

Newsletter of
The Black River Astronomical Society

Guidescope

Lorain County, Ohio
Website: blackriverastro.org

July 2017
Newsletter submissions: [Editor](#)

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- Wednesday, July 5, 7 p.m.: Regular meeting, Carlisle Visitors Center
Program: "Major Historical Astronomical Discoveries" by Denny Bodzash
 - Sunday, July 9, 1-4 p.m.: Solar observing, Sandy Ridge Reservation
 - Thursday, July 13, 7 p.m.: Board meeting, Blue Sky Restaurant, Amherst
 - Friday, July 14, 10 p.m. - midnight (cloud backup July 15): Public observing, Nielsen Observatory
 - Friday, July 21, 10 p.m. - midnight (cloud backup July 22): Public observing, Nielsen Observatory

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Visit Our Website!

Explore if you will the informative BRAS [website](#) and all its interesting, timely [links](#), and join the interactive members-only [BRAS Forum](#) to better keep in touch.

Board Summary, June 15, 2017

The June meeting was called to order with 9 Directors present. The minutes of the May meeting were read and approved as was the Treasurer's report. Committee reports followed with the *Guidescope* editor, Bill Ruth, stating that there were no issues with the newsletter. There was a brief discussion about sending copies to guests who provide their email addresses to us via the sign-in book. It was decided to put them on the mailing list, and to add a comment to each issue to the effect that people no longer wishing to receive the newsletter are requested to so inform the editor via email. This way, people who want to receive the *Guidescope* will do so, but people who are not interested will hopefully let us know. The website committee report was next with Dan Walker commenting in the absence of Lee Lumpkin who is dealing with a family emergency. The website is running with no issues. Under Instrumentation, John Reising had two things to report. First, the new 16" telescope is secure and he has a way to test the mirror to be sure it is what we expect it to be. Once that is done, John can continue to finish the construction of the telescope. John also reported that he has plans to refurbish the club's 13" Odyssey, but he will need a tube that is 48" long and the correct diameter. The largest diameter Sonotube that we can purchase at a big box store is 12" in diameter and thus not big enough. Larger diameter tubes can be ordered, but would be 12 feet long, which is far longer than we need. We are exploring other sources including aluminum tubes. Under OTAA, the Board was reminded that the CVAS OTAA is Saturday, June 17th which unfortunately conflicted with our Solstice Festival event and also another social event to which most of the Directors were invited. The Metro Parks Liaison had no report.

Programming is set as follows:

July	Denny Bodzash	Major Historical Astronomical Discoveries
August	Tim Kreja	The History of the Refracting Telescope
September	Members	Total Solar Eclipse photos
October	Elections, and a short video	
November	OPEN	
December	Annual Christmas Party and potluck at Amherst Beaver Creek	

Old Business came next with the first item being the annual Solstice Festival. This year the Solstice Festival is not going to be an actual festival as we had held in years past. It was decided that it was too much for a small club like ours, so we have eliminated the food trucks, live entertainment and art displays, in favor of simply concentrating on solar observing. It was announced that the event would go on even if it was cloudy, but would be cancelled if it rained. A definite commitment was made by Jeff Walsh, Greg Zmina, Tim Kreja, Micky Hasbrook, Dan Walker, Steve Schauer and Jim Cunningham, and it was hoped that other club members would also attend. Club information would be passed out and information about the sun and the upcoming solar eclipse would be disseminated.

The second item of Old Business was the field trip that the Avon Lake Parks and Rec. Department was making to the observatory on Wednesday the 21st to learn about the solstice. We are expecting 26 kids, two Parks and Rec. employees, and a few parents to attend. We will break the students into three groups, with one group outside the observatory on one side learning about the solstice and the August eclipse, a second group inside the Nielsen getting a tour of the observatory and the telescopes, and the third group outside the building on the other side, doing solar observing. At the end we will donate solar glasses to be given to the kids' parents as they come to pick them up. They will also receive a handout about the eclipse and how to observe safely. Dave Lengyel, Jeff Walsh, Len Jezior, Dan Walker, Mickey Hasbrook, and Steve Schauer have volunteered to help out.

New Business came next, with the first item a discussion of distributing a club roster to members. Dan Walker will collect the names and contact information of paid-up members and create a roster that will be easy to disseminate using email. This roster will only go to members as they gave us their preferences about what information to share on their membership forms. Some members would prefer that no information be shared, while others don't mind addresses and telephone numbers shared, but would prefer not to share their email etc. We will, of course, follow everyone's preferences. The second item of new business was a suggestion by a member that we consider inviting a speaker from the Flat Earth Society to speak at a meeting to discuss the rationale behind their beliefs. After a brief discussion, there was no interest in so doing. The third item of business was a discussion of our dues structure with an eye toward simplifying things. A few years ago we added a dues category called "Family Membership" to make it cheaper for entire families to join. Since that was done, only two families took advantage of that category, both of whom are no longer members. It was decided to leave our Regular Membership dues at \$25.00 where they have been for many years. We will, however, raise dues for Retired members and Student members from \$7.00 a year to \$10.00 a year, simply to make it easier for the Treasurer. The Family Membership will be eliminated. These changes will go into effect this October when dues are payable. The last item of New Business was the happy job of voting on accepting the membership application of Leslie McGinnis. Welcome, Leslie! We are delighted that you've joined us!

Dates were set, and the meeting was adjourned.

~Steve Schauer

For Sale

Free to a good home: For Meade (ex; ETX, LX Models) or other scopes using 495/497 Autostar handset controller...

Rikaline 6010 GPS Receiver. Accurate time/location within 1~10 meters. "New, never used" condition includes PC #505 DB9 serial connector adapter & cable with full documentation. Asking \$0. (Free)

Contact Len Jezior, lmj@lakecareer.com or voice/text (440) 453-8444.

Dobsonian Telescope (NIB)

ORION SkyQuest XT8 Classic Cat.# 8945 8" Dobsonian , New In original Box, Large Side Bearings for a Dob Setup, No Base or rings included. OTA only, includes Manual and Starry Night Software. 1200mm F.L., 203 mm Primary Mirror Diameter, Focal Ratio f/5.9, Crayford Focuser accepts 2" and 1.25" E.P.'s. Tube weight 20.3 lbs., Tube Length 46.5 ".

PRICE \$245.00. Contact information: Greg Zmina Home # 440-355-4570, or see me at any BRAS Meeting.

University Optics 16mm Konig II - a true "zebra" classic eyepiece. \$55

Burgess/TMB 6mm Planetary - \$45

Burgess/TMB 3.2mm Planetary- \$45

8mm Paradigm - very nice! - \$45

I also have a Meade 277 Comet Seeker. This is a cute 60mm f/5 scope which comes complete with a surprisingly functional table top mount. This comes with case, diagonal and eyepiece. Google this to find out more. Nice classic quick look scope (and also a collectible) which also mounts well on a photo tripod. -\$60.

Contact me at 440-326-1985 or ljano@windstream.net or... catch me at a meeting.

Iridium Flare and Jupiter 6/19/17

~Dave Lengyel



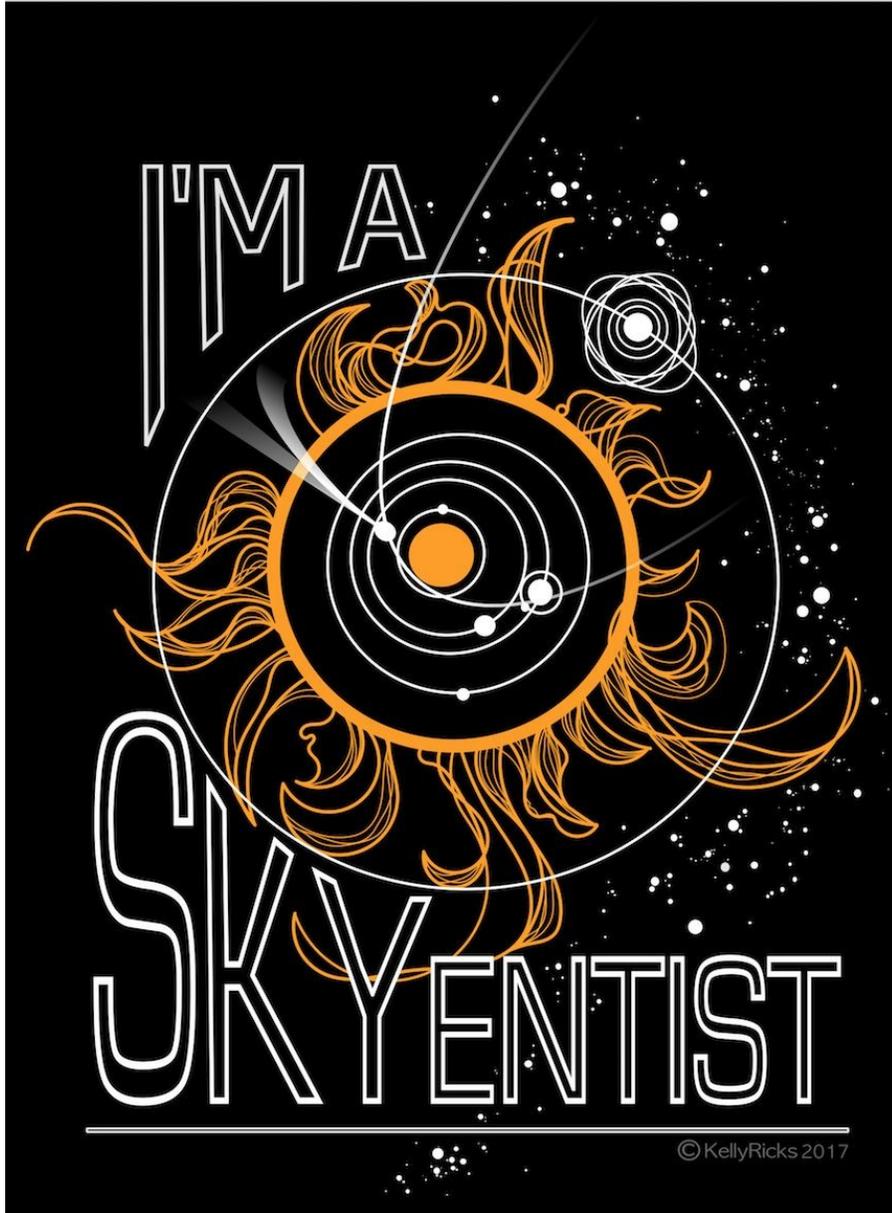
(Charts via Len Jezior)



GREEK ALPHABET

A	α	alpha
B	β	beta
Γ	γ	gamma
Δ	δ	delta
Ε	ε	epsilon
Z	ζ	zeta
H	η	eta
Θ	θ	theta
I	ι	iota
K	κ	kappa
Λ	λ	lambda
M	μ	mu
N	ν	nu
Ξ	ξ	xi
Ο	ο	omicron
Π	π	pi
Ρ	ρ	rho
Σ	σς	sigma
Τ	τ	tau
Υ	υ	upsilon
Φ	φ	phi
Χ	χ	chi
Ψ	ψ	psi
Ω	ω	omega

I'm Not A Stargazer...



~Kelly Ricks

Deep-Sky Objects for July

Objects for Binoculars							
RA	Dec	Number	Mag(s)	Size/Sep.	PA	Const.	Type of Object
18 ^h 03.8 ^m	-24° 23'	M8	6.8v (oc)	45"x30'		Sgr	"Lagoon Neb." + Cl. 113+
18 ^h 16.5 ^m	-18° 50'	M24	4.6v	95'		Sgr	Sm Sagittarius Star Cloud
18 ^h 36.4 ^m	-23° 54'	M22	5.1v	24'		Sgr	Globular Cluster
19 ^h 59.6 ^m	+22° 43'	M27	7.3v	348"		Vul	Pl. Neb. "Dumbbell Nebula"
18 ^h 51.1 ^m	-06° 16'	M11	5.8v	13'		Sct	"Wild Duck Cluster"
19 ^h 25.4 ^m	+20° 11'	Cr399	3.6v	60'		Vul	Cluster 40+, "Coathanger"
Objects for Small Telescopes (2-6 inch)							
RA	Dec	Number	Mag(s)	Size/Sep.	PA	Const.	Type of Object
18 ^h 02.3 ^m	-23° 02'	M20	-	20"x20'		Sgr	"Trifid Nebula"
18 ^h 20.8 ^m	-16° 11'	M17	Cl. 6.0v	20"x15'		Sgr	"Omega/Swan Neb" + Cl.
18 ^h 24.5 ^m	-24° 52'	M28	6.8v	11.2'		Sgr	Globular Cluster
18 ^h 45.2 ^m	-09° 24'	M26	8.0v	14'		Sct	Open Cluster 30+
18 ^h 53.6 ^m	+33° 02'	M57	8.8v	>71"		Lyr	Pl. Neb. "Ring Nebula"
19 ^h 08.8 ^m	+34° 46'	E2470	6.6, 8.6	13.4"	272°	Lyr	Double Star, w/E2474
19 ^h 09.1 ^m	+34° 36'	E2474	6.7, 8.8	16.2"	262°	Lyr	Double Star, w/E2470
Objects for Medium Telescopes (8-14 inch)							
RA	Dec	Number	Mag(s)	Size/Sep.	PA	Const.	Type of Object
16 ^h 04.4 ^m	-11° 22'	Xi Sco	4.8, 7.3	7.6"	51°	Sco	Double Star, w/E1999
18 ^h 18.4 ^m	-18° 25'	NGC 6603	11.1p	5.0'		Sgr	Open Cl. In M24
18 ^h 44.3 ^m	+39° 40'	Epsilon Lyr	5.1, 5.4	2.6", 2.3"		Lyr	"Double, Double" Star
19 ^h 16.6 ^m	+30° 11'	M56	8.3v	7.1'		Lyr	Globular Cluster
19 ^h 18.4 ^m	+06° 33'	NGC 6781	11.4v	109"		Aql	Planetary Nebula
19 ^h 52.2 ^m	+29° 25'	NGC 6834	7.8v	5'		Vul	Open Cluster 50+
19 ^h 53.8 ^m	+18° 47'	M71	8.0v	7.2'		Sge	Globular Cluster
Objects for Larger Telescopes (16-inch & larger) Challenge Objects							
RA	Dec	Number	Mag(s)	Size/Sep.	PA	Const.	Type of Object
18 ^h 17.6 ^m	+36° 46'	Eta Sgr	3.2, 7.8	3.6"	105°	Sgr	Double Star
18 ^h 31.4 ^m	+32° 21'	M69	7.6v	7.1'		Sgr	Globular Cluster
18 ^h 42.2 ^m	-32° 18'	M70	8.0v	7.8'		Sgr	Globular Cluster
18 ^h 55.1 ^m	-30° 29'	M54	7.6v	9.1'		Sgr	Globular Cluster
19 ^h 14.6 ^m	-02° 42'	NGC 6772	12.7v	>62"		Aql	Planetary Nebula
19 ^h 30.6 ^m	+20° 16'	NGC 6802	8.8v	3.2'		Vul	Open Cluster 50+
19 ^h 31.6 ^m	-09° 13'	NGC 6804	12.0v	31"x66"		Aql	Planetary Nebula

Print and use the [Deep-Sky Interest Group - Observation Form](#) to record your observations.

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Moon and Venus, Summer Solstice morning 2017 (Venus top center). ~Bill Ruth

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