

THE OBSERVER



Messier 63: The Sunflower Galaxy
APOD April 17, 2008, Credit & Copyright Tony Hallas

From the Desk of the President by Tom Mozdzen

One of our most exciting events of the year is happening one hour before the April 20th Meeting: The auction and sale of dozens of used telescopes, eyepieces, and accessories acquired by EVAC over the past couple of years. More details are available further down in this newsletter.

To top off the April Meeting, our featured speaker is Dennis Zaritsky, who is the Deputy Director of the Steward Observatory at the University of Arizona. He will talk about the Halo of Hydrogen gas surrounding all galaxies.

The Facebook page went live in March and over 60 people are friends of our FB site. Members are sharing some excellent examples of their photographic skills. We also highly encourage all members to sign up for the AZ-observing ([subscribe here](#)) and the EVAC-announce mailing lists ([subscribe here](#)).

Despite some pesky clouds, the Messier Marathon was held and people recorded quite a few objects. If you missed the Marathon, you can give it a try on your own in April where nearly all of the objects are still visible during the night.

UPCOMING EVENTS:

- EVAC Star Party - April 6*
- Public Star Party - April 13*
- EVAC Star Party - April 14*
- EVAC Monthly Meeting - April 20*
- Check out all of the upcoming club events in the Calendars on page 10.*

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From the Desk of the President

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Public outreach led by Lynn Young continues to attract requests from schools year round. Please see the EVAC calendar and if you can, please volunteer to help out one or more of the nights.

I will be giving the featured talk at SAC this month (April 6th), describing the research on the [Epoch of Reionization](#) I performed at ASU for my PhD thesis over the past

6 yrs. I will also include the highlights of our recent paper in [Nature](#) concerning the possible detection of a signal from this epoch.

Until next month,

Tom Mozdzen

EVAC April 2018 Auction and Estate Sale

Please join us on Friday, April 20, at 6.30 pm, one hour before the regular meeting of the East Valley Astronomy Club for a used equipment auction of items donated to EVAC over the last couple of years. The meeting will be held at the Gilbert Southeast Regional Library, 775 N. Greenfield Road, Gilbert, Az. The library is located at the Southeast corner of Greenfield and Guadalupe roads. Please enter through the side door on the northeast side. At 6:30 there will be an auction of the larger items (can be seen on the EVAC website). After that will be a general sale of small telescopes, eyepieces, and acces-

sories, as well as over 250 books and magazines from the estate of Gerry Rattley. The sale is open to EVAC members and non-members.

Minimum bid prices have been set by the EVAC Board. Items that do not receive a bid higher than the reserve will remain unsold. All items are sold "as is", and need to be removed that evening. Bring cash or check (we may ask for ID). The items to be auctioned can be seen on the EVAC website: [EVAC Auction](#)

EVAC General Meeting Notes for March 2018

Tom Mozdzen started the meeting by discussing new EVAC Facebook page. To join, go to the East Valley Astronomy Page and request to join. You will be asked three simple questions in order to submit a request to join. Here is the Facebook link: [FB Link](#)

Tom also conducted an informal survey to determine how many people use Facebook, and how many star parties a year each member attends.

Wayne Thomas presented awards to Lynn Young, he obtained Outreach Level (5 hours) and Stellar Level (60+ hours) for his school star parties. Congratulations to Lynn!

Our Treasurer, Lana Young, provided an update on EVAC's finances. Lynn Young discussed the upcoming school visits. He reiterated his need for additional volunteers to help him with these events. Please come out and help even if you don't have a scope.

Ted Blank discussed the upcoming Fountain Hills Dark Sky Festival, which will be held at the Fountain Hills Community Center on April 21st, starting at 2 p.m. This festi-

val is in recognition of Fountain Hills being designated an International Dark Sky Community by the International Dark Sky Association (IDA). More information can be found at this link: [Fountain Hills Darksky](#)

Robert Buchheim discussed the upcoming Society for Astronomical Sciences Symposium. It is being held in Ontario, CA and running from June 14th to June 16th. Please go to www.socastrosci.org to learn more.

The main presenter of the night was Tom Polakis. Topic: CCD Photometry from Inside The Light Dome. Tom gave an excellent presentation on the valuable work he is doing for astronomy while living in light polluted Tempe. Tom has been recognized in numerous journals for his photometry work.

The next EVAC meeting is on April 20th – The presenter will be Dennis Zaritsky, Professor and Deputy Director, Steward Observatory and his topic will be "Halo of Hydrogen gas surrounding all galaxies".

We look forward to seeing everyone!

Let's Party for April

Astronomical objects for public (and private) star parties, arranged by type.

by *Fulton Wright, Jr. Prescott Astronomy Club*

Flashy, deep-sky objects, visible in the middle of the month, at the end of astronomical twilight, 7:10 PM this month, (when it really gets dark). This list customized for Prescott, Arizona, should work well anywhere in the state, and be usable anywhere in the old 48 states.

Double Stars (2 or 3 stars, close together)

*name: Sigma Orionis (triple star) (another double nearby)
--alt name: SAO 132406
--Magnitudes: 3.8, 6.3, 6.6
--separation: 13 arc-seconds, 42 arc-seconds
--R.A.: 5hrs 39min
--Dec.: -2deg 36'

*name: Alpha Gemini (bright)
--alt name: Castor, SAO 60198
--magnitudes: 1.6 & 3.0
--separation: 5 arc-seconds
--R.A.: 7hr 35min
--Dec.: +31deg 53'

*name: Gamma Leonis
--alt name: Algiba, SAO 81298
--magnitudes: 2.2 & 3.6
--separation: 5 arc-seconds
--R.A.: 10hr 20min
--Dec.: +19deg 51'

*name: Gamma Virginis
--alt name: Porimma, SAO 138917
--magnitudes: 3.5 & 3.5
--separation: 3 arc-seconds
--R.A.: 12hr 42min
--Dec.: -1deg 27'

Open Clusters (about 50 bright stars)

*name: M 36
--alt name: Pinwheel Cluster, NGC 1960
--magnitude: 6.0
--size: 10 arc-minutes
--R.A.: 5hr 36min
--Dec.: +34deg 08'

*name: M 37
--alt name: NGC 2099
--magnitude: 5.6
--size: 14 arc-minutes
--R.A.: 5hr 52min
--Dec.: +32deg 33'

*name: M 44 (binocular object)
--alt name: Beehive Cluster, Praesepe, NGC 2632
--magnitude: 3.1
--size: 70 arc-minutes
--R.A.: 8hr 40min
--Dec.: +19deg 40'

Globular Clusters (about 200,000 dim stars)

*name: M 3 (low but rising)
--alt name: NGC 5272
--magnitude: 6.2
--size: 18 arc-minutes
--R.A.: 13hrs 42min
--Dec.: +28deg 23'

*name: M 53
--alt name: NGC 5024
--magnitude: 7.6
--size: 13 arc-minutes
--R.A.: 13hr 13min
--Dec.: +18deg 10'

*name: M 68
--alt name: NGC 4590
--magnitude: 7.8
--size: 11 arc-minutes
--R.A.: 12hr 39min
--Dec.: -26deg 45'

Galaxies (about 200,000,000 very dim and distant stars)

*name: M 82 and M 81
--alt name: Bode's nebula, NGC 3031 and NGC 3034
--magnitudes: 6.8 and 8.1
--size: 21 x 11, 11 x 5 arc-minutes, 37 arc-minutes apart
--R.A.: 9hrs 55min
--Dec.: +69deg 23'

Let's Party for April

Continued from page 3

Galaxies (about 200,000,000 very dim and distant stars)

*name: M 94

--alt name: NGC 4736

--magnitude: 8.0

--size: 8 x 7 arc-minutes

--R.A.: 12hrs 51min

--Dec.: +41deg 07'

*name: M 51 (low but rising)

--alt name: Whirlpool Galaxy, NGC 5194

--magnitude: 8.0

--size: 14 x 12 arc-minutes

--R.A.: 13hrs 30min

--Dec.: +47deg 12'

*name: M 65, M 66, NGC 3628 (trio of galaxies)

--alt name: NGC 3623, NGC 3627, ----

--magnitudes: 9.2, 9.0, 9.2

--sizes: 8 x 2, 10 x 5, 11 x 3 arc-minutes

--(in a field of 40 arc-minutes)

--R.A.: 11hr 20min

--Dec.: +13deg 20'

Diffuse Nebulae (gas and dust lit by a nearby star)

*name: M 42

--alt name: Orion Nebula

--magnitude: ----

--size: 85 x 60 arc-minutes

--R.A.: 5hrs 35min

--Dec.: -5deg 27'

*name: NGC 2261 (small and dim)

--alt name: Hubble's Variable Nebula

--magnitude: 9

--size: 4 x 2 arc-minutes

--R.A.: 6hrs 39min

--Dec.: +8deg 45'

*name: NGC 2024 (put bright star out of field)

--alt name: Flame Nebula

--magnitude: 10

--size: 8 x 7 arc-minutes

--R.A.: 5hrs 42min

--Dec.: -1deg 52'

*name: NGC 2467

--alt name: ----

--magnitude: ----

--size: 8 x 7 arc-minutes

--R.A.: 7hrs 52min

--Dec.: -26deg 28'

Planetary Nebulae (gas shell from exploding star, looks like Uranus in telescope)

*name: NGC 3242

--alt name: Ghost of Jupiter Nebula, Caldwell 59

--magnitude: 7.3

--size: 0.7 arc-minutes

--R.A.: 10hr 25min

--Dec.: -18deg 39'

*name: NGC 2392

--alt name: Eskimo Nebula

--magnitude: 9.2

--size: 0.8 arc-minutes

--R.A.: 7hrs 29min

--Dec.: +20deg 55'

*name: NGC 3132

--alt name: Eight-burst Nebula, Caldwell 74

--magnitude: 9.7

--size: 1.0 arc-minutes

--R.A.: 10hr 07min

--Dec.: -20deg 46'

Miscellaneous (Supernova Remnant)

Name: M 1

alt name: Crab Nebula

magnitude: 8.4

size: 6 arc-minutes

R.A.: 5hrs 34min

Dec.: 22deg 01'

Find Out What's Happening – Join EVAC-Announce List

If you would like to receive email announcements about EVAC meetings and activities please join the EVAC–Announce mailing list. Click on the link below to subscribe. Enter your full email address in the box titled User Options and press OK. You will receive a confirmation email. Your privacy is respected by EVAC and we will never sell your email address, or use it for non-club relevant solicitations. This mailing list is designed for communication from EVAC, and does not enable users to respond to the message. If you wish to contact club officers, please use the list on the Contact-Us tab. To subscribe to the EVAC – Announce mail group click: <http://www.freelists.org/list/evac-announce>. To unsubscribe use the same link, enter your email address and select Unsubscribe from the “Choose An Action” list. Another list that may be of interest is AZ-Observering. To subscribe click <http://www.freelists.org/list/az-observing>.

Looking for that perfect weekend activity?

Why not resolve to getting involved?

Contact Claude Haynes to join the staff at GRCO

Email: grco@evaconline.org

Classified Ads

For Sale: Celestron Advanced VX equatorial mountm excellent condition. Rarely used. Asking \$550.

Celestron StarSense AutoAlign system. Excellent condition. Like new. Asking \$200.

I am changing my observing setup so I am looking for a good home for this excellent equipment.

Email me for additional information.

Steve Platte: upuaut99@hotmail.com



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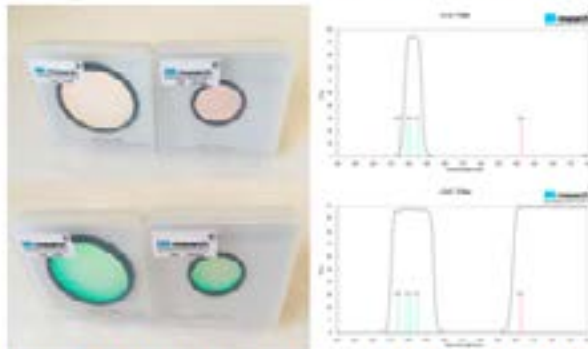
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Telescope
in
Arizona



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Classified Ads

I am selling my Stellarvue SV90T Carbon Fiber scope and moving to a FF astrograph. The scope is in like new condition optically, cosmetically and was purchased in 2013 at the AZ Science and Astronomy Expo from Vic. I know of no issues with the scope. The scope has a SV 2.5" R&P focuser and comes with mounting rings. Items included in the package are...

- SV90TCF-25 Scope w/ Rings \$1,449
- SV Field Flatteners for 2.5" Focuser \$249
- SV Padded Travel Case \$149
- TeleVue 0.8x FF/FR \$229

Total Cost New \$2,076.

ASKING \$1,250 000 Bank check or cash.

Jim Waters

jimwaters@cox.net



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Upcoming Meetings

April 20

May 18

June 15

July 20

August 17

September 21

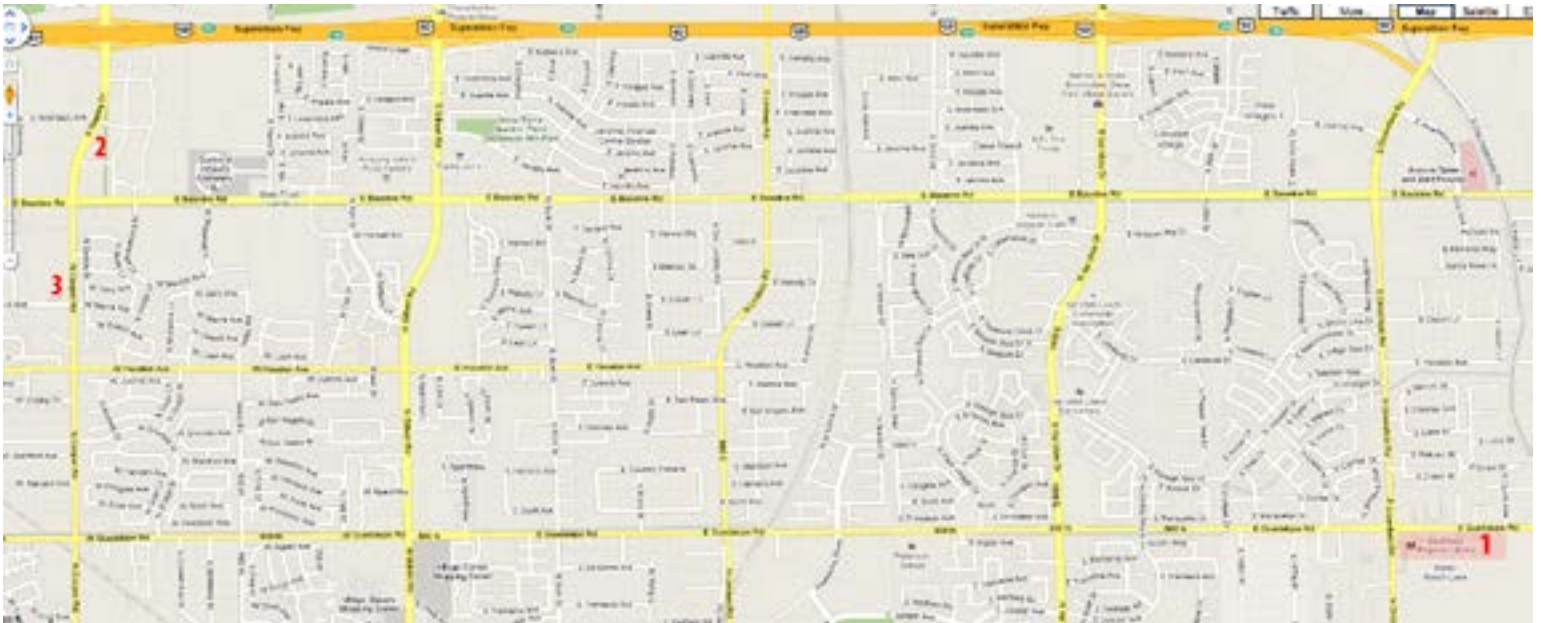
October 19

November 16

The monthly general meeting is your chance to find out what other club members are up to, learn about upcoming club events and listen to presentations by professional and well-known amateur astronomers.

Our meetings are held on the third Friday of each month at the Southeast Regional Library in Gilbert. The library is located at 775 N. Greenfield Road; on the southeast corner of Greenfield and Guadalupe Roads. Meetings begin at 7:30 pm.

Visitors are always welcome!



1 Southeast Regional Library
775 N. Greenfield Road
Gilbert, Az. 85234



APRIL 2017

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

APRIL 7 - EVAC Star Party

APRIL 9 - CGCC Star Party

APRIL 13 - PUBLIC Star Party

APRIL 14 - EVAC Star Party

APRIL 14 - Phoenix Zoo Night Camp

April 20 - EVAC Monthly Meeting

APRIL 21 - Fountain Hill Dark Sky Night

MAY 2018

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

May 5 - EVAC Star Party

May 11 - Public Star Party

May 12 - EVAC Star Party

May 18 - EVAC Monthly Meeting

East Valley Astronomy Club -- 2018 Membership Form

Please complete this form and return it to the club Treasurer at the next meeting or mail it to EVAC, PO Box 2202, Mesa, Az, 85214-2202. Please include a check or money order made payable to EVAC for the appropriate amount.

IMPORTANT: All memberships expire on December 31 of each year.

Select one of the following:

- New Member
 Renewal
 Change of Address

New Member Dues (dues are prorated, select according to the month you are joining the club):

- | | |
|---|---|
| <input type="checkbox"/> \$30.00 Individual January through March | <input type="checkbox"/> \$22.50 Individual April through June |
| <input type="checkbox"/> \$35.00 Family January through March | <input type="checkbox"/> \$26.25 Family April through June |
| <input type="checkbox"/> \$15.00 Individual July through September | <input type="checkbox"/> \$37.50 Individual October through December |
| <input type="checkbox"/> \$17.50 Family July through September | <input type="checkbox"/> \$43.75 Family October through December |
- Includes dues for the following year*

Renewal (current members only):

- \$30.00 Individual**
 \$35.00 Family

Name Badges:

- \$10.00** Each (including postage) Quantity: _____

Name to imprint: _____

Total amount enclosed:

Please make check or money order payable to EVAC

- Payment was remitted separately using PayPal
 Payment was remitted separately using my financial institution's online bill payment feature

Name:

Phone:

Address:

Email:

City, State, Zip:

Publish email address on website
 URL:

The Observer is the official publication of the East Valley Astronomy Club. It is published monthly and made available electronically as an Adobe PDF document the first week of the month.

- | | |
|--|---|
| <input type="checkbox"/> General Observing | <input type="checkbox"/> Cosmology |
| <input type="checkbox"/> Lunar Observing | <input type="checkbox"/> Telescope Making |
| <input type="checkbox"/> Planetary Observing | <input type="checkbox"/> Astrophotography |
| <input type="checkbox"/> Deep Sky Observing | <input type="checkbox"/> Other |

Would you be interested in attending a beginner's workshop? Yes No

How did you discover East Valley Astronomy Club?

PO Box 2202
Mesa, AZ 85214-2202
www.evaconline.org

All members are required to have a liability release form (waiver) on file. Please complete one and forward to the Treasurer with your membership application or renewal.

The Observer is the official publication of the East Valley Astronomy Club. It is published monthly and made available electronically as an Adobe PDF document the first week of the month. Please send your contributions, tips, suggestions and comments to the Editor at: news@evaonline.org. Contributions may be edited. The views and opinions expressed in this newsletter do not necessarily represent those of the East Valley Astronomy Club, the publisher or editor.

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Observatory Manager: Claude Haynes

East Valley Astronomy Club

PO Box 2202

Mesa, Az. 85214-2202

LAST QUARTER MOON ON APRIL 8 AT 03:17

NEW MOON ON APRIL 15 AT 21:57

FIRST QUARTER MOON ON APRIL 22 AT 17:46

FULL MOON ON APRIL 29 AT 20:58