



# THE OBSERVER



Sunrise from atop Haleakala Crater - Morgan J. Moran

## UPCOMING EVENTS:

- EVAC Riparian Star Party - Oct. 11<sup>th</sup>
- EVAC Monthly Meeting - Oct. 18<sup>th</sup>

For more details, and to see all of the upcoming club events, check out the [events page](#) on our website or the [Calendar](#) on Page 11.

## INSIDE THIS ISSUE:

### From the Desk of the President

by *Steve Bradshaw*

How time flies. It is hard to believe that this will be the tenth From the Desk of the President article that I have written since assuming the role of club president. I have a couple of topics for this month's article. The first topic is a thank you to all of you. The second topic is a request to all of you.

First, I want to say how thankful I am for all of you. You help to enhance my life. Let me explain. I have written before that I love to learn new things, and club meetings provide me with an opportunity to learn. It is not just the main speaker presentations either, but the member presentations as well. Thank you to those who have prepared and presented member presentations or perhaps even a main presentation. But why am I thankful for the rest of the membership? Because as mem-

bers you take the time to attend the club meetings and pay your dues. It is your attendance and dues that make having club meetings possible. Thank you.

Although I really enjoy learning new things, I enjoy the social interactions that the club provides even more. If you did not attend the club meetings, then these social interactions would not be possible. I am grateful that over the past few years many of you have become friends that I look forward to spending time with at club meetings, at GRCO, and at public star party events. Thank you.

I am also thankful that many of you offer your time as volunteers at GRCO. I have volunteered at GRCO for a few years now. During that time, I have

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# From the Desk of the President

by Steve Bradshaw

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I learned much about telescopes and the sky from my interactions with the other GRCO volunteers. We have some members with amazingly deep knowledge. They teach me and inspire me to learn more. More importantly, I have also come to look forward to nights spent socializing with the other GRCO volunteers and visitors. The GRCO volunteers are a great bunch of people and fun to hang out with. Thank you.

Thank you to those who help at the private star party events too. Once again, I derive both learning and social opportunities from these events. On the technical side of things, I get to see many distinct types of telescope set-ups and how they operate. Just this past week I learned some new things about the Celestron StarSense Auto-Align camera option while attending an event in Apache Junction. This is an example of the valuable advice and troubleshooting tips that I have gotten from other volunteers during these events. Just like my time at GRCO, I look forward to these private events and seeing the “regulars” who bring their telescopes and binoculars. Thank you.

I am also grateful for the big public star parties at the Hovatter Road observing site and for the smaller events at the Picketpost Trailhead observing site. If not for these parties, I might not know what it is like to look through a 25-inch Obsession or a 150mm triplet APO refractor. They offer incredible views. I saw my first globular cluster with resolved central stars at an All-AZ Star Party. And again, there are the social opportunities that these star parties provide. Thank you.

Lastly, I am also thankful that you have been patient and supportive of me these last nine months as I have learned how to perform my responsibilities as a first-time president. The former leadership members have offered wonderful support as well. Thank you all.

Let us move on to the second topic where I make a request.

As you have seen, the club is important to me for both the learning and social opportunities that it provides. I hope that the club is also important to you for the same reasons. If it is, then I hope a few of you will decide to support the club and help to keep it going in 2025 by getting more involved. Attending a Friday meeting once a month is important and great, but the club depends on a smaller number of people helping in other ways.

Right now, we have an urgent need for two new board members and two new club officers—vice president and secretary—for 2025. Please consider offering 6-8 hours per month to help your fellow club members. This monthly time estimate includes general club meetings, online board meetings, and individual job role responsibilities. The club does not run itself. Each year it takes a handful of people who decide to put a stake in the ground and say, “This year I am going to help out.” We are all adults and know from life experience that if everyone waits for someone else to help, then no one helps. So, if you permit me to resurrect an old Nike advertising slogan; “Just do it” and offer your help today.

Does helping take a bit of your time and effort? Sure. But it is not a large amount of time per month and there is a sense of satisfaction in stepping up and giving your time to serve others. There are potential rewards for service too. Service enables more frequent contact with other club members, which in turn provides fertile ground for developing more and deeper friendships with other club members.

Are you nervous about stepping up? Don't be. Just jump in and those members who have been in past leadership positions will help you. If you decide to throw your hat in the ring and volunteer, email me at [president@evaconline.org](mailto:president@evaconline.org). Together, I hope that we can make 2025 another awesome year for the East Valley Astronomy Club.

Until next month enjoy looking up and learning,  
Steve

**New Moon on October 2<sup>nd</sup> at 11:49 AM**

**First Quarter Moon on October 10<sup>th</sup> at 11:55 AM**

**Full Moon (Hunter's Moon) on October 17<sup>th</sup> at 4:26 AM**

**Third Quarter Moon on October 24<sup>th</sup> at 1:03 AM**

# EVAC Meeting Minutes for September 20, 2024 at 7:00 PM AZ Time

by James Yoder

YouTube: Many past EVAC monthly meetings can be viewed on our [EVAC Meetings YouTube Channel](#) or select this [link](#) to go directly to last month's meeting recording.

## Welcome

EVAC President Steve Bradshaw welcomed club members to the meeting and reviewed the agenda. Two new visitors were recognized and welcomed.

## Announcements

Steve Bradshaw reviewed the following club business items:

- Star Parties
  - » All-AZ Star Party – is November 1<sup>st</sup> & 2<sup>nd</sup>
    - Hovatter observing site off I-10 towards Quartzsite
- EVAC Website Highlights (<http://eastvalleyastronomy.org/>)
  - » Joining a distribution list for EVAC announcements can be done [here](#).
  - » Joining or renewing membership can be accomplished online [here](#).
  - » [EVAC Calendar](#) shows what events and meetings are slated for EVAC members.
  - » Past newsletters can be accessed [here](#).
  - » Used equipment for sale can be viewed [here](#).
  - » Equipment that can be rented by members can be viewed [here](#).
  - » Gilbert Rotary Centennial Observatory (GRCO)
    - Friday and Saturday (weather permitting) dusk to 9:30 PM
    - 2nd Friday of every month is the public star party with members telescopes.
- The following positions will be vacant, please contact Steve ([president@evaonline.org](mailto:president@evaonline.org)) if you are interested in any one of these positions:

- » Vice President
- » Secretary
- » Board Member At Large (2)
- Two Star Parties coming up:
  - » Hyman Rim Ranch from 09/28 – 10/01 (this event is full and closed)
  - » All-AZ Star Party - November 1<sup>st</sup> & 2<sup>nd</sup>
- Raffle: Two \$25 gift certificates were given out.

## Member Presentation: Summer Observational Astrophysics Retreat (Bob Buchheim)

This presentation was about the Mount Wilson Observatory Summer Observational Astrophysics Retreat. This is a program for graduate students. A brief history on the observatory and some information on the research performed at the observatory.

## Member Presentation: Mini Universe Simulation (Ted Berenyi)

Ted demonstrated a software program he developed based on Newton's gravitational equation. The demonstration shows how bodies interact with each other.

## Feature Presenter: Bringing the Sky to Life (Dr. Alan Strauss)

Doctor Strauss presented details on the NSF-DOE Vera C. Rubin Observatory that is nearing completion. The mission of this observatory is to perform a visible survey of the southern sky continuously over a ten-year period. During this time, they anticipate cataloging over six million solar system objects, seventeen billion stars and twenty billion galaxies. These surveys will be made available to the public. A large part of the success of this project will be dependent upon citizen science.

## The Backyard Astronomer

by Bill Dellenges

### Other Mysterious Star Names

Last month in my article on Delphinus, I discussed the strange case of two star names in that constellation, Sua-locin and Rotanev. In the late sixties, three more new star names began showing up in some star atlases and star maps. They were Regor (Gamma Velorum), Dnoces (Iota Ursae Majoris) and Navi (Gamma Cassiopeiae).

They were a curveball thrown at sky lore aficionados who

had never seen them prior to that period. Why did they suddenly appear in print? Who was responsible for this transgression? Worse, did someone "buy" these stars to get their names associated with them (a fad these days. Google "buy a star")? In the mid-sixties the Apollo 1 crew needed to practice navigation using stars in the event the ship's navigational instruments failed. The crew was comprised of **Roger** B. Chaffee, Edward H. White **II**, and Virgil **Ivan** Grissom. The three astronauts needed to become familiar with the thirty-seven stars. Unknown to the rest

# The Backyard Astronomer

by *Bill Dellinges*

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of the crew (or NASA), Grissom, along with Tony Jenzano, planetarium director of Morehead Planetarium in Chapel Hill, North Carolina, had surreptitiously added three stars to the list (apparently on a lark): Regor was actually Rog-er spelled backwards, Dnoces was second spelled backwards, and Navi was Ivan spelled backwards.

While you may find these star names occasionally used in books and charts, the International Astronomical Union (I.A.U.) does not recognize them as official star names. For more detail concerning this heinous conspiracy, refer to: Sky and Telescope articles (actually columns, three and one page long respectively) – Dnoces, Navi, and Regor, *Rambling Through the Skies* by E. C. Krupp, S&T October 1994, page 63 and *Star Names New and Old, Guide to the Evening Sky*, by Fred Schaaf, S&T April 2003, page 90.

**Note to my readers:** This is the 250th article I have written for EVAC (243 as the Backyard Astronomer since 1998). Most years I produced one a month. In the interest of having a little more time for myself I have decided to “retire” the Backyard Astronomer (B.A.) as a monthly feature in the EVAC newsletter. I may still submit an occasional B.A. piece from time to time when a subject dear to my heart percolates up from the catacombs of my mind. Meanwhile, your kind editor and I have agreed to use, as needed, previous columns of the B.A. in this newsletter. So, do not let your guard down, you may not have seen the last of me! Considering my humble writing skills, I think I have been a lucky guy to have astronomy articles printed in this auspicious organization these past 29 years (Yikes, almost one Saturn year!).

## What’s Up - Some Astronomical Events of Note for October 2024

by *James Yoder*

**What’s Up?** – Here we make note of some interesting astronomical occurrences for the month that are visible from the Phoenix Metro area.

Events we are on the lookout for include:

- [Transits](#) – When a celestial body passes directly between a larger body and the observer. For example when one of the inner planets such as Venus passes in front of the Sun ([image](#)).
- [Eclipses](#) – Specifically we are focused on [Lunar Eclipses](#) (where the Earth passes between the Sun and the Moon) and [Solar Eclipses](#) (where the Moon passes between the Sun and the Earth).
- [Comets](#) – For the comets we are focused on bright comets ([image1](#), [image2](#)) or ones that may have a near miss with other astronomical objects such as globular clusters, planets, nebula, etc. ([image](#)).
- Planet Activity – [Oppositions](#), [Conjunctions](#) ([image1](#)) and [Occultations](#) ([image2](#)) of note that may be an opportunity for observation or photography. For Jupiter, we also note when multiple moon shadow transits are visible.
- Visually Interesting astronomical alignments such as Moon & planets arrangement in the morning or evening sky ([image1](#)).

**WARNING!!** – Any event associated with viewing the Sun directly will require the use of a solar filter.

Equipment Requirements are denoted as follows:

- NE – **N**aked **E**ye event, no equipment needed to appreciate this.
- BI – A decent pair of **B**inoculars are recommended.
- CT – **C**amera on a **T**ripod can be used to capture this event.
- TS – **T**elescope is required to view this event.

# What's Up - Some Astronomical Events of Note for October 2024

by James Yoder

Continued from page 4

| Date  | Event           | Time                 | Equipment      | Images | Ref                  | Comments  |
|-------|-----------------|----------------------|----------------|--------|----------------------|---|
| 10/02 | New Moon        | All Night            | N/A            |        |                      |   |
| 10/12 | Comet C/2023 A3 | Shortly after Sunset | NE, BI, CT     |        | <a href="#">1, 2</a> | The comet will reach its closest approach to Earth, passing roughly forty-four million miles away. Observers in the Northern Hemisphere will have their best chance to see it after sunset. At this point, the comet will be in the constellation Ophiuchus, located above the western horizon. Current estimates are that the comet could reach magnitude -1.6 on this date. |
| 10/17 | Full Moon       | All Night            | NE, BI, CT, TS |        |                      | Hunter's Moon: <a href="#">Naming full moons</a> is silly, but it makes the news a lot of times.  |

These events and others throughout the year can be viewed on my webpage [here](#), Happy hunting!

## Deep Sky Imaging Target Highlights for October 2024

by James Yoder

The [average low temperature](#) for October in the Phoenix metro area is 65° F. October 2<sup>nd</sup> is a new moon with astronomical dusk at 07:32 PM and astronomical dawn at 05:00 AM, giving us nine hours and 28 minutes of imaging time on that night.

In this month's list there are over 119 object/configuration combinations provided of just about every class of deep sky object including six globular clusters, twenty-four planetary nebulas, forty-one nebula, eight dark nebula, fourteen open clusters and twenty-six galaxies/galaxy clusters.

**Bright Moon Targets (Moon)** – These are small targets that have a high surface brightness, these would be globular clusters and planetary nebula, that with appropriate narrowband filters can be imaged even in a near full moon situation.

The Prospective Imaging Objects Guide ([Download PDF](#)) covers objects that reach their highest point in the sky and crosses the meridian (aka transit) sometime between astronomical dusk to dawn. We will be highlighting objects that transit roughly between 10 PM and 2 AM when possible. This ensures maximum imaging time over the month.

Happy Hunting!

# Deep Sky Imaging Target Highlights for October 2024

by James Yoder

Continued from page 5

## Some Highlighted Targets (Most of these objects were imaged in Chandler)

| Configuration               | Page | Object(s)                        | Type                            | ImageLink                      |
|-----------------------------|------|----------------------------------|---------------------------------|--------------------------------|
| <b>Hyperstar</b>            | 25   | Cave Nebula (SH 2-155)           | Bright Nebula                   | <a href="#">468 min</a>        |
| <b>Hyperstar</b>            | 26   | Lobster Claw & Bubble (SH 2-157) | Diffuse Nebula                  | <a href="#">258 min</a>        |
| <b>Hyperstar</b>            | 33   | Andromeda Galaxy (M-31)          | Galaxy                          | <a href="#">2,072 min</a>      |
| <b>Focal Reducer</b>        | 32   | NGC 147 & NGC 185                | Galaxy Pair                     | <a href="#">Mosaic 505 min</a> |
| <b>Focal Reducer</b>        | 34   | Skull and Galaxies (NGC-246)     | Planetary Nebula and 2 Galaxies | <a href="#">190 min</a>        |
| <b>Primary Focus</b>        | 26   | NGC-7479                         | Galaxy                          | <a href="#">230 min</a>        |
| <b>Primary Focus</b>        | 25   | Wizard Nebula (SH 2-142)         | Diffuse Nebula                  | <a href="#">265 min</a>        |
| <b>Primary Focus (Moon)</b> | 41   | Little Dumbbell Nebula (M-76)    | Planetary Nebula                | <a href="#">240 min</a>        |

### Resources:

- [ArtCentrics.com](#) – [October Potential Targets Guide](#) (PDF download)
- [Telescopius](#) – Lookup objects, plan imaging session.
- [Field of View Calculator](#) – Test different telescope, camera & eyepiece combinations.
- [Astrometry.net](#) – Solve images captured by your system. Get image RA/DEC, pixel scale, image size, and orientation of the image you have taken.

## EVAC Outreach Events

by Jake LeAlcala

### October Outreach Events:

- October 2<sup>nd</sup> – 7:00 PM – Apache Junction Multi-Generational Center
- October 11<sup>th</sup> – 7:00 PM – 2<sup>nd</sup> Friday Star Party – Gilbert Rotary Centennial Observatory
- October 17<sup>th</sup> – 6:30 PM – Leading Edge Academy Star Party
- October 29<sup>th</sup> – 7:00 PM – Chandler Gilbert Community College Star Party

Details can be found on the EVAC website - [www.evaconline.org/events-meetings](http://www.evaconline.org/events-meetings). Click on the calendar entry for location and times. Contact [Jake LeAlcala](#), (EVAC's Events Coordinator), if you can volunteer at an event. It is helpful to know who is coming so we can tell you where the observing field is located and how to gain access.

## Used Equipment For Sale at Great Prices

The East Valley Astronomy Club (EVAC) has used astronomy equipment for sale. Please note that equipment sales are “**as is**” and are “**pick-up only**”.

For more details and to answer any questions, contact the EVAC Property Director, James Yoder ([properties@evaonline.org](mailto:properties@evaonline.org)) or visit the EVAC Sales webpage [HERE](#). This page includes a brief description of the items, photos and reference materials (e.g. users manuals, etc.).

EVAC Equipment being offered for sale this month:

- **Celestron 8SE Schmidt-Cassegrain GoTo Telescope** in fair condition (Sale Price = \$500)
- **TeleVue/Coronado 79mm Refractor Telescope** in good condition (Sale Price = \$1,400)

## EVAC Equipment Rental Program

The East Valley Astronomy Club (EVAC) Is introducing a rental program for EVAC Members. Details on terms and equipment can be found on the [EVAC Rental page](#). Each item below rents for \$25/week for up to 4 weeks. Currently the following items are available for rent:

- **Celestron C-8 with Nexstar GoTo Mount** - Everything you need to begin exploring the night sky.
- **ZWO Seestar S50 All-in-One Smart Telescope** - Everything you need to image the Sun, Moon and some bright, deep-sky objects. Extremely user friendly.
- **Celestron 10" Dobsonian Telescope** - Everything you need to begin exploring the sky.
- **Visual Filters for Deep Sky Objects** - 15 different filters to try before you buy.
- **Imaging Kit for Planetary & Moon Photography** - Everything you need to capture and process images except the telescope.

Telescopes come with all equipment necessary for observation (e.g. eyepieces, finder scope, power supply, etc.)

Contact the EVAC Property Director, James Yoder, at [properties@evaonline.org](mailto:properties@evaonline.org) for more details and to answer any questions.

## Non-EVAC Equipment for Sale

This is mostly member equipment for sale. EVAC is not responsible and does not endorse any of this equipment. Visit the [sales page](#) for more details and contact information.

Bill Dillenges Equipment for Sale:

- Swarovski 8x50 SLC Binoculars (roof prism) with original box, shoulder bag, tripod adapter and Thousand Oaks solar filters - \$800.

David Hopper Equipment for Sale:

- Celestron C90 Spotting Scope - \$160.

Brian Rucker Equipment for Sale:

- Orion X12i 12" Dobsonian - \$1,200.



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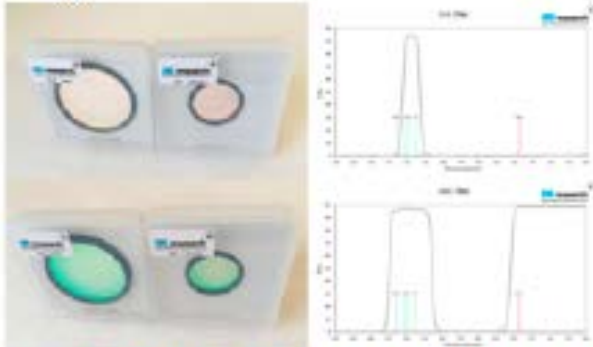
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Monthly Meetings will be held in person and also presented live online using Zoom. See the EVAC Website for updates.

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 7:00 pm.

Meetings are also available online via Zoom.

***Visitors are always welcome!***



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



## October 2024

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

**October 2<sup>nd</sup>** - Apache Junction Multi-Generational Center

**October 11<sup>th</sup>** - 2<sup>nd</sup> Friday Star Party

**October 17<sup>th</sup>** - Leading Edge Academy Star Party

**October 18<sup>th</sup>** - EVAC Monthly Meeting

**October 29<sup>th</sup>** - Chandler Gilbert Community College Star Party

## November 2024

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

**November 7<sup>th</sup>** - Pinal Co. Govt. Star Party

**November 8<sup>th</sup>** - 2<sup>nd</sup> Friday Star Party

**November 15<sup>th</sup>** - EVAC Monthly Meeting

## East Valley Astronomy Club - 2024 Membership Form

### Member Dues (Based on the month you are joining the club)

|   | Individual               | Family                   | Student (18yr+ with ID)  |
|---|--------------------------|--------------------------|--------------------------|
| January - June                              | \$30.00                  | \$35.00                  | \$20.00                  |
| July - December ( <i>Renew in January</i> ) | \$15.00                  | \$20.00                  | \$10.00                  |
|   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

### Renewal Dues (Current Members Only)

Astronomical League: \$10.00 Annually:

| Individual               | Family                   | Student (18yr+ with ID)  |
|--------------------------|--------------------------|--------------------------|
| \$30.00                  | \$35.00                  | \$20.00                  |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Name Badges:      Quantity: \_\_\_\_\_

\$10.00 Each

Name to imprint: \_\_\_\_\_

Total amount enclosed:

Please make check or money order payable to EVAC.

Payment will be made using PayPal:

Name:

Phone:

Address:

Email:

City  
State  
Zip

URL  
For website:

Would you be interested in our outreach program?      Yes       No

How did you discover East Valley Astronomy Club?

### Liability Release Form

In consideration of attending any publicized Star Party hosted by the East Valley Astronomy Club (hereinafter referred to as "EVAC"), the receipt and sufficiency of which is hereby acknowledged, I hereby affirm that I and any related entities, predecessors, successors, affiliates, attorneys, guarantors, insurers, transferees, assigns, parents, spouses, children, subsidiaries, accountants, officers, directors, employees, agents, shareholders, members, and trustees, past and present, hereby forever release, acquit and discharge to hold EVAC and its related entities, predecessors, successors, affiliates, attorneys, guarantors, insurers, transferees, assigns, parents, spouses, subsidiaries, accountants, officers, directors, employees, agents, shareholders, members, and trustees, past and present, from any and all causes of action, claims, losses, damages, liabilities, expenses (including attorneys' fees) and demands of any nature whatsoever, known or unknown, that in any way relate to, arise out of, or concern EVAC and/or my presence on the premises of any EVAC Star Party and related areas, whether or not those causes of action, claims, damages, liabilities, and demands are part of the specific subject matter of EVAC or any EVAC Star Party. This release is intended to and does cover all injuries and damages, and the consequences thereof, whether known or unknown at the time of the execution of this release, which have occurred or may hereafter occur or which may hereafter be discovered, and which may have been caused or may be claimed to have been caused by the said incident, and specifically includes, but is not limited to, bodily injuries, mental and emotional injury, pain and suffering, medical treatments, and loss of earnings or income.

My signature upon this form also indicates agreement and acceptance on behalf of all minor children (under 18 years of age) under my care in attendance. EVAC only recognizes those who are members or invitees and who also have a signed Liability Release Form on file as participants at an EVAC Star Party.

Signature \_\_\_\_\_

Date \_\_\_\_\_

## 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 in the Contact-Us area on the Home page of our EVAC website. 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 to consider is AZ-Observing@groups.io, simply click on this link <https://groups.io/g/AZ-Observing> and follow the instructions. EVAC also has a Facebook Group where members may share ideas, photos, and Astronomy related information. Click on the link to join: [East Valley Astronomy Facebook Group](#).

[The Gilbert Rotary Centennial Observatory \(GRCO\) also has a Facebook Group. To visit, please click on Gilbert Rotary Centennial Observatory - GRCO. The Observatory is open on Friday and Saturday from sunset until 9:30pm. We need volunteers. Training is provided. Help us engage the community in the wonders of the night sky. Email \[grco@evaonline.org\]\(mailto:grco@evaonline.org\) for information.](#)

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[www.evaonline.org](http://www.evaonline.org)

East Valley Astronomy Club  
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Mesa, Az. 85214-2202

*President: Steve Bradshaw*

*Vice President: Woody Sims*

*Secretary: James Yoder*

*Treasurer: Brooks Scofield*

*Board Members at Large: Claude Haynes, Nathan Eskey, Morgan J. Moran, Tom Mozdzen and Don Wrigley*

*Events Coordinator: Jake LeAlcala*

*Property Director: James Yoder*

*Refreshments: Open*

*Observing Program Coordinator: Wayne Thomas*

*AL Representative: Brooks Scofield*

*Newsletter Editor: Morgan J. Moran*

*Webmaster: Brandon Feldman*

*SkyWatch Coordinator: Claude Haynes*

*Observatory Manager: Claude Haynes*