



THE OBSERVER



[M104 - Miles Johnson](#)

UPCOMING EVENTS:

April 10th - GRCO 2nd Friday Star Party
 April 17th - EVAC Monthly Meeting

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

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From the Desk of the President

by Steve Bradshaw

I am proud of the East Valley Astronomy Club—proud of who we are and what we do. I hope you are too. We are growing in membership, meeting attendance, the number of star parties offered each year, and the reach of our community engagement.

We are a large, active club that truly makes a difference in the lives of our members. Whether your passion lies in the science of astronomy, the beauty of the night sky, or both, you'll find fellow members here who share your interests and enthusiasm. And that, after all, is why we chose to join a club rather than pursue astronomy alone in our backyards. Even better, our impact

extends well beyond our membership and into the broader community.

Take a moment to reflect on all that the club does to benefit both our members and the public. A quick look at just a few numbers tells an impressive story. We have just under 300 paid members, more than 600 people on our email distribution list, and over 1,200 followers on our Facebook page. A quick check of YouTube reveals that each recorded EVAC meeting averages about 80 views. Through multiple platforms and media, our club reaches—and positively impacts—a remarkable number of people.

(continued on page 2)

From the Desk of the President

Continued from page 1

Each month, about 100 members gather at EVAC meetings to learn more about the cosmos and to enjoy one another's company. Throughout the year, members also come together in groups both large and small to observe and image the night sky. Think about how special that is: we get to feed our left brains with science while nourishing our right brains through social connection. Research tells us that engaging both sides of the brain leads to greater satisfaction and happiness. That's a pretty sweet deal. Again, I am proud of how the club is evolving.

Our outreach efforts further extend our reach and purpose. Each year, thousands of people view the night sky through the telescope at GRCO. Did you know that our club, through just GRCO alone, has served over 215,000 people? Beyond GRCO, each year perhaps another thousand people experience the wonders of the universe at our public out-

reach star parties. As a club, we have also created an outstanding astronomy booth to further educate and inspire our community. We have every reason to be proud of what we have accomplished—and of what we continue to do.

Humanity has a long history of curiosity, exploration, and discovery as we seek to understand our world and the universe beyond it. I see the East Valley Astronomy Club as a meaningful extension of that tradition, and it makes me proud to be a member. Once again, I hope you share that pride in being part of such an exceptional club. Let's keep it going.

Until next month, enjoy looking up, learning, and connecting with others,
Steve

Moon Phases April 2026



Full "Pink" Moon

April 1st

7:11pm



3rd Quarter Moon

April 9th

9:51pm



New Moon

April 17th

4:51am



1st Quarter Moon

April 23rd

7:31pm

The Tale of the Pink Moon:

Long before anyone pointed a telescope skyward, people noticed that April carried a certain magic. As winter finally loosened its grip, tiny bursts of color, especially the bright pink wildflower phlox, began popping up across the landscape like nature's confetti.

Legend has it that the Moon, ever the show-off, wanted to join the celebration. So when April's Full Moon rose, people named it the Pink Moon, not because it blushed in the sky, but because it arrived right on cue with spring's first rosy blooms.

Some say the Pink Moon is the Moon's way of reminding us that renewal is inevitable, beauty returns, and even the cosmos enjoys a good seasonal flourish. Whether you see it as a sign of spring, a wink from the universe, or simply a lovely name, the Pink Moon is April's gentle promise that brighter days are blooming.

The Hunter and the Scorpion

by Morgan J. Moran

When we look up on cool spring nights, Orion stands proud near the western horizon, his belt a shining beacon pointing across the sky. But by May, he'll be gone—slipping beyond sight until next autumn. The legends say it wasn't time, but destiny that retires him: a celestial feud written among the stars.

According to Greek mythology, Orion was a mighty hunter, boastful and beautiful. He claimed he could conquer any beast of Earth, so the goddess of the Earth sent forth a deadly scorpion. Its sting silenced him forever. But Zeus took pity, placing them both in the heavens as a warning that even power must yield to humility.

Today, the two constellations chase each other endlessly around the celestial sphere. When Orion sinks in the west, Scorpius rises in the east, and they never meet.

Did you know?

- Betelgeuse, Orion's red shoulder, is a supergiant nearing its spectacular finale. One day, it may explode as a supernova bright enough to cast shadows on Earth.
- The Orion Nebula (M42) is the closest massive star-forming region to our planet—visible even through binoculars.
- Orion's three belt stars—Alnitak, Alnilam, and Mintaka—form one of the most easily recognized asterisms worldwide.
- Following the belt eastward points to Sirius, the brightest star in the night sky; westward leads to Aldebaran in Taurus.

Across the heavens, Orion's rival is waking: Scorpius, crowned by the fiery Antares—its "heart." When you see that red spark burn in the summer sky, remember the hunter's tale and the sting that never fades.

Astrophotography Corner

Best Deep-Sky Targets for April

Object	Type	Notes and Tips
M81/M82 (Bode's & Cigar Galaxies)	Galaxies in Ursa Major	Excellent paired shot; M82 shows striking red jets in long exposures.
The Leo Triplet (M65, M66, NGC 3628)	Trio of galaxies	Frame all three for a classic composition with deep integration.
M13 (Hercules Globular Cluster)	Globular cluster	Dense and brilliant; shows color variation with modest exposure.
NGC 3242 "Ghost of Jupiter"	Planetary nebula	In Hydra; teal glow stands out in narrowband imaging.
The Virgo Cluster Region	Galaxy cluster	Ideal for wide-field imaging; dozens of galaxies in one frame.

April Celestial Highlights:

- Jupiter at opposition early April — dazzling all month.
- Lyrid Meteor Shower peaks April 22–23 (up to 20 meteors/hour).
- Saturn returns to morning skies.

EVAC Outreach Events - April 2026

by Alice Kobe

Confirmed April Star Parties:

- April 10th – 7:30pm–9:30pm – GRCO 2nd Friday Public Star Party
- April 21st – 7:30pm–8:30pm – Apache Junction Multi-Generational Center

Details can be found on the EVAC website - evaonline.org/events-meetings.

Updates, reminders, etc. associated with outreach events are done via email. To sign up and receive these emails go to freelists.org/list/evac-outreach to be added on the mailing list.

Just a few reminders for all star party events:

1. After signing up on the EVAC outreach email list, always check your email before leaving for an event for any updates, changes, or cancellations.
2. Arrive early enough to have your equipment setup before start time of the event.
3. We do not allow any public viewing until the Sun is completely below the horizon.
4. No lasers mounted on telescopes. Volunteers are allowed to use lasers to point out objects in the night sky by holding the laser above your head while using. Do not give the laser to visitors to operate.
5. Be familiar with the Public Outreach Events Operations Manual - found [here](#). (bottom of the page)



February 24th
American Leadership Academy
(a member's 3rd grade class)

From left to right, front to back: Alice Klobe, David Parriott, Andrea Matthias, Steve Bradshaw, Rachel Neglia, Josh Eyre, Merrill Jencks, Chase Anderson, Brandon Feldman, and Gordon Rosner.



March 13th
GRCO 2nd Friday Star Party
(314 guests counted)

From left to right, front to back: Alice Klobe, Rachel Neglia, Jeff Foreman, John Janzen, Betty Rhodes, Damien Schultz, Kristi Jencks, Merrill Jencks, David Parriott, John Berg, Thomas Kar, Gordon Rosner, Josh Eyre, Deb Mohan, and son. Not in photo: Kaylin Washburn, Andrew Thorpe, and Don Wrigley.

EVAC Monthly Meeting Recap - March 20, 2026

by John Dunnegan

Meeting Minutes

YouTube: Many EVAC monthly meetings can be viewed on YouTube. Just search for the East Valley Astronomy Club on the YouTube website to locate the recordings, or select this [link](#) for the recordings.

General Announcements

Membership

Members were reminded that dues support club activities including snacks, bus trips, and star parties. Memberships can be renewed in person at the back table with Brooks or online via the club website.

Staying Informed

Members and visitors were directed to four ways to stay connected:

1. Email mailing list — approx. 10 or fewer emails per month; no addresses shared with third parties
2. Website Events & Meetings calendar — updated monthly
3. Monthly newsletter — distributed automatically via email; 30-year archive available on website
4. Facebook page — two-way communication; approximately 1,200 members

Telescope rentals, used equipment, and training opportunities

- Tom (Properties Manager) received a donated mount and tripod at tonight's meeting
- Donated equipment is inspected, repaired as needed, and sold at roughly half price
- Rental equipment available for try-before-you-buy; ranges from push-to-go scopes to electronic go-to models
- Equipment and rental info available on the club website

Online Training & Classes

- 33 self-paced online training modules available on the website
- Basic Telescope Operations class: starts Monday (sign up at artscentrics.com); spaces still available — contact Steve if interested
- Planetary Imaging class: scheduled for later in April; 3 Zoom sessions + 1 live demo; registration on artscentrics.com.

Logoed Merchandise Order

- Current order includes: t-shirts, polo shirts, hoodies, and potentially hats (minimum 25 required to order)
- Approximately 35 people have signed up so far; 4 sign-up sheets at the back table
- Steve plans to place the order within the next 2 weeks; merchandise expected to arrive by the April meeting
- Payment online through the club website (PayPal, Apple Pay, credit card accepted)
- Zoom attendees: email president@evaonline.org with size, color, style, and quantity

Badge Raffle

EVAC held one of four 2026 badge raffles tonight. Members wearing name badges were entered to win. Four \$25 Amazon gift cards were awarded. Winning ticket numbers: 294, 295, 304, and 287. The raffle is designed to encourage badge-wearing and social interaction. Three more raffles will be held at random meetings throughout the year (not December).

Andrea Matthias mentioned she is considering organizing a Christmas party this year — details to follow.

Public Outreach Report — Alice Klobe, Events Coordinator

How to Volunteer

Alice outlined two volunteer paths for outreach star parties:

1. Telescope operator: bring a scope and share a featured object with guests
2. Walker's helper: assist with guest etiquette, check on astronomers, cover the eyepiece during breaks

Events run approximately 2 hours. Volunteers must sign up via the outreach email list (events@evaonline.org) to receive scheduling, reminders, and cancellation notices.

EVAC Monthly Meeting Recap - March 20, 2026 (continued)

GRCO Observatory & special openings

EVAC manages and operates the Greco Observatory, located just east of the meeting venue. Open Friday and Saturday nights from sundown to 9:30 PM. Contact volunteer manager Claude Hayes to schedule volunteer shifts.

Volunteer Recognition

Alice asked all outreach volunteers present to stand and received a round of applause.

Alice noted the outreach season is winding down. Only two star parties remain next month; summer schedule will likely be limited to the GRCO 2nd Friday Star Party.

Upcoming Events

Messier Marathon — Rescheduled

The SAC Club's Messier Marathon Spring Star Party (originally this weekend) was canceled due to unseasonable heat (105°F in March). Rescheduled to next month on the same weekend as the April club meeting. Steve plans to attend on Saturday the 18th.

Hyman Rim Ranch Star Party

Organized by James Yoder. Still has space available. Details on the club website and at artcentrics.com. Dates: September 11th–13th.

All-Arizona Star Party

Scheduled for October. Details forthcoming.

Kitt Peak National Observatory Bus Trip — Saturday, May 2nd

Organized by Andrew. A full-day guided tour for up to 50 participants, departing from the Southeast Regional Library.

- Departure: 6:45am from Southeast Regional Library; on the road by 7:00am
- Arrive at Kitt Peak: approximately 10:00am
- Tour highlights: Mayol 4-meter telescope, McMath-Pierce Solar Telescope, Windows of the Universe Science Center (themes: cosmic origins, structure of the universe, astrophysics in action, human space exploration)
- Lunch: 11:30am – 12:30pm (on-site bag lunches; gluten-free, vegetarian, and standard options; pre-ordered online)
- Depart Kitt Peak: ~3:00pm
- Cost: \$45/member (club subsidized); \$60/non-member
- Members get priority; non-members may sign up if space remains
- Each member may bring one plus one; pricing is per person
- Registration and payment online only (PayPal, Apple Pay, credit card)
- Note: Bus line changed from Royal to Gray Line (same size, 50-person capacity)
- Website registration to be live once webmaster Brandon returns from vacation — Steve will notify all via email

Member Presentation - University of Arizona Adult Astronomy Camp

Presenter: John Dunegan, Club Secretary

John described his experience attending the University of Arizona's Adult Astronomy Camp in October 2025. The camp runs twice yearly (Memorial Day weekend in May; late October) and is hosted across two sites: the Mount Lemmon Sky Center and the Mount Bigelow Observatory.

Key highlights:

- Cost: approximately \$1,100 (includes lodging, all meals, and full access to both telescopes)
- Participants use the Kuiper 61" telescope at Mount Bigelow (historic; hydraulic floor; very loud) and the Schulman 32" Ritchie-Chretien telescope at the Sky Center Visitor Center (modern, silent, dedicated entirely to public outreach)
- Each camper sets a personal research goal; John's was hands-on telescope operations with the goal of transitioning into an astronomy-based career after 22 years of classroom teaching
- Structured learning progression: Night 1 – observe; Night 2 – assist; Night 3 – operate independently
- Daytime activities included Solar Day (Questar + sunspotter; paper-burning demo to illustrate unfiltered sun danger), graduate student thesis presentations, and working through an astrophysics textbook
- Schedule: breakfast at 10 AM, classes 11 AM – 1/2 PM, nap, dinner, observing from sunset until 4 AM
- Notable people: Program director Dr. Don McCarthy; co-director Larry Lebowsky (co-author of *Sharing the Sky with David Levy*; affiliated with the Vatican Observatory)
- John is registered to return in October 2026. Camp dates and registration available on the Mount Lemmon Sky Center website.

EVAC Monthly Meeting Recap - March 20, 2026 (continued)

Main Presentation: Studying the Early Universe via Neutral Hydrogen

Presenter: Dr. Tom Mozden, PhD — Astrophysics (ASU, 2017)

Introduced by VP Andrea Matthias, who highlighted Tom's decades of service to EVAC (since the mid-1990s) in roles including secretary, newsletter editor, board member, VP, and president, as well as his ongoing management of Zoom and YouTube. Tom earned his PhD researching the Epoch of Reionization using the EDGES instrument.

Overview & Motivation

Tom's talk focused on how scientists probe the universe's earliest era — Cosmic Dawn (roughly 100–300 million years after the Big Bang, redshifts of 14–30) — using neutral hydrogen's 21-centimeter radio emission. Only 7 galaxies with redshift greater than 12 have been confirmed to date, and no first-generation (Population III) stars have ever been directly observed. JWST has recently detected roughly 300 mysterious objects called 'Little Red Dots' whose nature remains unknown.

Physics Background

- After the Big Bang: inflation, nucleosynthesis, and the formation of protons and neutrons
- Recombination (~380,000 years post-Big Bang, redshift ~1,100): electrons join nuclei to form neutral hydrogen and helium; the universe becomes transparent and the Cosmic Microwave Background (CMB) is released
- Dark Ages: neutral hydrogen clouds cool and begin condensing into the first stars and galaxies
- Cosmic Dawn: first stars ignite; black holes, quasars, and active galactic nuclei form
- Reionization (~1 billion years post-Big Bang): UV radiation from galaxies strips electrons off neutral hydrogen; the universe becomes fully ionized and transparent
- Present CMB temperature: 2.7 Kelvin (originally ~3,000 K at recombination)
- Hydrogen abundance in the universe: approximately 75% hydrogen, 25% helium (set within the first 100 seconds after the Big Bang)

The 21-Centimeter Signal

A neutral hydrogen atom emits a 21-centimeter (1420 MHz) photon approximately once every 10 million years via a spin-flip transition (a 'forbidden transition'). Despite the rarity per atom, the sheer abundance of hydrogen makes this signal detectable across cosmic scales. When the hydrogen gas is warmer than the CMB, it adds to the CMB signal; when cooler, it absorbs from it. Measuring this brightness temperature difference across redshifts can reveal the timeline of the first stars, galaxies, and the reionization process.

The EDGES Experiment

- Tom described the EDGES (Experiment to Detect the Global Epoch of Reionization Signature) instrument, a ground-based radio telescope array located in the Murchison Widefield Array site in Western Australia. Key design and analysis challenges include:
- The sky foreground (galactic synchrotron radiation) is approximately 100,000 times brighter than the signal being measured
- The antenna functions like a wide-field, single-pixel, color camera averaging the entire sky
- Operating frequency range: 100–200 MHz (corresponding to the redshifted 21-cm signal from cosmic dawn)
- The team developed progressively larger ground planes and improved blade antennas to reduce systematic errors
- Foreground subtraction uses polynomial fitting; analysis showed 5 polynomial terms is optimal — more terms risk subtracting the signal itself
- FM radio (100 MHz range) and digital TV (150 MHz range) are significant sources of radio frequency interference

Results & Current Status

- Early measurements set upper limits on the brightness temperature (no confirmed detection)
- A tentative detection of a ~600 millikelvin absorption feature was published, generating excitement among theorists
- Work is ongoing; researchers are pursuing 10,000+ hours of integration time to further reduce noise
- Future frontier: Jack Burns (UC Boulder) is pursuing a lunar far-side radio telescope — a radio-quiet environment free of Earth-based interference — which may become feasible within Tom's lifetime
- A former postdoc colleague, Raul, is now conducting measurements from the Canadian Arctic to take advantage of reduced RF interference above the Arctic Circle

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, Tom Jacobs (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.).

Complete telescopes being offered for sale this month:

- [LX200 10" GPS telescope \\$1700](#)
- [JMI NGT 12.5" telescope \\$1500](#)
- [Meade ETX-LS 6" \\$600](#)
- [Orion 6" Newtonian \\$250](#)
- [Celestron 4.5" Newtonian \\$150](#)
- [Classic Celestron 8" \\$300](#)
- [Celestron 6" SCT \\$650](#)
- [TOWA 6" SNT \\$250](#)
- [10" Sky Watcher Dobsonian \\$550](#)

Mounts and Tripods being offered for sale this month:

- [Celestron NextStar Single Arm - \\$200](#)
- [Losmandy G11 - \\$1000](#)
- [Celestron AVX - \\$600](#)
- [Bressler GoTo Mount - \\$500](#)

EVAC Members Sales

- [AVX Mount and Tripod \\$700 or Best Offer - Call Daniel Goldsmith: 480-242-7192](#)
- [Orion Scenix 7x50 Binoculars \\$40 - Email James Yoder: \[jty.astro@ArtCentrics.com\]\(mailto:jty.astro@ArtCentrics.com\)](#)

EVAC Equipment Rental Program - Select [THIS LINK](#) to submit a request to reserve equipment.

Equipment rental is available to East Valley Astronomy Club (EVAC) members. Equipment rental rate is \$25/week for up to four weeks at a time. The following equipment is available:

Telescopes

- [Celestron C-8 with Nexstar GoTo mount](#) (Telescope Package SCT01)
- [Celestron 10" Dobsonian Telescope](#) (Telescope Package DBB01)

Imaging Packages

- [Celestron Origin Intelligent Home Observatory](#) (Imaging Package ST01)
- [SeeStar S50 All-In-One smart telescope](#) (Imaging Package S50)
- [Planetary & Moon Imaging Kit](#) (Imaging Kit 01)

Visual Filters Kit

- [Twelve 1.25" filters for deep sky objects](#) (Filters Kit VFR01)

EVAC Equipment Restrictions and Requirements

- Must be EVAC member in good standing (dues are current).
- Rent is on a weekly basis and not to exceed four consecutive weeks.
- Equipment Pick-up and Drop-Off location and times will need to be coordinated with the EVAC property manager.
- Rental fee is due upon pick up of equipment.
- A security deposit is required for equipment being rented (see equipment details for amount).
- Each package has an associated Rental Agreement that must be completed and signed.



SkyPi Remote Observatory

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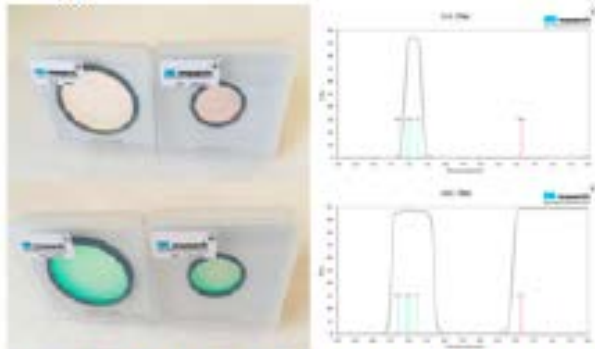
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www.apache-sitgreaves.org

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



April 2026

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 10th - Sunset to 9:30pm - EVAC/GRCO Monthly 2nd Friday Star Party

April 17th - 7:00pm to 9:00pm - EVAC Monthly Meeting

April 21st - 8:30pm to 9:30pm - Apache Junction Multi-Generational Center Star Party

May 2026

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 8th – Sunset–9:30pm – GRCO 2nd Friday Public Star Party

May 15th – 7:00–9:00pm – EVAC Monthly Club 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 gco@evaonline.org for information.

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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The East Valley Astronomy Club is a 501(c)(3) nonprofit charitable organization.

www.evaonline.org

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Property Director: Tom Jacobs

Refreshments: Open

Observing Program Coordinator: Wayne Thomas

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Observatory Manager: Claude Haynes