



MARTZ-KOHL OBSERVATORY

Marshal Martz Memorial Astronomical Association Inc.

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www.martzobservatory.org

Lunar Eclipse on May 15, 2022



Changing weather forecast kept us wondering if we would be able to view the Full Blood Red Flower Moon. Fortunately, the clouds disappeared just in time. We are fortunate to have the 5" Takahashi refractor telescope. This has provided us with the best "wide angle" images from inside the Kohl Dome.



Give Big CHQ is a 24-hour online fundraising event that connects individuals with causes they care about in Chautauqua County. Over 100 nonprofits have created a fundraising page to accept donations the day of the event, **June 9, 2022.** <https://www.givebigchq.org/organizations/martz-kohl-observatory>



In addition to what we receive in donations, there are three incentives for additional funding. **Rise & Shine Bonus Award Incentive: 12am-7am.** Up to 25 nonprofits that receive an online donation between 12am-7am on June 9th will be randomly selected to receive a \$100 bonus award.

716-Stretch Pool Incentive: 7:16am-7:16pm. A pool of stretch dollars will be shared by all qualifying nonprofits that receive online donations between 7:16am and 7:16pm on June 9.

\$25 Match Hour: 9-10pm. In honor of 5 years of Give Big CHQ, Chautauqua Region and Northern Chautauqua Community Foundations will sponsor a \$5,000 match pool. All online donations will be matched up to \$25 during the hours of 9-10pm or until the match pool is exhausted.

Palomar Observatory: From 1936 to Now

Wednesday, June 15, 2022, at 7:30 p.m.



Palomar Observatory in Southern California, operated by Caltech, has been at the forefront of astronomical research since 1936, nearly 90 years! Its 200-inch Hale Telescope is considered one of the most consequential scientific instruments of the last century. This world-famous observatory still operates every clear night and is an iconic facility for scientific advancement, instrument development, and student training.

Steven Flanders is the Outreach Coordinator for the Palomar Observatory. He will present the amazing story of the men and women of Palomar, the insights they developed over many decades, along with the work of other researchers in the global community who have produced a series of discoveries and engineering innovations that changed our view of the cosmos.

In the late 1950s, as Steven was becoming interested in astronomy, Palomar Observatory was a place of great scientific importance. Following a 30-year career in corporate IT management, he joined the observatory's docent program. After several years, he was offered the position of Outreach Coordinator. A Caltech employee since 2013, Steven's job involves overseeing the work of 32 volunteer docents. These docents conduct tours of the Hale Telescope, host star parties, and participate in a variety of special observatory events.

The Man on the Moon

Wednesday, July 20, 2022, at 7:30 p.m.



Ray Garner III, a NASA/JPL Solar System Ambassador, will present live at the Martz-Kohl Observatory a talk entitled "The Man on the Moon." Over fifty years ago, America became the first (and so far, only) nation to put a man on the Moon. That momentous event is one for the ages and was watched by millions of people worldwide. What is less remembered are all the smaller steps required to get to the Moon. This talk will take you through that journey, starting from the founding of the National Air and Space Administration (NASA), through the succeeding Apollo missions, to the perilous voyage of our heroes Buzz Aldrin, Michael Collins, and Neil Armstrong, to and from the Moon.

Born in Las Vegas, Nevada and raised in Conyers, Georgia, **Ray Garner** has spent his whole life wondering about the Universe. After getting his B.S. in Physics from Furman University in Greenville, South Carolina, Ray went directly on to graduate school at Case Western Reserve University in Cleveland, Ohio, where he is currently pursuing his Ph.D. in Astronomy. His thesis work involves observing and analyzing data on the Pinwheel Galaxy (M101) to understand its chemical and dynamical evolution.

Since 2017, Ray has been a volunteer with the NASA/JPL Solar System Ambassadors group, spreading the word about NASA's solar system science endeavors. As such, Ray has given numerous public talks around the country. Says Ray, "I have always been interested in the history of astronomy, learning how we know what we know and who did the discovering. It helps me appreciate my own work, knowing that I am only standing on the shoulders of others who have come before me."

Both lectures are available online via Zoom. We encourage you to come to the observatory to meet our speakers either in-person or virtually on our high-resolution conference screen. Later, if the weather cooperates, we will offer tours and viewing opportunities. More info: www.martzobservatory.org Admission is free, but donations are welcome.

President's Update



When our observatory was created by Marshal Martz and a few other people in 1958, we had no idea that it would eventually grow to be the facility it is today. Throughout the years, members have volunteered unlimited hours to make this happen. I've been involved from the sixties to the present and I have seen many changes during that time. You, the members, have made that happen. The observatory is at a point now where we can promote astronomy through education for students and inspire the general public. Our young people are going to be on the moon in the near future. We have a space station in which scientists are actually living in.

Our children and their children will be taking rides to space and they have to be prepared for space travel. Our observatory can educate them about what is out there. The **Martz-Kohl Observatory** is working with area schools and universities. We've had visitors from around the world visit the observatory and we've hosted special events, and we have managed to capture Astro images regardless of the time of year or day. We have members from across the United States. I am very passionate about our home, the **Martz-Kohl Observatory**, and the **Marshal Martz Memorial Astronomical Association, Inc.**, our family. I invite new members to become part of our family. We need your help with maintaining our home. If you have time and are interested in volunteering, please contact me at halloptical9119@gmail.com.



Rachel Freed's Presentation



In May, the **Martz-Kohl Observatory** welcomed **Rachel Freed** as part of our Lecture Series. Rachel described her journey from high school teacher with a passionate fascination with astronomy to a full-time professional astronomer. She is now a leader in double star astrometry research programs and edits the Journal of Double Star Observations (JDSO). In her presentation, she described the research underway by people in her research programs and the opportunities created by students by the growth of access to

global telescope networks. Rachel is co-founder and the President of the Institute for Student Astronomical Research with a goal of incorporating scientific research into high school and undergraduate education. You can view her video and others from our Lecture Series on our website. www.martzobservatory.org



June – July 2022 Newsletter

Astronomy Type Events in June & July

Early June is a great time to find a dark spot, lie back and view the Milky Way.

June 21 – Summer solstice. Summer starts when the northern hemisphere tilts towards the sun. Longest day of the year for us.

June 23 – All five planets viewable with the naked eye - Mercury, Venus, Mars, Jupiter, and Saturn – can be seen in a row. Bonus: they will be in the correct order from the Sun from low in the sky to high.

June 27 – Peak of the Bootids Meteor Shower. It's not usually that impressive but you should see 2-3 meteors per hour.

July 4 – Earth is farthest from the sun for this year.

July 13 – Super (Buck/Thunder/Hay/Wort) Full Moon.

July 28-29 – Delta Aquarius Meteor Shower. Meteors showers will appear to radiate from Aquarius. You should see 15-20 meteors per hour late in the evening, low in the SSW sky.

Calendar of Events

June 15	Zoom webinar with Steven Flanders, <i>Palomar Observatory: From 1936 to Now</i> , at 7:30 p.m.
June 9	<i>Give Big CHQ</i> 24-hour online fundraiser.
July 20	Ray Garner III presents <i>"The Man on the Moon,"</i> at 7:30 p.m. at the <i>Martz Kohl Observatory</i> .
July 21	Panama Central School visits at 9 a.m.
August 17	Presentation by James Keough, <i>Challenger Learning Center of the Twin Tier Region</i> , at 7:30 p.m.
September 21	Presentation by Dave Wilkens, <i>Backyard Astrophotography</i> , at 7:30 p.m.

General membership meetings are the 2nd Wednesday of the month, and the board meetings are the 4th Wednesday of the month.

Did You Know...

We humans are made from Dead stars.

The Sun contains 99.8% of the mass in our solar system.

The observatory needs volunteers to help with specific projects or on-going projects. We need people power to help with daytime indoor and outdoor activities. Please contact us if you're willing to help.

Board Members: Gary Nelson, **President**; Brian Ceci, **Vice-President**; Corey Swanson, **Secretary**; John Anderson, **Treasurer**; Josh Campbell; Richard Carlson; Lawen Griffin, Jr.; Laurie Livingston; Walt Pickut; Jon Porier; and Tom Traub.