

Celestial

Volume 38 Issue 7



Observer

July 2018



M16 Eagle Nebula Image by CCAS Member Glenn Elliott. SBIG ST-2000XM camera with f/6.3 reducer and CFW-8A color filter wheel.

Next Meeting: Thursday, July 26th
7PM at United Methodist Church,
Wesley Building. Special showing of
NOVA's *What the Universe Is Made
Of*.

Next Star Gazing: Saturday, July 14th
at sunset at the Santa Margarita KOA.
See inside for directions and a map.

Upcoming Meeting

Thursday, July 26th in the Wesley Room, 1515 Fredericks Street, San Luis Obispo
6:45 Doors Open | 7:00 Meeting Starts

Join us for a screening of *What's the Universe Made Of?*



The universe is hiding something. In fact, it is hiding a lot. Everything we experience on Earth, the stars and galaxies we see in the cosmos—all the “normal” matter and energy that we understand—make up only 5% of the known universe. The other 95% is made up of two mysterious components: “dark matter” and “dark energy.” We can’t see them, but we know they’re there. And what’s more—these two shadowy ingredients are locked in an epic battle to control the very fate of the universe. Now, scientists are trying to shed light on the so-called “dark sector” as the latest generation of detectors rev up, and powerful telescopes peer deeper into space than ever before to observe how it behaves. Will the discoveries help reveal how galaxies formed? NOVA Wonders journeys to the stars and back to investigate what we know—and don’t know. Find out how scientists are discovering new secrets about the history of the universe, and why they’re predicting a shocking future.

Runtime: 53 minutes.

Next Star Gazing

July 14, 2018 at sunset (8:20PM) at the Santa Margarita KOA

Our Sky Star Parties occur once a month, and are free and open to the public, and also weather-permitting. Check our website for all the details!

Cass Winery Star Party

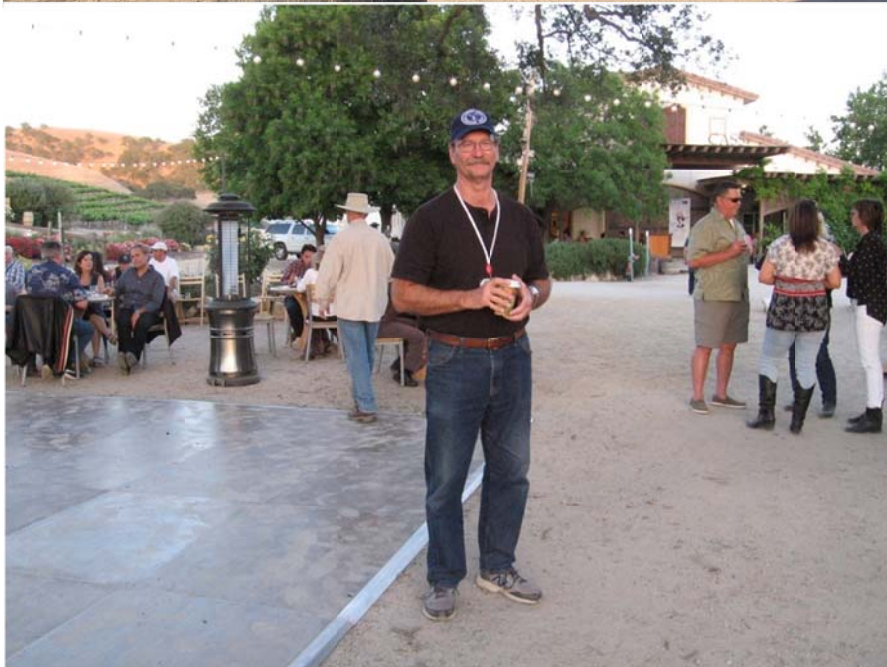
The Cass Winery star party was held on Friday the 1st of June. In attendance were Joseph Carro, Tom Frey, Ron Setina and Carol Setina. The Cal Poly Astronomical Society was in attendance as well.



The astronomers arrived about 6pm and set up their telescopes in an open area of the vineyard. Approximately 8 scopes were used with about 150 to 200 guests.

The night was beautiful with a light breeze that subsided to calm winds just before sunset. Venus was viewed prior to sunset, and the planet was in the gibbous stage. As the sun set, Jupiter was seen in the eastern sky and was the highlight of the evening. All 4 moons were visible and the northern and southern equatorial bands could be seen easily. The sky was very steady and seeing was very good as well.

Near the end of the evening, Ron was able to locate NGC5139, Omega Centauri in his 8 inch SCT. The cluster filled nearly half of the 1 degree field of view. Everyone seemed to enjoy the night.



CCAS Officers

Feel free to connect with us!



President: Joseph Carro

Vice President: Tom Frey

Vice President: Aurora Lipper

Outreach Coordinator: Dave Majors

Treasurer: Lee Coombs

Celestial Advisor: Kent Wallace

Webmaster: Joe Richards

CCAS Contact Information

Founded in 1979, the Central Coast Astronomical Society (CCAS) is an association of people who share a common interest in astronomy and related sciences.

Central Coast Astronomical Society

PO Box 1415

San Luis Obispo, CA 93405

Website: www.centralcoastastronomy.org

Facebook: www.facebook.com/CentralCoastAstronomicalSociety

Lectures & Star Parties

MONTHLY MEETING & LECTURE

On the fourth Thursday of the month (Jan-May, Aug-Oct), we often have world-renowned professionals and amateurs in astronomy speak about their projects during our monthly meetings. The talks are informal and questions are invited.

Meetings begin at 7:30 p.m. in San Luis Obispo. For location and directions, visit our website: www.sloastro.org

OUTREACH PROGRAM

We offer a limited number of outreach programs where we bring our star party to you. These custom events include a talk about current topics in space science. After the lectures, we make our telescopes available for your group to observe the wonders of the night sky.

STAR-GAZING EVENTS

Join us for a star-gazing evening by observing the dark skies through club members' telescopes. It begins just before sunset on one Saturday each month. The Star Party is hosted in Santa Margarita. (See website www.sloastro.org for dates, times and locations).

Need help operating your telescope? Bring your telescope one hour early for help on how to work your telescope by our friendly astronomers.



Why Join CCAS?

BENEFITS OF MEMBERSHIP

- Subscription to *Celestial Newsletter*, our monthly bulletin of articles and events
- Interaction with world class speakers as they present cutting edge astronomical research
- Discounts on *Sky & Telescope* and *Astronomy* magazines
- Social events, such as our annual Star-B-Que
- Club telescopes – use one of the club's loaner scopes, complete with instructional lessons
- Access to 'Members Only' are of the website containing observing tips, scope tricks, and educational articles for all levels
- Field trips – to observatories and other locations of scientific interest, such as Mt. Wilson Observatory in Pasadena, Chabot, Space and Science Center, Fremont Peak, and the Stanford Linear Accelerator Center (registration fee may be requested)
- Extended observing hours on public nights and private observing sessions exclusively for CCAS members
- Assistance from club members, and other "how-tos" to help you best enjoy amateur astronomy and astrophotography

Questions about membership or other events?
Call Lee Coombs at (805) 466-2788 or visit our website at:

www.sloastro.org

How to Join

MEMBERSHIP APPLICATION

Membership is annual for each upcoming year, beginning when you first sign up. You can sign up online or mail in this form:

Membership Categories (Check one):

- ☐ \$15 Youth/Student
☐ \$15 Seniors
☐ \$20 Individual/Family

Magazine subscriptions Add specified amount to membership fee for a 1-year subscription.

- ☐ *Sky & Telescope* (+ \$33) only in September
☐ *Astronomy* (+ \$34) only available in September

Information: (PRINT CLEARLY!!)

Name(s) _____

Address _____

City _____

State, Zip _____

Home Phone _____

E-Mail _____

Newsletter Subscription:

You can choose E-Mail (recommended) or hard copy delivery for *Celestial Observer*. (check one)

- ☐ E-Mail (full color)
☐ Hard Copy (black & white)

Please make checks payable to Central Coast Astronomical Society and mail to P.O. Box 1415, San Luis Obispo, CA 93405.