November Star Party photo by Philip Staudigel with a fish eye lens, 30 second exposure.

**Next Meeting:** You’re invited to the CCAS Holiday Party on Thursday, December 20th! *Details inside.*

**Next Star Gazing:** Saturday, December 8th at sunset at the Santa Margarita KOA. See inside for directions and a map.
Christmas Party!
Thursday, December 20th in the Wesley Room
1515 Fredericks Street, San Luis Obispo
7 PM to 9 PM

In lieu of our December meeting, please join us for our Christmas party! We will be giving away door prizes, including a Helio-Pod, planisphere, night vision flashlight, field guides, pocket atlas, laser pointers, and much more!

Please bring some Christmas goodies to share with everyone, such as cookies, appetizers, candies, etc. Punch and cider will be provided!

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**CANIS MAJOR**

The great Overdog,
That heavenly beast
With a star in one eye,
Gives a leap in the east.

He dances upright
All the way to the west,
And never once drops
On his forefeet to rest.

I'm a poor underdog,
But to-night I will bark
With the great Overdog
That romps through the dark.

Robert Frost, 1928

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**WHEN I HEARD THE LEARN'D ASTRONOMER**

When I heard the learn'd astronomer,
When the proofs, the figures, were ranged in columns before me,
When I was shown the charts and diagrams, to add, divide, and measure them,
When I sitting heard the astronomer where he lectured with much applause in the lecture-room,
How soon unaccountable I became tired, and sick,
Till rising and gliding out I wander'd off by myself,
In the mystical moist night-air, and from time to time,
Look'd up in perfect silence at the stars.

Walt Whitman, 1865
**Next Star Gazing**

*December 8th, 2018 at sunset (4:50PM) 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!

Here are more photos from our November star party, courtesy of Philip Staudigel!
Sacramento Mountains Spectroscopy Workshop

The second Sacramento Mountains Spectroscopy Workshop (SMSW-2) will be held in Las Cruces, New Mexico on February 22, 23 and 24, 2019

This event is designed to be a boot camp to help friends and neighbors get started and move forward with amateur astronomical spectroscopy. You won't find a boot camp like this anywhere else in the world!

Our in-depth three-day program includes presentations by experienced amateur astronomers and professional astronomers. These presentations will teach you about the hardware and software used by amateurs and introduce you to the kinds of projects you can do as an amateur and how to contribute to pro/am collaborations. In addition, the professional astronomers speaking at SMSW-2 will provide context and detail regarding the astrophysics of spectra and their own research projects.

By the end of the workshop, attendees will be able to take raw data and calibrate it and process it to produce a finished spectra that can be accepted by the BeSS database validators.

You can learn more and register here: [http://www.smswweb.com/](http://www.smswweb.com/)
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.

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If you would like to receive our newsletter, please make sure to subscribe at http://www.jusmoon.org/unsub

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Monthly Meeting & Lecture

 programmer

OUTREACH PROGRAM