

Celestial

Volume 39 Issue 7



Observer

October 2019



Lee Coombs: NGC869,884

No October Meeting

Next gathering is our CCAS Members Holiday party in December! We also have star gazing all through winter.

Next Star Gazing: Saturday, October 26th 7-10pm at Santa Lucia Middle School (details inside), sponsored by *Beautifying Cambria*.

REPORT ON THE SEPTEMBER GENERAL MEETING

The September 26 meeting was well attended and featured two talks by Lee Coombs. Lee discussed how common names are associated with many deep sky objects and gave many examples of objects whose common names were derived from the animal kingdom.

Lee showed some of his astrophotos of over 50 examples of deep sky objects in this category. The audience had fun trying to see how these names came about. For some, it was somewhat of a challenge and the audience had fun using their imagination to see the similarity. Many also found new objects that they plan to try and observe at upcoming star parties.

Lee's second presentation involved showing how he processes his astrophotos in PhotoShop and some of the short cuts he uses to obtain his results. He uses a DSLR for all his photography and many could relate to the equipment he uses. There were many good questions and discussions from others in the audience who are also interested in or are actively doing some astrophotography. Helpful information was exchanged and the presentation generated much discussion.



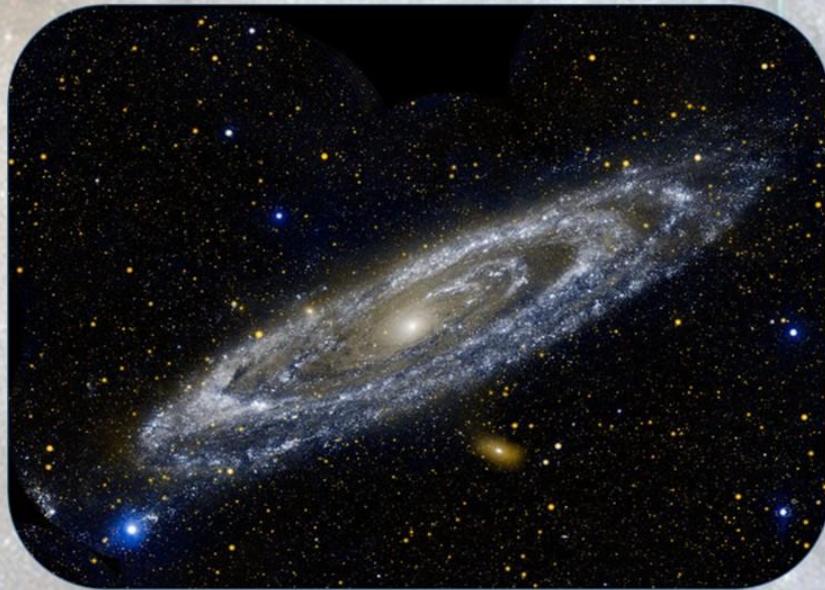
CCAS September meeting was fun and inspiring! CCAS Member Lee Coombs presented his DSLR processing methods.

CESAME and the Cosmic Evolution Project
present a talk by UC Santa Cruz astrophysicist

Raja Guha Thakurta

The Universe of Galaxies:

**Dark Matter, Cannibalism, Black Holes, Gravity Waves, and
the Periodic Table Elements**



Wednesday October 9
Spanos Theatre 7:00 pm
doors open at 6:30 pm
the event is free but parking is not free



CAL POLY
CESAME

for more information
visit <https://evolution.calpoly.edu>
or contact cesame@calpoly.edu



"The Universe of Galaxies"

**7 pm Wednesday October 9
Spanos Theatre**

UC Santa Cruz astrophysics department chair Raja Guha Thakurta will give a talk entitled "The Universe of Galaxies: Dark Matter, Cannibalism, Black Holes, Gravity Waves, and the Periodic Table of Elements". He will illustrate his slide presentation with the latest astronomical images, animations, and videos. This is a free public event, but parking in the structure is not free. Doors open at 6:30pm.

Dr. Raja will discuss how the materials that compose human beings and other life forms were synthesized inside the Sun's ancestral stars. Our dark matter dominated Milky Way galaxy and other galaxies like it serve as chemical recycling plants and are responsible for the richness and complexity of the Periodic Table of elements. He will also discuss the lives and times of galaxies: galaxy cannibalism and mergers, black holes, gravitational waves, and the growth and evolution of galaxies from the tiniest ripples in the fabric of the early Universe.

Raja Guha Thakurta is Professor and Department Chair of Astronomy/Astrophysics at the University of California Santa Cruz. He studies the formation and evolution of galaxies large and small, with a focus on the assembly of their dark matter, dynamics, merger history, chemical enrichment, and star formation history. He makes extensive use of the Hubble Space Telescope and Keck telescopes in his research. He is the founder and faculty director of the successful Science Internship Program, a program in which high school students are mentored by UCSC researchers and work on cutting-edge STEM research projects. He received his Ph.D. in Astrophysical Sciences from Princeton University in 1989.

<https://evolution.calpoly.edu/stardust>

**Join the Astronomical
Society of the Pacific for a
free public event
celebrating astronomy!**

**Friday, October 18, 2019
1:00 PM to 10:00 PM**

San Francisco State University
Cesar Chavez Student Center, Jack Adams Hall

Presented with
San Francisco State University's
Women in Physics and Astronomy
Physics and Astronomy Club
Physics and Astronomy Department

FEATURED GUEST SPEAKERS

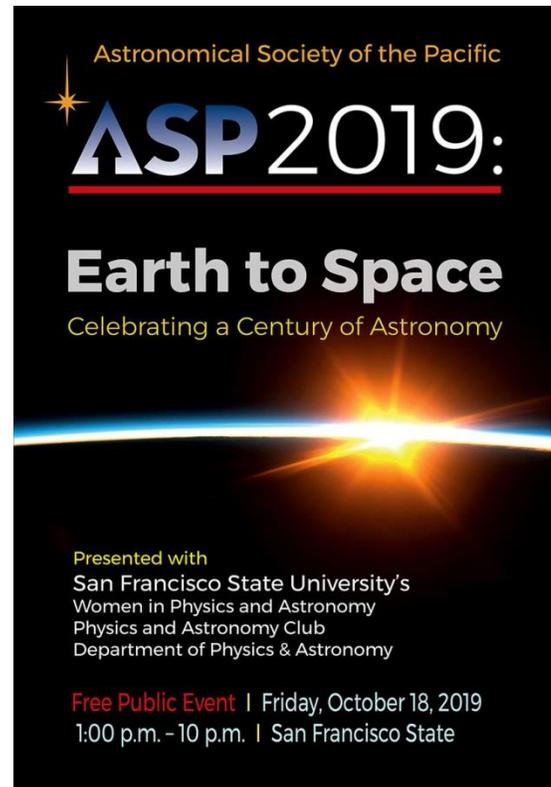
Andrew Fraknoi Professor, Fromm Institute, University of San Francisco
Kimberly Ennico Smith Staff Scientist, NASA Ames Research Center
Debra Fischer Professor, Yale University
John Brewer Assistant Professor, San Francisco State University

SPEAKER/PANEL TOPICS

Lunar Research and Exploration
Planets Beyond the Solar System
Preserving Planet Earth
Top Tourist Sights of the Solar System

ADDITIONAL ACTIVITIES

Observatory Open House
Planetarium Shows
Solar Viewing
Astronomy on Tap at The Depot



Location:

**San Francisco State
University,**

**1600 Holloway Ave, San
Francisco, CA 94132**

Next Star Gazing

October 26, 2019 from 7p.m. - 10 p.m., the CCAS and Beautify Cambria will be sponsoring a night under the stars. The event will be held at Santa Lucia Middle School located at 2850 Schoolhouse Lane in Cambria. This is a fund raiser to help maintain Cambria as a possible dark sky site. The suggested donation is \$10 with those 12 and under free. This event will replace our October star party at Santa Margarita Lake.

CCAS Officers

Feel free to connect with us!



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

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