



The Observer

SAN BERNARDINO VALLEY AMATEUR ASTRONOMERS

Member of The Astronomical League

<http://sbvaa.org/>



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Since 1958

January, 2017

Meeting:

January 14, 2017

Location:

First Christian Church
2102 E. Foothill Dr.
San Bernardino, CA

7:00 p.m.

Pre-meeting Dinner,
5:00 to 6:30 p.m.,

Pepper Steak
Restaurant
26589 Highland
Ave.
Highland, CA

After the meeting telescopes will be set up for viewing and members will be available to answer questions. Bring your telescope to observe with us.

*No telescope is too humble,
and beginners are always
made welcome!*

Program

The Sombrero Galaxy
An Island Universe

In late 2015 and early 2016, we watched six of a twelve part lecture series on *Experiencing Hubble: Understanding the Greatest Images of the Universe*. This month we will, as the above title says, look at the Sombrero Galaxy and gain an understanding of what we should learn from it.



As before, the program is presented by a gifted teacher and professor of astronomy from Northwestern University. Come and experience the wonder of Hubble photos and the meaning we can take from them.

SBVAA Officers

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Calendar of Upcoming Events

Jan 28, Outreach, White Water

Jan 31, Outreach, Crafton School, Redlands

Feb 2, Outreach, Alice Birney School

Feb 7, Outreach, Franklin School, Redlands

Feb 11, Club Meeting

Feb 25, Star Party

Mar 7, Outreach, Wilson School, Colton

Mar 11, Club Meeting

Club Dues are Due

Our esteemed treasurer wants you to know that club dues are due in January. Still just \$30. Make check out to SBVAA.

Don't make him send his collector to find you!



Club Meeting Dates in 2017



January 14
February 11
March 11
April 8
May 13
June 10
July 8 (Summer Social at Sizzler)
August 5 (Club Barbecue)
September 9
October 7
November 4
December 2, Holiday Party at
Shakey's, Redlands

**SBVAA Calendar of Scheduled Events
2017**

January 28, Star Party/Public Outreach
Whitewater

January 31, Outreach, Crafton School,
Redlands

February 2, Outreach, Alice Birney School

February 7, Outreach, Franklin School,
Redlands

February 25, Star Party, Location TBA

March 7, Outreach, Wilson School, Colton

March 25, Star Party, Location TBA

April 4, Outreach, Dominguez School

April 6, Outreach, Mentone School

April 29, Star Party, Location TBA

May 27, Star Party, Location TBA

June 23 - 25, GRANDVIEW Star Party

July 8, Summer Social at the Sizzler

July 22, Star Party, Location TBA

August 5, Annual Club BBQ

August 19, Star Party, Location TBA

**September 22 - 24, GRANDVIEW Star
Party**

October 21, Star Party, Location TBA

November 18, Star Party, Location TBA

As you no doubt noticed, quite a few dates are "TBA." We're waiting on the Wildlands Conservancy to finalize and publish their dates before we can schedule ours.

Stay tuned...



Vera Rubin

July 23, 1928, December 25, 2016

"In a spiral galaxy, the ratio of dark-to-light matter is about a factor of ten. That's probably a good number for the ratio of our ignorance-to-knowledge. We're out of kindergarten, but only in about third grade."

—Vera Rubin

As most of you have heard, the astronomy world has lost another of its great minds, Her specialty was galaxy dynamics and it was she who proved Fritz Zwicky's theory about the existance of "dark matter" was right.



Thank You

A big thanks to Robin for the photos of the club holiday party and the many others she has taken over the past year(s).

Club Holiday Party, 2016 Food, Fellowship and Fun

