

Sonoma County Astronomical Society

December 2014 E-Bulletin



501(c)(3) Scientific and Charitable Organization



Our 'Popcorn & Movie Night' was a big success! Many thanks to young Andrew P., from the Young Astronomers for his presentation on (Trans Neptunian Objects). It's always fun to see the younger members of SCAS active and involved in meetings. We will do this again next November!

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## Next SCAS General Meeting

Wednesday December 10, 2014  
7:30pm – 9:00pm  
Proctor Terrace Elementary School Auditorium  
1711 Bryden Lane  
Santa Rosa, CA 95404

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7:30pm – Meeting starts and general business
7:45pm – 'What's Up' segment
8:00pm – Coffee and Snack Break
8:15pm – Prof. Norbert Werner, Stanford University
9:00pm – Meeting concludes

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~Special Guest Speaker for December~



SCAS is very proud to present Professor Norbert Werner - Astrophysicist from Stanford University.

His topic will be:

### **‘THE BEATING HEARTS OF GALAXIES’**

The talk is about my research on the largest objects in the Universe - giant elliptical galaxies, groups, and clusters of galaxies. I show observations, which reveal how the enormous amounts of energy released when matter falls into supermassive black holes at the centers of these systems helped to sculpt the large scale structure of the Universe.



## December's Calendar of Events!

December 4<sup>th</sup>. Thursday – First Launch of the Orion Spacecraft!

View this event on [NASATV](#)

(Coverage begins at 4:30am Eastern, 1:30am Pacific)

December 10<sup>th</sup>. Wednesday – SCAS GENERAL MEETING

(7:30pm – 9:00pm)

December 13<sup>th</sup>. Evening, until Morning of December 14<sup>th</sup>.

[GEMINID METEOR SHOWER](#)

December 16<sup>th</sup>. Tuesday - Night Sky Fall Series, class #6 of 6 classes.

Robert Ferguson Observatory

(7:00pm - ?)

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January 14th, 2015 SCAS General Meeting

We will be meeting at the [Santa Rosa Junior College Planetarium](#) on the Santa Rosa Campus.

(7:30pm – 9:00pm)



I am planning to have FREE on campus parking for our members that night.

[What's Out Tonight?](#)

Evening Sky Chart for December 2015
Download the (pdf) from the link. It's full of all kinds of great information.

Contact us

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Artist's depiction of the Orion Spacecraft