



Eastbay Astronomical Society Presents

Saturday November 15, 7:30 – 9:00 PM

Chabot Space and Science Center

Hauben Room

Join the Eastbay Astronomical Society for our free monthly presentation on the latest in space and astronomy! In addition to our honored guest speaker, we will feature news from Chabot SSC and the EAS and be giving away door prizes to a lucky few. Everyone is also invited to free telescope viewing afterwards on the observation deck (weather permitting, of course)!

Make Your Own Radio Telescope

Steve Berl

Eastbay Astronomical Society and Chabot Space and Science Center

Dinner with the Speaker: You are invited to join our speaker for dinner beforehand, starting at 5:30 pm at **Hunan Yuan Restaurant at 4100 Redwood Road in Oakland, CA.**

Imagine a telescope that you can use 24 hours a day, rain or shine. It's not a fantasy machine or something costing billions of dollars, orbiting in space. **A radio telescope can monitor the heaven regardless of clouds, sunshine, light pollution, or even the Carl the Fog!**



Have you ever wanted to build your own radio telescope, or wonder what you could discover by using one? Steve Berl, longtime volunteer at the Chabot Space and Science Center and member of EAS, will show you how **he built his own personal radio telescope** and what you can monitor with your own itty bitty radio telescope. He will bring in a few demos and fun equipment for you to check out and answer your questions on amateur radio astronomy. He will also show you how you too can build your own radio telescope and monitor the heavens. Check out the noise around the black hole in the center of our galaxy; listen to the destruction of meteors as they streak through our atmosphere; alert yourself to the electromagnetic activity on our Sun! Steve will show you how a radio telescope can open up a normally invisible portion of our sky and send you to another level of observation and understanding.

See data collected by Steve's SuperSID Solar Ionospheric Disturbance Receiver: <http://bit.ly/chabotradiotelescope>

Find out how to make your own itty bitty radio telescope: <http://bit.ly/ittybityradiotelescope>

About Steve

Steve Berl has volunteered at Chabot Space and Science Center for many years and is a fixture on the telescope deck both night and day, looking through the telescopes and showing people the radio sky through his radio telescope during daytime solar observing. He is very interested in all aspects of astronomy, but is of course especially interested in radio astronomy. Steve has helped build up the EAS machine shop at Chabot to assist in the fabrication of parts for telescopes both on the deck and for the telescope maker's workshop. He is currently experimenting with the **forward scatter meteor detection** technique, where terrestrial VHF radio transmissions bounce off of meteor trails and can be received on the ground, allowing you to "see" and "hear" meteors during the day or night-even meteors too small to spot in a dark sky!



COST: Free! Donations are welcome and very much appreciated.

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Much love to Chabot Space and Science Center: chabotspace.org