Founded in 1924 at Chabot Observatory, Oakland, California

Volume 80 Number 3 November 2003

## Dr. Gibor Basri

Speaking On:

The Kepler Extrasolar Planet Search Project

Saturday, November 29, 7:30 pm Chabot Space & Science Center Physics Lab, 2nd Floor, Spees Building

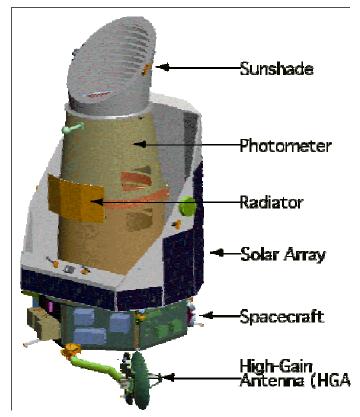
It wasn't all that long ago that astronomers couldn't say for certain whether any planets existed at all, outside our own solar system. It was ridiculous to think that in all the impossibly vast reaches of the universe, there weren't any other planets around any other stars, but there didn't seem to be a way to prove whether there were, or not. Then, in 1991, scientists at the Arecibo Radio Telescope in Puerto Rico, noticed signal anomalies from the pulsar B1257+12 (a rotating neutron star that acts as a sort of space-going flashing beacon) which could only be explained by postulating the nearby existence of a large planet. Over the years, more than 100 more "extrasolar" planets have been discovered by various teams around the world, but they're all of the gas giant variety; those are the only ones we can detect, due to the effect their gravitational pull has on the stars they orbit. Current instrumentation cannot detect Earth-sized planets.

In 2006, NASA plans to send a space telescope into orbit to continuously and simultaneously measure the light output of more than 100,000 stars, in a field of view about the size of your hand held at arms' length. Dr. Basri is the Co-Investigator of this mission, and will tell us how the mission preps are going, and what they hope to discover once their telescope satellite is up and running.

Gibor Basri, born May 3, 1951 in New York City; BSc Physics, Stanford University, 1973; PhD in Astrophysics at



University of Colorado, 1979; joined faculty at UC Berkeley's Astronomy Dept in 1982; attained full professorship in 1997; author of more than 100 technical papers, recipient of numerous awards, and CSSC Board Member.



The Kepler space-based phtometer satellite

## Not too late to Renew!



Look for the year on your address label. If it's **2004**, you're safe; you've already renewed. If it's **2003**, then you haven't renewed, yet, and this will be your last issue (oh noooo!)

## DINNER WITH THE SPEAKER: Dr. Gibor Basri

5:00 pm Saturday, November 29 HUNAN YUAN 4100 Redwood Rd., #11 (next to Safeway) Oakland (510) 531-1415 No need to confirm – just show up!

### Inside This Issue:

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Visitors to Crater Lake take in the great views of the landscape during the day, and some amazing dark-sky sights at night. Photo by L. Lazzeretti

### On the Road Again

by Linda Lazzeretti

hile on yet another 'road trip', this time to Crater Lake, I found myself unexpectedly among the stars and their gazers again. This time it was the Crater Lake Institute with its chief amateur astronmoer Owen Hoffman. Owen and his fellow institute members decided to lobby the Crater Lake

Lodge owners to promote dark skies gazing being that the lake is one of the darkest sky sights in all the national parks. He and fellow institute members Ron Cranson (geologist) and Ron Mastrogiuseppe (fire ecology) set up binocular lenses on the famous Crater Lake Lodge veranda above the wonderous caldera. They focused on the 60,000 year old Pumice Castle on the opposite side of the rim highlighting every strata in the rock with their powerful lenses.

Visitors rocking away in their chairs become immediately interested. Once Owen 'had' them, he began the real 'pitch'... Mars viewing at 10:15 down the rim and a night of summer star gazing. Lodge guests were earger to follow him and his numerous astronomical instruments to the soon-to-be 'star party'. Some even had telescopes of their own to add to the festivities.

Owen actually knows one of our own, Jane Houston Jones! While he hasn't met her personally, he has communicated via e-mail with her and the SF Sidewalk Astronomers. Small world! as are the increasingly smaller dark skies these passionate folks are striving to protect by turning on national park visitors to the mysteries of them and their precious darkness. They even gave me one of their "I LOVE DARK SKIES" badges, a nice way to remember them and the brilliant star-studded skies at Crater Lake.

P.S. If you would like to communicate with the institute, you can reach it at: craterinst@moscow.com or Owen Hoffman directly at: pkrnger@aol.com ★

### Odds 'n Ends

### Email request

Have you changed your email address lately? Were you at @Home.COM, and then @attbi.COM, and now you're at @comcast.net? Maybe you've changed jobs and forgot to tell us. Well, whatever the case, we'd like to hear from you if you have changed your email address. Please send an email from your current preferred email address, include your name, and your old address so that we can update our records. Mail it to EastbayAstro@Yahoo.com - thanks!

Bruce Skelly, EAS Yahoo web administrator

### For Sale:

### IntesMicroMakNewt56 w/upgrades

I have the top rated Intes Micro MN-56 with JMI-DX-1, 2 speed focuser, installed by Joe Sunseri of Earth&Sky plus Hard Dew Shield and mounted w/ Parallax Rotating Rings (the cat's meow) on a Losmandy universal plate; replaced the orig, finderscope w/ Lumicon 25x50 right Angle "SuperFinderscope".

Have beautiful wheeled "thermadyne" transport case that

fits assembled scope. Original Owner of all gear. SWEET Rig. SF Bay Area preferred for Inspection and Sale (asking \$1200); do check "new" prices for the package(\$1700 + tx & shipping). Member EastBay Astronomical Society. "Moving on Up" to L A R G E scope. contact: harrysue@jps.net



### What's up at Chabot

New Film: Cosmic Voyage

A breathtaking journey through time and space! Zoom from the surface of the Earth to the largest observable structures of the Universe, and back down to the sub-nuclear realm—a guided tour across

some 42 orders of magnitude! Explore some of the greatest scientific theories, many of which have never before been visualized on film. Cosmic Voyage was nominated for an Academy Award® in the Best Documentary Short Subject Category. First showing on Friday, November 28, at 1:30pm, and then 3:30pm and 8:30pm ★

# EASTBAY ASTRONOMICAL SOCIETY MEMBERSHIP APPLICATION FORM

NAME: (please print)	Date:
ADDRESS:	
CITY, STATE, ZIP	
DAY PHONE:_()	EVE PHONE:_()
EMAIL ADDRESS: (please print)	
MEMBERSHIP CATEGORIES:	
Important Note: If your address label has 1004 ne  ☐ Regular	ext to your name, you are already renewed for 2004!
☐ Family	
☐ Student(digital newsletter only	
□ Contributing	
☐ Sustaining\$60 or	r more
☐ Optional, tax deductible donation(s) to any of the	\$32.95 \$29.00 be in to the Treasurer before September 30th for prompt handling! he projects of the Eastbay Astronomical Society: ct Fund • Betty Neall Youth Award Fund \$
Total Enclosed:	
Please mail this form and your check or money or	der payable to:
Eastbay Astronomical Society 19047 Robinson Road Sonoma, CA 95476-5517	
For further information, please contact Treasurer addcstone@earthlink.net, or write him at the Sonor	and Membership Chairman Don Stone at (707) 938-1667, ma address, above.
As a cost savings to us, instead of getting a mailed The .pdf version of the newsletter is available f And,	I newsletter, would you prefer to be notified via email that: For download from our website
$\square$ Are you interested in volunteering your time/eq	quipment for public stargazing at Chabot?
☐ Are you interested in doing other volunteer wor	rk for Chabot and/or the Eastbay Astronomical Society?

## Join the Eastbay Astronomical Society

www.eastbayastro.org



What you get when you join the Eastbay Astronomical Society:

Monthly newsletter, The Refractor, with interesting articles on currently visible constellations, upcoming lectures, club events, and other local news.

**Monthly meetings with featured guest speakers** on diverse subjects having to do with astronomy and the space sciences (CCD astro-photography, planetary geology, finding deep-sky objects with telescopes or binoculars, NASA space probes, etc.), and are usually held in the 2nd Floor Astronomy classroom on the

first Saturday of the month at 7:30pm. Look for direction signs.



**Yearly events**, including but not limited to: Meteor shower watches, the annual EAS awards dinner, Bort Meadows star party (local), Barcroft Station high-altitude star party in the White Mountains (several days, about a 6-hour drive from the Bay Area).

Weekend stargazing at Chabot on Friday and Saturday nights (weather permitting). Along with the big 'scopes (Rachel and Leah,

the 20" and 8" antique refractors housed in two separate observatory domes), members are welcome to bring their own equipment to gaze at the current night sky's wonders, receive free volunteer training to help Chabot with public viewing, get advice on how to buy or use equipment, and just have a good time chatting with old and new friends. As a member, you'll also have the satisfaction of contributing to the educational opportunities for children in our community.



Automatic membership in the Astronomical League, with quarterly newsletters. Opportunity to subscribe to Astronomy or Sky & Telescope at discount prices. Special discount rates for purchases from various astronomical vendors.



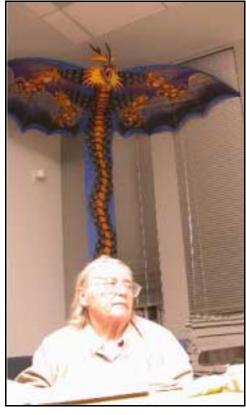
Also, in conjunction with the Chabot Space and Science Center, the Eastbay Astronomical Society also sponsors the Telescope Makers' Workshop at Chabot; you buy the mirror blank and grinding tool; the Workshop provides the instruction, grinding and polishing supplies, and configuration testing free of charge. You can make your own telescope, and with a little luck, it will be optically superior to most anything you could buy for twice the price from the stores or catalogues(!) And you will have a much better idea how telescopes work. Every Friday night in the Physics Lab., 7 - 10 pm.- look for the signs.

Don't delay! Join the Eastbay Astronomical Society, and begin expanding your knowledge of, and appreciation for, the night sky, our world, and the Universe!

## In Memorium Anne Steiner Creese 1923-2003

nne was born in Salt
Lake City Utah on October 16,
1923. After obtaining a Masters
Degree in Librarianship at UC
Berkeley, she worked as Assistant Librarian at the San Leandro
Library (in the old Carnegie library). She married Franklyn
Creese 57 years ago and joined
the Eastbay Astronomical Society in 1948 where she was Librarian for half a century from
the founding of the Burns Memorial Library until her death.

Long interested in music, she joined an opera workshop in Berkeley that Marsden Argal had formed. When that failed after about ten years she formed her own opera workshop in San Leandro the "SLOW" (San Le- Carter Roberts, andro Opera Workshop). They also had their own orchestra, the Victoria Chamber Orchestra. She also sang for more than 20 years with what became the "Lamplighters." Franklyn encouraged her music so she took classes at San Francisco State University and earned another masters degree. Abandoning her library career, except at Chabot Observatory, she devoted most of her time to music. Over the years she taught at all four campuses of the Peralta Community College system, most recently at Laney and Merritt. Her courses included piano, opera history and opera workshop. She conducted church choirs for many years. Her favorite piece was Messiah by Handel which was usually performed with several choirs. In recent years she conducted the "Sing it yourself Messiah."



The EAS presented her with the Helen Pillans Award in 1990 and made her a Life member in 1999.

Her library work culminated with leading the team that merged the Chabot Observatory Library with that of the EAS to prepare the Chabot Space & Science Center Library for public use. This will be a major resource for researchers and visitors.

She died on October 21, 2003 after a short illness.

Chabot Space & Science Center's Executive Director Alexandra Barnett, has decreed

that CSSC will dedicate a seat in the Ask Jeeves Planetarium in her memory.

Carter Roberts, President, Eastbay Astronomical Society

 $\Rightarrow$ 

I'm sorry I wasn't able to obtain a more, perhaps, cheerful picture of Anne, but I had this one that I took from several months ago. It was taken during an EAS Board Meeting, in the Soda Board Room of the Ron Dellums Building. I don't know what I was thinking of when I took it, but it occurred to me that this image captured the spirit of Anne's dedication, devotion, and almost fiercely protective nature toward her libray, which she and her husband, Frank, have been taking care of for more than a decade.

We, and the books, will miss her. Ed.



## Editor's News 'n Views

Howdy Astro Fans! Because our last meeting was near the *beginning* of the month, and this month's meeting is near the *end* of the month, it's been nearly two months since you've seen your last newsletter. It's been a while, and

there's lots to report, so let's get started! On October 5th, the EAS supplied telescopes for public viewing at the annual **Japanese Moon Festival** at the **Lake Merritt Garden Center**. We've been doing this for at least four years, now, and this year we showed the Moon and Mars to the festival attendees. **Paul Hoy, Dan Madsen, Carter**, and myself were there doing the viewing, and, as usual, the free Japanese dinners were yummy! On October 19th, Carter, Dave, Paul, Dan, and myself did some daytime solar observing in Richmond's Miller-Knox Shoreline Park for the **El Sobrante Boy Scouts**.

Then on the 29th, the EAS star partied with Lake **School Elementary in San** Pablo. It was little too windy, but that didn't stop Astro Wizard Dave Rodrigues, Mark Knowell, George Takahashi, or myself from viewing the Moon, Mars, Andromeda Galaxy, Pleiades, and other stuff, much to the delight the students, parents, and teachers, there. Then, we were invited by Seshan Krishna of the Lake Merritt Junior Center for a mini-star party; this time it was just the Astro Wizard and me, and is the second



These young Weebalos checks out sunspots in white light. Photo by D Saito

time in two years that the EAS has helped out, there. The Junior Center is poised to do some major additions and renovations to the building, and the contractor in charge of the project wants to consult us for what is needed to install a decent, vibration-free "telescope setup pad" out on the rear porch area. Pretty cool, and they could really use one, too; the back porch where we were is shakey (for telescopes). Finally, on Nov 14th, we did a very well attended *Young Astronomers Night* at the **Fruitvale Elementary School**, organized by teacher **Claire Stoermer**, with the usual suspects (Paul, Dan, myself and, well, Dave *would've* been there, but got stuck in SF-to-Oakland commute traffic) (ugh!).

The first three weekends of November, we've been having pretty rotten weather, including the weekend of the lunar

eclipse, so we missed out on that, locally. However, during the nice, clear weekdays, we've been seeing some rather spectacular naked-eye sunspots, solar flares, and even some mid-latitude aurorae happening. Chabot Volunteer Lynn Bechtel, noticed the color of the light in her house after midnight had changed to an unusual shade of red, so she took a peek outside, and saw a large area in the



Dan Madsen shows the kids Mars in a telescope and his self-produced Power Point presentation. Photo by D Saito

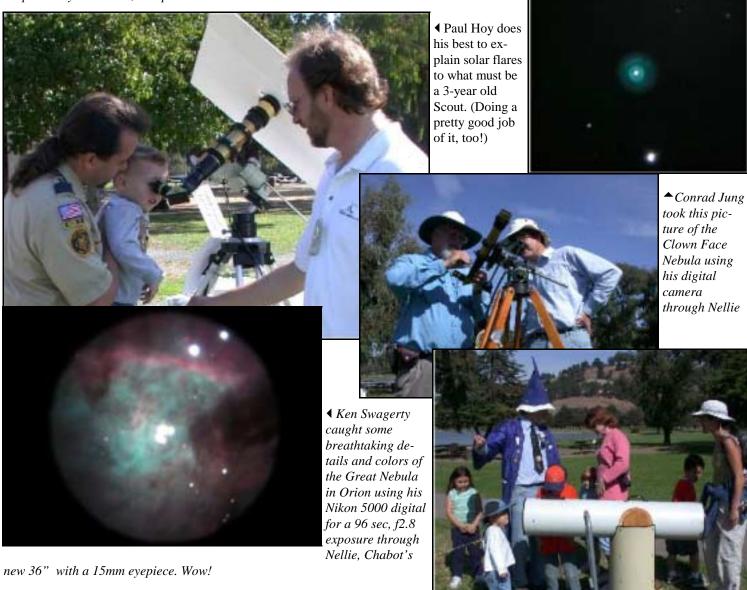
northeast sky glowing red. Your classic mid-latitude aurora, seen from Hayward, no less! In fact, the strongest solar flare in recorded history (the last 21 years, from 1982), occurred on November 4th - an X-Class 28. The last super-flare that even came close was an X-Class 20, during the last 11-year solar max of 2001. The large sunspots and solar flares continue even now. If you get a chance (and you know EX-ACTLY how to look at the Sun, safely), check it out.

And finally, some important announcements:

- 1) There is NO EAS meeting for the next month (December, 2003), BUT, we'll have a kind of Post Holiday Season Party Lite (w/speaker) for our January 3rd meeting.
- 2) Mark your calendars the **2004 EAS Annual Awards Dinner** will be held on Sunday, March 7, up at the Chabot Space & Science Center, Planetary Landscapes Hall.
- 3) Pretty much ALL of the EAS club meetings in 2004 will be held on the first Saturday of each month.
- 4) **AstroCon 2004** will be hosted by the EAS and AANC (Astronomical Association of Northern California) here in Oakland. There will be lots of famous and vastly interesting speakers and events from July 20 24, so again, mark your calendars. http://www.astrocon2004.org/ for more details.
- 5) Results of the Nominating Committee for club officers and positions for 2004: President– Carter Roberts, Vice-President– Phil Crabbe, Secretary– Linda Lazzeretti, Treasurer– Don Stone, Editor– Don Saito, Meeting Event Coordinator– Dave Rodrigues, Meeting Welcomer– George Roush, Refreshments– Don Saito and Linda Lazzeretti, TMW Director– Paul Zurakowski, Director of Equipment– Ken Swagerty, Librarians– Paul Hoy and Frank Creese (co-directors), Special Groups Coordinator– Terry Galloway (Astrophotography Group I/C Conrad Jung, Occultations Group I/C Mark Gingrich), Telescope Loan Officer– Alan Roche, Events Coordinator– Bruce Skelly, and Club Historian– Alan Fisher. And that's it for now! <whey! > ★

## Spare Shots

All photos by Don Saito, except one



## Chuck Smith's very cool homebuilt 6" truss tube telescope

▶ The Astro-Wizard at it again! (Imagine what the kid at the eyepiece must be thinking.)

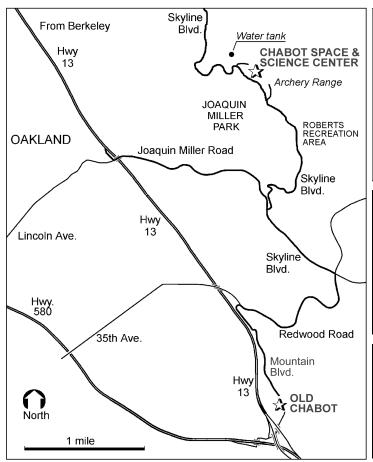
Chabot Volunteer
Telescope Operator,
Chuck Smith, applied
his considerable
woodworking and design talents to making
this beautiful "suitcase
telescope." I've looked
through it, and it
works great,
too. Prepare
to be impressed!
Ed.











### FUTURE CONJUNCTIONS

2003

Nov 29 7:30pm EAS General Meeting at Chabot

Dec 1-31 No EAS General meeting this month!

11 EAS Board Meeting at Chabot

2004

Jan 3 EAS General Meeting/Holiday Party at Chabot

8 EAS Board Meeting at Chabot

18 EAS-Only Star Party w/Rachel and Leah

Feb 7 EAS General Meeting

### **Eastbay Astronomical Society**

President: Carter Roberts (510) 524-2146
cwroberts@earthlink.net
Vice President: Phil Crabbe II (510) 655-4772

Vice President: Phil Crabbe II (510) 655-4772
Treasurer, Membership: Don Stone (707) 938-1667
ddcstone@earthlink.net

Articles and photos for *The Refractor* are encouraged. Deadline for the October issue is December 12, 2003. Items may be submitted by mail to the editor, Don Saito, 3514 Randolph Avenue, Oakland, CA 94602-1228. Internet email address: donsaito@pacbell.net Hm: (510) 482-2913.

### Join the Eastbay Astronomical Society

- ☐ Regular, \$24/year ☐ Family, \$36/year
- ☐ Contributing, \$40/year ☐ Student, \$15/year (digital
- ☐ Sustaining, \$60/year or more newsletter, only)

Contact: Don Stone, EAS Membership Registrar

Telephone: (707) 938-1667 Email: ddcstone@earthlink.net Mail: 19047 Robinson Road, Sonoma, CA 95476-5517