

THE EAST BAY AMATEUR RADIO CLUB, INC.

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# THE BLOWN FUSE

CLUB STATION W6CUS

VOLUME LXVI NUMBER 5

MAY 2018

## EBARC Meetings

May 11, 2018, 7:30 p.m.

"Earth-Moon-Earth"

Gary Lauterbach, AD6FP



EBARC meets this month at El Sobrante United Methodist Church, 670  
Applan Way, El Sobrante (enter parking opposite 5156 Argyle Rd.)

The Executive Board meets monthly before each general meeting. For the date,  
time, & location, contact President Jay Sparks, KJ6HSH, at 384-4233.

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THE EAST BAY AMATEUR RADIO CLUB, INC.  
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El Cerrito, CA 94530

*The Blown Fuse* is published monthly by the East Bay Amateur Radio Club, Inc. and is free to its members. *The Blown Fuse* welcomes articles of interest to its members and amateur radio in general. *The Blown Fuse* reserves the right to edit or reject any material submitted. Material submitted becomes the property of *The Blown Fuse*. Permission is hereby granted to reproduce material printed herein provided proper acknowledgment is given. Editor: Sharon Primbsch, AA6XZ

Deadline for June issue: Tue., May 29<sup>th</sup>

*[Articles may be submitted by "snail" mail, by dictation over the 'phone 510-741-8227, or by e-mail to aa6xz@earthlink.net]*

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## Temporary Meeting Place!

El Sobrante United Methodist Church  
670 Appian Way, El Sobrante

Parking entrance is opposite 5156 Argyle Rd.  
GPS coordinates: 37.981938, -122.294720

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## May 11<sup>th</sup> EBARC Meeting

Peter Hoffman, W6DEI

At our May meeting Gary Lauterbach, AD6FP, will discuss "Earth-Moon-Earth Ham Radio."

DXers thrill at a contact with an exotic and distant location like Heard Island or Turkmenistan, but you can hardly get more distant and exotic than the moon. Hams have been making contacts with other Earth-based stations by bouncing radio signals off the moon (EME) for many years. With the advent of weak-signal digital modes like JT65 it no longer takes expensive equipment, gigantic antennas and powerful amplifiers to be successful.

Gary, of the Stanford Amateur Radio Club, has been doing EME for nearly 20 years. His

presentation will include some history of EME as well as current activities; what bands, modes, and antennas are commonly used. He will also discuss how to deal with tracking, frequency stability, Doppler shift, and path losses.

I'm expecting this will inspire some (or many) of us to try our hand at this exotic niche of ham radio. So don't miss the May meeting.

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## Technician License Class News

Ken Fowler, KO6NO

As of April 8<sup>th</sup>, there are nine registrants for EBARC's class to prepare applicants for the Technician license. The class started April 6, 2018 and ends June 8. It has been meeting 6:30 p.m. to 9:00 p.m. at El Sobrante United Methodist Church, El Sobrante. Eight registrants were able to attend the first session. The classroom is a nice fit for a class this size, and I think I will limit future class sizes to ten.

Thank you to all who helped with notices and flyers that were posted. We had one signup at Eventbrite, three from a Google search, one from *The Blown Fuse*, several from CERT groups, and one that I contacted by email. Most students are from Richmond, but three are from Hayward. The predominant interest is for Emergency Preparedness.

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## Our Wonderful VE Team!

Sharon Primbsch, AA6XZ

Our EBARC/ARCA/ORCA VE team gave its biggest quarterly session ever on April 22<sup>nd</sup>! We had 31 candidates. We administered 37 tests (passed/no pass): Tech 20/1; General 11/1, and Extra 4/0. Licenses earned: 17 new Techs, 9 new Generals, and 4 new Extras. Only one person went home empty-handed. The fearless VEs (besides myself) this time were; Varon Smith, Morie Oberg, Djovida, Bruce Gillis, Albert Goto, and Randy Jenkins. Thank you all for a very hectic morning!

## Please Use Our “Meetup” Group Martin Rothfield, W6MRR

Meetup.com is a social media platform that allows people to find groups and organizations of interest. We have had a presence on it for over a year. It has attracted a few people to meetings who perhaps will become members.

When you become a member (free) you register then enter topics of interest and various groups are displayed. When you select a group you see their information and events. If you select to join a group you will receive emails from them. There is a settings page that allows very fine control of what email is received.

We have 74 members on Meetup, but I have no idea of their level of interest and how much of our mail they receive.

We might get more interest and involvement if we had members participate. You can use it to get reminders of when our meetings are coming up. We can also use it as platform to exchange ideas for planning events and activities as well as yacking in general.

Our group is <https://www.meetup.com/East-Bay-Amateur-Radio/>. If you're signed in to Meetup, click *Join Us*. If you're not already a Meetup member, first go to the link, then create an account. You can sign up via Facebook, Google, or just your email account.

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## General Meeting Minutes Robin Spalding, N6RLS, Secretary

**Opening:** April 13, 2018, 7:40 p.m. at the United Methodist Church meeting room, El Sobrante. No introductions. The big news is that the Church bails us out again. Reports say the library repairs (it was arson) will take up to a year. Asbestos removal and bringing bathrooms up to ADA requirements, in addition

to fixing actual fire-related damage, is taking longer than expected.

**Public Events/Education:** Field Day is 23-24 June. There is a new person (Event Director) approving permits for the City of Berkeley. She has new concerns; insurance language to cover us at César Chávez Park, and our plans to stay overnight in the park. She is involved in removing homeless people from the park, and allowing us to stay there at all might also be an issue.

Sharon noted that there will be a VE ham test session on 22 April at the Oakland OES office, opening up at 8:30 a.m. Tell your friends.

**Announcements:** Rick Taft mentioned that a fellow Chabot Space & Science Center person (Steve Berl, KK6IWN) had approached him about our possibly having some club do Field Day ops there. Might we be interested? “Yes” said Jay, and the other members present seemed excited at the prospect. Rick noted there is already a Plexiglas-enclosed ICOM HF station on the premises at Chabot. There has been talk over the years of installing a proper ham station there. The site is at 1,500’ and there are already lots of facilities in place. This is very preliminary; Chabot Management is not yet involved in officially considering Field day ops there. Side note: every Friday & Saturday the telescopes at Chabot are open free to the public.

Martin: Space Technology at Cal (STAC) has a balloon flight on 28 April. He will send call-sign and other details soon.

**Attendance:** There were 19 roster signers; 14 members and 5 non-members.

**Closing:** There being no further business, the membership meeting was adjourned at 7:55 p.m.

**Next Meeting:** at 7:30 p.m. on Friday, 11 May, 2018.

**Presentation:** Alan Biocca, W6AKB, did an excellent intro to the world of 3D printing, with Chris Biocca, KG6LXL, operating an actual printer, printing out ham accessories. Much info was given. Notes and links will be on the EBARC website.

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Many thanks to Michael McMillan, K6MCM, for preafrooding this month's *Blown Fuse*.

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## Future Bay Area Events

- Current Bay Area Public Service Events: See [www.ebarc.org](http://www.ebarc.org), click on "Current Events", then scroll to "Public Service."
- EBARC, ORCA, and ARCA sponsor joint ARRL VEC Amateur Radio Test Sessions quarterly at 9 a.m. in the Media Room, 1605 Martin Luther King Jr. Way (at 16<sup>th</sup> St.), Oakland. The remaining test dates for 2018 are Jul. 22<sup>nd</sup> and Oct. 28<sup>th</sup>. The fee for 2018 is \$15. Info: 510-918-4627 or 510-741-8227.
- CoCoCo ACS Training: Details from [mcmillan50y@yahoo.com](mailto:mcmillan50y@yahoo.com), [www.cocoacs.org](http://www.cocoacs.org), or via RACES net, 6:45 p.m., Thursdays on 145.11 MHz.

The East Bay Amateur Radio Club, founded in 1947, is a California non-profit organization of amateur radio operators in Contra Costa and Alameda counties. The club is open to anyone interested in amateur radio. Annual dues are \$30 for individual membership, \$35 for a family membership, and \$10 for students K-12. For information, send email to [ebarc.w6cus@gmail.com](mailto:ebarc.w6cus@gmail.com), contact any EBARC officer, see Web page [www.ebarc.org](http://www.ebarc.org), or write EBARC, P.O. Box 1393, El Cerrito, CA 94530. You can also follow us on Twitter using @w6cus, or on Facebook's "East Bay Amateur Radio Club."

## 2018 East Bay Amateur Radio Club Executive Committee

Jay Sparks, KJ6HSH, President.....	384-4233
Peter Hoffman, W6DEI, 1 <sup>st</sup> VP - Program Chair.....	684-6543
Ken Fowler, KO6NO, 2 <sup>nd</sup> VP - Hospitality.....	222-0830
Sharon Primbsch, AA6XZ, 3 <sup>rd</sup> VP - Membership / <i>Blown Fuse</i> Editor.....	741-8227
Robin Spalding, N6RLS, Secretary / Twitter .....	528-1144
Randy Jenkins, KA6BQF, Treasurer / Finance Committee Chair.....	707-557-5521
Jim Fast, KK6NDG, Member-at-Large .....	237-7145
Member-at-Large .....	

## 2018 EBARC's Other Committee Heads and Contacts

W6CUS Trustee; Jack Burris, K6JEB.....	415-305-2547
Club Station Manager; Stanton Gleason, KD6SWU.....	385-4044
Field Day & Education; Ken Fowler, KO6NO .....	222-0830
Webmaster, Facebook, & Meetup; Martin Rothfield, W6MRR .....	705-1199
Social & Digital Committees Chair .....	
RFI Committee Chair.....	
Historian .....	

## AMATEUR RADIO NETS

NET	DAYS	LOCAL TIME	FREQ, MHZ
West Contra Costa EMCOMM Net	Thurs	1845 (PL 82.5-)	145.110
KARO/ECHO ARES/RACES(ACS) Net	Thurs	~1900 simplex	146.415
EBARC "Explore Net" (HF)	Mon	1930 (USB)	28.425
NALCO RACES/ARES Net	Thurs	1915 (PL 131.8+)	440.900
Oakland ARES Emergency Communications Net	Thurs	1930 (PL 77-)	146.880
Contra Costa Communications Club Net	Thurs	1930 (PL 82.5-)	145.110
Tech Net	Thurs	2000 (PL 82.5-)	145.110
"Over the Hill Gang" Breakfast/Commute Net	Mo-Fr	0710 (PL 82.5-)	145.110
Northern Calif. Net VHF Session (traffic)	Daily	1930 (PL 107.2-)	145.410
"QRM Net"	Tues	1930 (PL 82.5-)	224.300
9 a.m. Talk Net	Mo-Fr	0900 (PL 100.0-)	145.230
Youth Net	Sat	1400 (PL 100.0-)	145.230

RACES(ACS), West CoCoCo: Mike McMillan, K6MCM, [mcmillan50y@yahoo.com](mailto:mcmillan50y@yahoo.com), phone 510 223-3052. Frequencies: #1=145.110-, #2=147.570s. ACS details are at [www.cocoacs.org](http://www.cocoacs.org)

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## IC-PW1 | HF/50 MHz Amplifier

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- Wide ALC adjustable range • Full duty cycle • Auto antenna tuner built-in • Auto AC input voltage selector is employed



## IC-7851 | HF/50MHz Transceiver

- 1.2kHz "Optimum" roofing filter • New local oscillator design • Improved phase noise • Improved spectrum scope • Dual scope function • Enhanced mouse operation for spectrum scope



## IC-7100 | All Mode Transceiver

- HF/50/144/430/440 MHz Multi-band, Multi-mode, IF DSP • D-STAR DV Mode (Digital Voice + Data) • Intuitive Touch Screen Interface • Built-in RTTY Functions



## ID-5100A Deluxe

VHF/UHF Dual Band Digital Transceiver

- Analog FM/D-Star DV Mode • SD Card Slot for Voice & Data Storage • 50W Output on VHF/UHF Bands • Integrated GPS Receiver • AM Airband Dualwatch



## IC-7700 | HF/50MHz Transceiver

- The Contester's Rig • HF + 6m operation • +40dBm ultra high intercept point • IF DSP, user defined filters • 200W output power full duty cycle • Digital voice recorder



## IC-718 | HF Transceiver

- 160-10M\*\* • 100W • 12V operation • Simple to use • CW Keyer Built-in • One touch band switching • Direct frequency input • VOX Built-in • Band stacking register • IF shift • 101 memories



## ID-4100A | VHF/UHF Dual Band Digital Xcvr

- Compact, Detachable Controller for Flexible Installation • DV/FM Near Repeater Search Function • Apps for iOS™ and Android™ devices • Wireless Operation with VS-3 & UT-137 Bluetooth® Headset & Module • MicroSD Card Slot



## IC-7610 | HF/50 MHz All Mode Transceiver

- Large 7-inch color display with high resolution real-time spectrum scope and waterfall • Independent direct sampling receivers capable of receiving two bands/two modes simultaneously



## IC-2300H | VHF FM Transceiver

- 65W RF Output Power • 4.5W Audio Output • MIL-STD 810 G Specifications • 207 alphanumeric Memory Channels • Built-in CTCSS/DTCS Encoder/Decoder • DMS



## IC-V80 | HD 2 Meter FM Transceiver

- Tough construction • 750mW loud audio • Powerful 5.5W of output power • IP54 and MIL-STD-810 rugged construction • Built-in CTCSS/DTCS • WX channel & weather alert function



## IC-7300 | HF/50MHz Transceiver

- RF Direct Sampling System • New "IP+" Function • Class Leading RMDR and Phase Noise Characteristics • 15 Discrete Band-Pass Filters • Built-In Automatic Antenna Tuner



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THE BLOWN FUSE

MAY 2018

PAGE 6