

THE EAST BAY AMATEUR RADIO CLUB, INC.

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THE BLOWN FUSE

CLUB STATION W6CUS

VOLUME LXV NUMBER 10

OCTOBER 2017

EBARC Meetings

October 13, 2017, 7:30 p.m.
"Antenna Modeling Workshop"
EBARC Members



The East Bay Amateur Radio Club meets this month at the
El Sobrante Library, 4191 Applan Way, El Sobrante.

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 Nov. issue: Tue., Oct. 24th

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

October 13th EBARC Meeting **Peter Hoffman, W6DEI**

For the October EBARC meeting, the program will be the first part of "Antenna Modeling". We're going to take a different approach and conduct a hands-on workshop with everyone participating. Regardless of how much you know about electronics and antennas or how long you've been involved in ham radio, you should come out of the workshop with the ability to model basic antennas such as dipoles, verticals, and yagis for bands from HF to microwave. I think you'll be surprised at how easy modeling is.

The workshop will combine a live presentation, a pre-recorded video tutorial, but mostly a hands-on experience. The software we'll use is 4nec2, and you can download it for your Windows-based laptop at the following website: <http://www.qsl.net/4nec2/>.

There are several reasons we've chosen 4nec2 among the many antenna modeling software packages;

(1) it's easy to use

(2) it's quite powerful in its ability to model and to optimize an antenna design
(3) last, but not least, it's FREE.

So download and install a copy of 4nec2 on your laptop and bring it to the October meeting if you can. Not everyone needs to have their own PC, as we can share a laptop between several people. We'll also have copies of the software on thumb drives in case you don't get the chance to download and install it yourself. Finally, if you're already familiar with 4nec2, EZNec, or some other modeling software, you can really help by being an elmer for the workshop. It's definitely a group effort. So come prepared!

If you have any questions, comments or suggestions please email me, Peter w6dei at w6dei@arrl.net.

Our November meeting will feature a speaker from SETI. The other part of "Antenna Modeling" will return in January. You can always find future programs on our website's "Current Events" page.

President's Message **Jay Sparks, KJ6HSH**

Fall is in the air. Several exciting events are happening this month; Pacificon, on the weekend of Oct. 20-22, Mini Maker Faire in Oakland, Sunday Oct. 22 only, and the next EBARC meeting, Oct 13th! In other news, we voted to donate \$350 to El Sobrante United Methodist Church for the use of their hall. The 4Cs and EBARC held our yearly BBQ at Miller Knox Park, which is always a fun time. Ken proposed a club field trip to Pt. Reyes, which is still in the early planning stages. Elections for Board positions are in December. Please consider helping to make a better club. No prior experience necessary! Talk to any of us. In the meantime, we are still looking for EBARC Secretary to fill in for Ron Antaki.

“Newbie” Elmering Afternoon Ken Fowler, KO6NO

I have been asked by a group of new hams in the Oakland and Hayward area to conduct a group meeting to assist them in getting on the air. They have scheduled a meeting for Saturday afternoon, Oct. 14th in Hayward and so far have seven signed up.

I would like to coach them on:

- How to operate simplex
- How to select and use a repeater
- How to program frequencies for repeaters and simplex into an HT
- How to improve their antennas
- How to use Amateur Radio for CERT

I thought an interesting demonstration and activity might be building a VHF/UHF antenna. Would you be interested in participating? I need help for several of the topics. Instruction would be informal and mostly hands-on if possible.

Money is available to pay for expenses. Lunch will be served.

Thanks in advance.

Ken, KO6NO
510-222-0830
510-815-0973

EBARC is at Makers Faire Martin Rothfield, W6MRR

EBARC will be at East Bay Makers Faire
October 22nd
<https://eastbay.makerfaire.com/maker/entry/376/>

We will be showing off some of our homemade radio gear and the magic of radio. If you have something you'd like to display please consider bringing it to the Faire. Last year we introduced a lot of people to ham radio.

The Makers Faire is a lot of fun with a variety of arts, crafts, DIY science and technology, creativity, craziness, and fun for people of all ages. The Park Day School in Oakland is a beautiful venue as well. Please consider stopping by if you can.

EBARC's Meetup Group Martin Rothfield, W6MRR

Be social. Please use Meetup and help us grow our club.

We are on a webpage called Meetup.com. It is intended for groups to advertise their organizations and events. We have had some Meetup visitors at least ask for more information. To find us, scroll down to the *Explore by category* section, then click *Tech*. We are the “East Bay Amateur Radio EBARC W6CUS” group.

Social media is like a garden - it needs to be tended or it dies off. Until now I have been posting our meetings and events on our Meetup.com page. Mostly we get zero to a single RSVP.

It would be helpful for EBARC members to participate on Meetup.com, mostly to give favorable reviews and discussion about the meetings - i.e. show signs of life.

Meetup.com doesn't cost anything to join, but you do need to set up an account with username and password. Once you're on Meetup.com, join our group. You will get emails, but there is a control panel for that. Mostly, please RSVP and give a review for the meeting.

If you have any questions, contact me at dcmk1mr2@gmail.com

Keep Your Batteries Charged!

General License Class Ken Fowler, KO6NO

Due to persistent errors by West Contra Costa Adult Education, the fall class to prepare applicants for the Amateur Radio General Class License (Sept 12 – Dec 12) has been cancelled. Sorry!

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

Future Bay Area Events

- Current Bay Area Public Service Events: See 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 16th St.), Oakland. The remaining test date for 2017 is Oct. 29th. The fee for 2017 is \$15. Info: 510-918-4627 or 510-741-8227.
- CoCoCo ACS Training: Details from mcmillan50y@yahoo.com, 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 ebarcw6cus@gmail.com, contact any EBARC officer, see Web page www.ebarc.org, or write EBARC, P.O. Box 1393, El Cerrito, CA 94530. You can also follow us on Twitter using @w6cus.

2017 East Bay Amateur Radio Club Executive Committee

Jay Sparks, KJ6HSH, President..... 384-4233
 Peter Hoffman, W6DEI, 1st VP - Program Chair / Webmaster..... 684-6543
 Ken Fowler, KO6NO, 2nd VP - Hospitality / Club Station Mgr..... 222-0830
 Sharon Primbsch, AA6XZ, 3rd VP - Membership / *Blown Fuse* Editor..... 741-8227
 Ron Antaki, KK6NDJ, Secretary..... 375-3756
 Randy Jenkins, KA6BQF, Treasurer / Finance Committee Chair..... 707-557-5521
 Robin Spalding, N6RLS, Member-at-Large..... 528-1144
 Jim Fast, KK6NDG, Member-at-Large 237-7145

2017 EBARC's Other Committee Heads and Contacts

Jack Burris, K6JEB, W6CUS Trustee..... 415-305-2547
 Club Station Manager, Stanton Gleason, KD6SWU..... 385-4044
 Field Day Chair, Ken Fowler, KO6NO 222-0830
 Silent Key Chair
 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, phone 510 223-3052. Frequencies: #1=145.110-, #2=147.570s. ACS details are at www.cocoacs.org

HAM RADIO OUTLET

14 STORE BUYING POWER!

ICOM



IC-7600 | All Mode Transceiver

- 100W HF/6m Transceiver, gen cov. receiver • Dual DSP 32 bit • Three roofing filters- 3, 6, 15kHz • 5.8 in WQVGA TFT display • Hi-res real time spectrum scope



IC-7200 | HF Transceiver

- 160-10M • 100W • Simple & tough with IF DSP • AGC Loop Management • Digital IF Filter • Digital Twin PBT • Digital Noise Reduction • Digital Noise Blanker • USB Port for PC Control



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 | 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 • FM Analog/DV Repeater List Function

ID-51A | VHF/UHF Dual Band Transceiver

- 5/2.5/1.0/0.5/0.1W Output • RX: 0.52-1.71, 88-174, 380-479 MHz** • AM/FM-FM-N/WFM/DV • 1304 Alphanumeric Memory Chls • Integrated GPS • D-STAR Repeater Directory • IPX7 Submersible



KENWOOD



TS-590SG | HF/50MHz Transceiver

- Equipped with 500 Hz/2.7 kHz roofing filter as standard • ALC derived from TS-990S eliminating spike issues • Antenna output function (shared with DRV connector) • CW - morse code decoder function



TM-D710G | 2M/440 Dualband

- V+V/V+U/U+U operation • Built-in GPS • Built-in TNC for APRS & DX-Cluster operation • 50W 2M & UHF • 1,000 memories • Dual receive • Green or amber backlight colors • Latest APRS firmware w/new features • Sky Command II remote functions



TM-V71A | 2M/440 Dualband

- High RF output (50W) • Multiple Scan • Dual receive on same band (VxV, UxU) • Echolink® memory (auto dialer) • Echolink® Sysop mode for node terminal ops • Invertible front panel • Choice of green/amber for LCD panel • 104 code digital code squelch



TM-281A | 2 Mtr Mobile

- 65 Watt • 200 Memories • CTCSS/DCS • Mil-Std specs • Hi-quality audio

TH-F6A | 2M/220/440

- Dual channel receive • .1 - 1300 MHz (cell blocked) RX • FM, AM, SSB • 5W 2M/220/440 TX, FM • 435 Memories • Li-Ion Battery



YAESU
The radio



FT-991 | HF/50MHz/2M/440 Transceiver

- 160 M-440MHz - SSB/CW/FM/C4FM Digital/AM/RTTY/PSK • 100 W (2M/440: 50 Watts) • 3.5" TFT full-color touch panel operation • High speed spectrum scope • Roofing filters: 3kHz & 15kHz • 32-bit high speed floating point IF DSP



FTDX1200 | 100W HF + 6M Transceiver

- Triple Conversion Receiver With 32-bit Floating Point DSP • 40 MHz 1st IF with selectable 3 kHz, 6kHz & 15 kHz Roofing Filters • Optional FFT-1 Supports AF-FFT Scope, RTTY/PSK31 Encode/Decode, CW Decode/Auto Zero-In • Full Color 4.3" TFT Display



FT-450D | A100W HF + 6M Transceiver

- 100W HF/6M • Auto tuner built-in • DSP built-in • 500 memories • DNR, IF Notch, IF Shift



FTM-400DR | 2M/440 Mobile

- Color display-green, blue, orange, purple, gray • GPS/APRS • Packet 1200/9600 bd ready • Spectrum scope • Bluetooth • MicroSD slot • 500 memory per band

FT-60R | 2M/440 5W HT

- Wide receiver coverage • AM air band receive • 1000 memory channels w/alpha labels • Huge LCD display • Rugged die-cast, water resistant case • NOAA severe weather alert with alert scan



5 Ways to Shop!

- RETAIL LOCATIONS – Store hours 10:00AM - 5:30PM - Closed Sunday
- PHONE – Toll-free phone hours 9:30AM - 5:30PM
- FAX – All store locations
- ONLINE – WWW.HAMRADIO.COM
- MAIL – All store locations

ANAHEIM, CA
(800) 854-6046

OAKLAND, CA
(877) 892-1745

SUNNYVALE, CA
(877) 892-1749

PORTLAND, OR
(800) 765-4267

PHOENIX, AZ
(800) 559-7388

WOODBIDGE, VA
(800) 444-4799

PLANO, TX
(877) 455-8750

BURBANK, CA
(877) 892-1748

SAN DIEGO, CA
(877) 520-9623

NEW CASTLE, DE
(800) 644-4476

DENVER, CO
(800) 444-9476

ATLANTA, GA
(800) 444-7927

SALEM, NH
(800) 444-0047

ONLINE STORE
WWW.HAMRADIO.COM

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