

THE EAST BAY AMATEUR RADIO CLUB, INC.

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# THE BLOWN FUSE

CLUB STATION W6CUS

VOLUME LXVI NUMBER 1

JANUARY 2018

## EBARC Meetings

January 12, 2018, 7:30 p.m.  
"Antenna Modeling  
Workshop, Part 2"

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.  
Post Office Box 1393  
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 Feb. issue: Tue., Jan. 23<sup>rd</sup>

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

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## January EBARC Meeting

### Peter Hoffman, W6DEI

Our January meeting will be a continuation of the October workshop on antenna modeling with 4nec2. Bring your laptops with the software installed. We'll pick up where we left off, covering topics like using variables (symbols) to enable the powerful 4nec2 Optimizer. More than just modeling an antenna, the Optimizer can actually help you design an antenna. What's the optimal spacing of elements in your Yagi to achieve the best F/B ratio, gain, closest match to 50 ohms? These are some of the things the 4nec2 Optimizer can help you determine. Time permitting, we'll also cover how 4nec2 can help you design a matching network to achieve low SWR. We'll use an example antenna to illustrate the aforementioned topics, but feel free to bring your own antenna models. We can help you work on those as well.

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

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## Your 2018 EBARC Officers

The 2018 Executive Committee officers elected and installed at the December meeting are:

- President, Jay Sparks, KJ6HSH
- 1st VP, Peter Hoffman, W6DEI
- 2nd VP, Ken Fowler, KO6NO
- 3rd VP, Sharon Primbsch, AA6XZ
- Secretary, Robin Spalding, N6RLS
- Treasurer, Randy Jenkins, KA6BQF

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## President's Message

### Jay Sparks, KJ6HSH

As another year winds down, I'm reminded of how fulfilling belonging to a club can be. The 4C's / EBARC Holiday party really helped me get into the Christmas spirit! While joining clubs is not something millennials are known for, I'm still hopeful we can grow membership (and participation), one demographic or the other. Elmering via talented members is an avenue to explore, as discussed in the November meeting. Through club activities such as Grizzly Peak Century and Boy Scout hikes, Presentations, Field Day, Maker Faire, classes, and VE exams, this year looks very promising. We'll also have a field trip or two!

I wish to thank those officers who continue to serve and support these activities. We also welcome Robin, N6RLS, as our new Secretary. Thanks also to all the wonderful members who make the club possible! From all of us, we hope you and your family have a very Happy New Year!

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## Your EBARC Badge?

Please "pick up and pay" for your EBARC badge at the January meeting. The cost is \$8 per badge (exact change is appreciated.) You may contact Sharon at [aa6xz@earthlink.net](mailto:aa6xz@earthlink.net).

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# **Treasurer's Report**

## **November 2017**

**Randy Jenkins, KA6BQF, Treasurer**

### NOVEMBER GENERAL FUND<sup>1</sup>

Beginning Balance ..... \$5,608.42

#### Income:

Refreshment Kitty ..... \$15.00

Total General Income: ..... \$15.00

#### Disbursements

Refreshments..... \$31.89

Total General Disbursements ..... \$31.89

Ending Balance..... \$5,591.53

(portion as petty cash ..... \$73.75)

<sup>1</sup>\$100 earmarked for youth scholarships.

### NOVEMBER STATION FUND

Beginning Balance: ..... \$1,585.69

Total Station Income ..... 0.00

Total Station Expenditures ..... 0.00

Ending Balance ..... \$1,585.69

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## **EBARC Mentoring Initiative**

**Peter Hoffman, W6DEI**

*[Article repeated from last month-Editor]*

A word that has come up repeatedly in recent club meetings is "mentoring" - or if you prefer the quaint ham vernacular, "elmering." I believe there are a lot of club members who are more than willing and very capable of mentoring on a variety of ham radio related topics, and all one has to do is ask to get their help. But to make things a little more formal, we'd like to post a list of mentors on our website. It should also make it easier for anyone who wants some help to be able to find it.

The first step is to compile a list of mentors. So please let me know if you're willing to put your name on the list and what

areas of interest you can cover. Some suggested areas of interest (by no means exhaustive): digital modes, antennas, software-defined radios, VHF/UHF repeater-related radios, CW skills, kit building, QRP, DXing, etc. After we've compiled a list, I will put it on the "Contacts" page of our website. Initially, only names will be listed and members can look up email addresses and phone numbers on our roster sheet (which is private and not posted online, but which all members have). If we wanted to open up the mentoring program to non-members, we could later add email addresses to the online list.

So please let me know if you want to be a mentor. I sincerely doubt that it will require a lot of time and effort, but you can make a big difference in someone's enjoyment of, and competence in, the hobby of ham radio. So please consider joining the mentor list.

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## **2018 EBARC Dues are Due!**

If you haven't renewed for 2018, please do so ASAP. We enclosed a renewal form, and even a SASE with the election materials!

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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 test dates for 2018 are Jan. 28<sup>th</sup>, Apr. 22<sup>nd</sup>, 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 [ebarcw6cus@gmail.com](mailto:ebarcw6cus@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.

## 2018 East Bay Amateur Radio Club Executive Committee

|   |              |
|---|--------------|
| Jay Sparks, KJ6HSH, President.....  | 384-4233     |
| Peter Hoffman, W6DEI, 1 <sup>st</sup> VP - Program Chair / Webmaster.....               | 684-6543     |
| Ken Fowler, KO6NO, 2 <sup>nd</sup> VP - Hospitality / Club Station Mgr.....             | 222-0830     |
| Sharon Primbsch, AA6XZ, 3 <sup>rd</sup> VP - Membership / <i>Blown Fuse</i> Editor..... | 741-8227     |
| Robin Spalding, N6RLS, Secretary .....  | 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

|  |              |
|--|--------------|
| 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](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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- 100W on HF/50/144MHz, 75W on 430 (440) MHz, 10W on 1200MHz\*\*
- Double superheterodyne with image rejection mixer



## 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 Blanking • USB Port for PC Control



## IC-PW1 | HF/50 MHz Amplifier

- Wide freq. coverage - 1 kW from 1.8 MHz to 50 MHz (amateur bands only) • 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



## IC-2730A | VHF/UHF Dual Band Transceiver

- VHF/VHF, UHF/UHF simultaneous receive • 50 watts of output on VHF and UHF • Optional VS-3 Bluetooth® headset • Easy-to-See large white backlight LCD • Controller attachment to the main Unit

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