

THE EAST BAY AMATEUR RADIO CLUB, INC.

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# THE BLOWN FUSE

CLUB STATION W6CUS

VOLUME LXVII NUMBER 2

FEBRUARY 2019

## EBARC Meetings

February 8, 7:30 p.m.  
"Securing your Shack Computer"  
Bryce Lynch



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 Ken Fowler, at [ko6no@comcast.net](mailto:ko6no@comcast.net).

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THE EAST BAY AMATEUR RADIO CLUB, INC.  
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*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 Mar. issue: Tues., Feb. 26<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](mailto: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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## February 8<sup>th</sup> EBARC Meeting Martin Rothfield, W6MRR

Do you have a computer in your shack storing your valuable logs and carefully configured software? The internet can be a dangerous place. Computer security is the protection of computer systems and the data stored on them. At our February meeting, Bryce Lynch will be our speaker. He is a Computer Security Expert with Salesforce. His presentation will introduce us to good computer security practices and how to incorporate them into your everyday routine.

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

## General Meeting Minutes Robin Spalding, N6RLS, Secretary

**Opening:** The Friday, 11 January 2019 general EBARC meeting in the El Sobrante United Methodist Church meeting room started about 7:30 p.m. There was the usual round of introductions, with an optional question; "What are your ham plans for the new year?" After the program, the meeting continued. The minutes of the last meeting (as published in *The Blown Fuse*) were approved by the membership. Most of the rest of the meeting happened after the program.

**Program:** Martin Rothfield, W6MRR, invited folks to vote up or down on the several possible program options and subjects from a long list he passed around.

He then went into his presentation on SDR-RTL radios and how software-defined radio differs from conventional hardware-defined radio. He gave a brief history of how SDR devices came on the scene and how many were adapted from their original TV reception function to radio reception use. Today there are many software programs for both receiving and transmitting, available for almost every operating system. He also demonstrated how you can receive and analyze signals sent out by your car's remote door opener, and signals sent from aircraft transponders. Universal Radio Hacker can be used to examine unknown digital signals – more info and downloads from <https://github.com/jopohl/urh>

**Hospitality:** Craig Hauger, K16EMD, invited folks to check out the offerings, including home-made brownies & fruit salad. Suggestions for future offerings are welcome... and Feed the Kitty!

**Membership:** Sharon Primbsch, AA6XZ, reminded us that submissions for *The Blown Fuse* are always welcome. She also noted the situation with the FCC during the government shutdown. FRN numbers can still be obtained,

but processing of test results is on hold until the shutdown ends. The next quarterly test session is on 27 January. There is a mega-session at UC Berkeley on 22 February.

**Finance:** Maria Hauger, KI6ENT, announced balances:

General Fund – Starting: \$5776.82 / Ending: \$7048.05 (includes membership income)

Station Fund – Starting: \$1585.69 / Ending: \$1848.69 (includes swap sales income)

**Public Events/Education:** No public events scheduled. Ken said his new General license course will start Friday, 18 January, “here at the church” and will have 11 sessions, skipping Fridays that clash with EBARC meetings. Topics will focus on subjects unique to the General Class test.

Peter Hoffman, W6DEI, offered to have students come by for a ham radio demonstrations at his shack.

**Announcements:** Ken Fowler, KO6NO, announced Todd Teachout, KM6HFU, as a new At-Large board member. Ken also mentioned possibly selling of some of the recently-inventoried club gear, especially a Drake L4B linear & power supply. Make an offer.

Martin said the EBARC website is now on HTML-5 CSS, and should work well on phones, tablets and home computers. He also asked for help with grant writing to get income to help promote the site.

DJ, KJ6DJ, (CCCC president) talked about using FIDigi to send FEMA and other forms – he operates a net to help people with this, and invited folks to the CCCC meetings at Denny’s

on San Pablo at 7:15 a.m. on 2<sup>nd</sup> Sundays.  
More: <http://www.wa6kqb.org/meetings.html>

**Attendance:** One guest, Laura (working on getting her license). There were 25 member signers to the meeting roster, including Wayne Coburn, KK6ZPL, who joined EBARC at this meeting.

**Closing:** There being no further business, the membership meeting was adjourned at about 9 p.m.

**Next Meeting:** The next meeting will be at 7:30 p.m. on Friday, 8 February, 2019.

**Presentation:** February: Bryce Lynch - Computer Security Expert with Salesforce: will talk about “Securing your Shack Computer.”

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***Renew for 2019 before the Feb 26<sup>th</sup> deadline, so you’ll be listed in the roster (to be published in March)!***

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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 2019 are Apr 28, Jul 28, and Oct 27. The fee for 2019 is still \$15. Info: 510-918-4627 or 510-741-8227.
- CoCoCo ACS Training: Details from Kathy Branstetter, KI6TZE, [kathbran@well.com](mailto:kathbran@well.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."

## 2019 East Bay Amateur Radio Club Executive Committee

Ken Fowler, KO6NO, President .....	222-0830
Martin Rothfield, W6MRR, 1 <sup>st</sup> VP - Program Chair.....	705-1199
Craig Hauger, KI6EMD, 2 <sup>nd</sup> VP - Hospitality.....	672-8382
Sharon Primbsch, AA6XZ, 3 <sup>rd</sup> VP - Membership / <i>Blown Fuse</i> Editor.....	741-8227
Robin Spalding, N6RLS, Secretary / Twitter .....	528-1144
Maria Hauger, KI6ENT, Treasurer / Finance Committee Chair .....	672-8382
Mathison Ott, KJ6DZB, Member-at-Large .....	701-0234
Todd Teachout, KM6HFU, Member-at-Large.....	799-6051

## 2019 (possibly!) 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.....	
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

ACS West CoCoCo: Kathy Branstetter, KI6TZE, [kathbran@well.com](mailto:kathbran@well.com).  
Frequencies: #1=145.110-, #2=147.570s. ACS details are at [www.cocoacs.org](http://www.cocoacs.org)

# HAM RADIO OUTLET

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- HF/50MHz 144/43VVO (440) MHz and 1200MHz\*1 coverage
- 100W on HF/50/144MHz, 75W on 430 (440) MHz, 10W on 1200MHz\*1
- 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

## ID-51A PLUS2

### VHF/UHF D-STAR Portable

- RS-MS1A, free download Android™ application
- New modes for extended D-STAR coverage • Terminal Mode & Access Point Mode allow D-STAR operation through Internet • DV & FM repeater search function • Dplus reflector link commands



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