

THE EAST BAY AMATEUR RADIO CLUB, INC.

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THE BLOWN FUSE

CLUB STATION W6CUS

VOLUME LXIV NUMBER 1

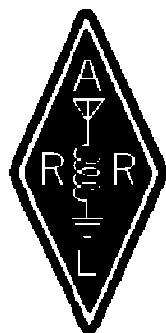
JANUARY 2016

EBARC Meetings

January 8, 2016, 7:30 p.m.

"Interstellar Radio"

David Messerschmitt, KK6KFQ



The East Bay Amateur Radio Club meets this month at the
El Sobrante Library, 4191 Appian 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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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: Tues., Jan. 26th

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

January 8th EBARC Meeting **Peter Hoffman, W6DEI**

**We'll meet in the community meeting room
at the El Sobrante Library, 4191 Appian
Way. Enter through the back door.**

The January meeting speaker is David Messerschmitt, KK6KFQ, Emeritus Professor, UC Berkeley. His topic is "Radio Communication at Interstellar Distances." He describes the subject thus: "Based on recent progress in locating exoplanets outside our solar system, it is estimated that about 20% of those stars similar to our sun harbor planets in the habitable zone, meaning they could conceivably harbor Earth-like life. That adds up to an estimated 20 billion such planets in the Milky Way galaxy, and it is possible that a small fraction of those (but still an impressive number) harbor intelligent civilizations possessing advanced radio technology. It is appropriate to begin pondering how we might communicate information by radio with any extraterrestrial civilizations that might exist out there, and also with spacecraft (called starships) that we might launch toward nearby stars. In this talk we discuss the major technical obstacles to such radio

communication, such as great distances, the cosmic microwave background, an ionized interstellar medium, and (for starships) relativistic speeds. We will also predict the character of digital modes appropriate for interstellar communication. Come and pay attention, because this topic may appear in future ham licensing exams!"

EBARC Election Results

At the December General meeting Dec. 11th, the following officers were re-elected:

- Jay Sparks, KJ6HSH, President
- Peter Hoffman, W6DEI, 1st VP
- Stanton Gleason, KD6SWU, 2nd VP
- Sharon Primbsch, AA6XZ, 3rd VP
- Ron Antaki, KK6NDJ, Secretary
- Randy Jenkins, KA6BQF, Treasurer

The mailed-in ballots were counted by Morrie Oberg, KK6THM; Alvin Todd, KK6UQX; and Mathison Ott, KJ6DZB. We thank them!

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

I wish to thank all the Board members who help keep the ship afloat, especially Stanton, who continues to provide wonderful refreshments and holiday-appropriate displays!

I look forward to another year of fun, including speakers, volunteering at regional events, and Field Day. One anticipated event is the HENRI-1 balloon launch, tentatively set for Monday, March 14th, 2016. For more details see:

<https://trello.com/b/HkR9LkGP/ebarc-henry-1>

Ken mentioned finding space to store the club equipment. If anyone has suggestions for this and other topics, please let us know!

I wish everyone a very Merry Christmas and Happy New Year!

Treasurer's Report

November 2015

Randy Jenkins, KA6BQF, Treasurer

NOVEMBER GENERAL FUND¹

Beginning Balance\$5,610.14

Income:

Member Renewal: N6JGC, KK6JAC, W6DEI,
K5EJL, AA6XZ, WS6V, KF6HEX, KI6KOZ,
W6QNT, KE6RS, N6SPY, K6MCM,
WA6UDS, and KG6WEQ\$420.00

Family Renewal: KC6OBK/K6KOP, KD6OKJ/
N6MNL, KF6MVH/W6BBQ 105.00

Donation.....5.00

Refreshment Kitty22.11

Total General Income:\$552.11

Disbursements

Ending Balance.....\$6,162.25
(portion as petty cash\$50.00)

¹\$100 earmarked for youth scholarships.

NOVEMBER STATION FUND

Beginning Balance:.....\$2,272.50

Disbursements:

Storage Costs\$80.00

Ending Balance.....\$2,192.50

Notes from the Treasurer:

The General Fund balance includes the \$226 Balloon Project money donated in June by EBARC members (to be augmented by \$150 from the General Fund).

TECHNICIAN LICENSE CLASS

Ken Fowler, KO6NO

The West Contra Costa Adult Education schedule hasn't been printed as of press time. However, I have requested that this class be scheduled for Tuesday evenings, 6:30 to 8:30. It would start on Jan. 5 and run through March 29 at the Alvarado Adult School in Richmond. There's a \$15 fee to the adult school, and a

nominal cost for the Technician book (available at the class). Register in advance with West County Adult Education at 510-231-1453 or online at

<https://register.asapconnected.com/default.aspx?org=4217> For further information contact me; ko6no@comcast.net, or 510-222-0830.

This class is intended to prepare students for passing the Federal Communications Commission Examination for Technician Class Amateur Radio Station and Operator License. The final session of the class will be an examination session conducted by Volunteer Examiners for their fee of \$15. Tell your friends and family!

Need help with programming and using your HT? Here is the person in San Francisco who runs practice sessions for new hams: Peter McElmury, AA6SF. Details are at 2metercriticalmass.com

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

If you haven't renewed your EBARC membership for 2016, this is your last issue of *The 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 test dates for 2016 are; Jan. 24th, Apr. 24th, Jul. 24th, and Oct. 23rd. The fee for 2016 is \$15. Info: 510-918-4627 or 510-741-8227.
- CoCoCo RACES Training: Details from mcmillan50y@yahoo.com 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, 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.

2016 East Bay Amateur Radio Club Executive Committee

Jay Sparks, KJ6HSH, President.....	384-4233
Peter Hoffman, W6DEI, 1 st VP - Program Chair / Webmaster.....	525-0694
Stanton Gleason, KD6SWU, 2 nd VP - Hospitality / Club Station Mgr.....	385-4044
Sharon Primbsch, AA6XZ, 3 rd VP - Membership / <i>Blown Fuse</i> Editor.....	741-8227
Ron Antaki, KK6NDJ, Secretary.....	375-3756
Randy Jenkins, KA6BQF, Treasurer / Finance Committee Chair.....	526-4089
Robin Spalding, N6RLS, Member-at-Large	528-1144
Member-at-Large	

2016 EBARC's Other Committee Heads and Contacts

Jack Burris, K6JEB, W6CUS Trustee.....	415-305-2547
Field Day Chair, KO6NO, Ken Fowler	222-0830
Silent Key Chair	
Awards 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 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, West CoCoCo: Mike McMillan, K6MCM, mcmillan50y@yahoo.com, phone 510 223-3052.
Frequencies: #1=145.110-, #2=147.570s.

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/4440: 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

Contact HRO for promotion details. Toll-free including Hawaii, Alaska and Canada. Call will be routed to the nearest store. All HRO 800-lines can assist you. If the first line you call is busy, you may call another. AZ, CA, CO, GA, VA residents add sales tax. Prices, specifications and descriptions subject to change without notice.