



Contra Costa Communications Club, Inc  
An ARRL Affiliated Repeater Group  
Dedicated to Service



**General Meeting Minutes October 8, 2006**

The meeting was called to order by our President Ed KA6OFR.

Introductions were made around the room. The previous months' minutes were approved as printed in The Communicator.

We recently received 3 donations of \$50.00 from Barbara Ruck, Joseph (Smitty) Schmidt, KC6QZP, and Larry Doyle W6CTQ. We thank you all very much!!!

Treasurer: Checking: \$1325.83: Savings: \$1749.91: CD: \$3589.11.

Trustee: Repairs are being made at the repeater site.

Net Controllers: We need more people to check in. We enjoy hearing from everyone so remember to check in on the Over The Hill Morning Net.

220 Net: The net is going well also. The average check ins are 10-12. This net is held on Tuesday evenings @ 7:30 p.m.

New Business: Natalie Mealer, WA6QVM, has resigned as Director. We thank you Natalie for all your help and support. You will be missed!!

Jan Kuhl, AC5RB, made a quilt for us to raffle. The quilt is beautiful!!!! Thank you again Jan for your hard work. The quilt was raffled at the meeting. The club raised \$129.00 for the raffle of the quilt to help with repairs at the repeater site. Thank you all very much for helping.

The lucky winner was: Stan Clark KB6SEI

Free Breakfast: Muriel Strong, wife of Bert W6PSH

World Radio: Bill Cross WA6FNP

Progressive Raffle: Roger Nelums KE6SZG who was NOT at the meeting!!!!!!!!!!!! Next month the raffle will be \$70.00.

Submitted by: Burgie Jones KE6MSF

**PIZZA NIGHT COME ONE----COME ALL  
AND BRING THE FAMILY**

**Contra Costa Communications Club is hosting a pizza night at  
Mountain Mike's Pizza on Wednesday November 8th @ 6 p.m.**

**The address is 3340 San Pablo Dam Road San Pablo  
(Inside the Raley's Shopping Center).**

**It's an all-you-can-eat night**

**---Adults \$5.75---Kids under the age of 10 is \$3.50**

**We hope to see you there!!**

**SUNSHINE  
OPPORTUNITIES**

Ed, KA6OFR

*Hello Everyone!!!!*

*I hope you are all doing well.*

*As of this printing, Ed has had surgery and is doing well. He will continue his stay in the hospital for about 7 days.*

*If you know of someone who we can add to the Sunshine Committee, please let me know. You can email me @*

*[burgie0001@yahoo.com](mailto:burgie0001@yahoo.com)*

*Thank you and good health to all!!!!  
Burgie KE6MSF*

**The Quillow**

Graciously Donated by Jan AC5RB



Contra Costa Communications Club, Inc publishes the Communicator monthly for the benefit of club members. No Personal information to be reprinted without permission.

Editor – Victoria, KE6FSU 510-724-4966 or KE6FSU@sbcglobal.net

**Deadline for DEC. 2006 issue:**

**Nov. 27**

2006 CONTRA COSTA COMMUNICATIONS CLUB, INC.

DAILY AND WEEKLY NETS

DAYS	NET CONTROLLER	REPEATER/NET NAME/TIME
MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY	DAN – KF6HQO (Backup CHET – WA6PAC) BURGIE-KE6MSF, JAN-N6UYE [ROTATE] BOB-W6WTJ GARY – KG6RJA BOB – AB4AL ALTERNATE STAN-KB6SEI	145.110 OVER-THE-HILL 7:10 AM
WEEKLY - TUESDAY	ED-KA6OFR ALTERNATE ROBBY - N6MNL	224.300 QRM NET 7:30 PM
WEEKLY – WEDNESDAY		
WEEKLY - THURSDAY	ROTATE	145.110 WEST CONTRA COSTA CTY ARES/RACES 6:45 PM
WEEKLY - THURSDAY	ROTATE THURSDAY NIGHTS IN ORDER ROBBY-N6MNL, ANDREW-KM6VT, ALTERNATE: FRED-KC6VLL, BARBARA-KD6OKJ BOB – AB4AL, DAN – KF6HQO	145.110 CLUB NET 7:30 PM
WEEKLY - THURSDAY	BOB – AB4AL	145.110 TECHNICAL NET 8:00 PM
WEEKLY – SATURDAY & SUNDAY	JOE LEE, W6DOB	145.110 ARRL TRAFFIC NET 7:30 PM

*Club Officers FOR 2006*

President: Ed Caine, KA6OFR (2007) 707-996-0962  
 V. Pres: Don Hamma, KE6ZFP (2006) 510-526-6823  
 Secretary: Burgie Jones KE6MSF (2006) 510-964-1476  
 Treasurer: V. Thompson, KE6FSU (2008) 510-724-4966  
 Trustee: Robby Robinson, N6MNL (2014) 510-222-4990  
 Director: Jack Burris, K6JEB (2008) 415-305-2547  
 Director: Ken Miller, KA6TUX (2007) 510-758-8681

*Emergency Coordinator ARES/RACES West County -*  
 Stephen Adams-KF6WNH 510-236-9770

*Repeater Controller's*  
 [Call & Report any Problems/Concerns]  
 Robby.....N6MNL.....510-222-4990  
 Ed.....KA6OFR.....707-996-0962  
 Red.....N6UMG.....510-223-6269  
 Ken.....KA6TUX.....510-758-8681  
 Gabe.....WA6KQB.....510-222-1523  
 Howard...KE6PTT.....925-798-7208  
 Bob..... AB4AL..... 707-552-1403

Committee Chairperson

Membership:  
 Barbara Grazer, KD6OKJ 510-222-4990  
 Technical:  
 Robert Gregory, AB4AL 707-552-1403  
 Assist. Technical:  
 Howard Burk, KE6PTT 925-798-7208  
 Packet:  
 Robby Robinson, N6MNL 510-222-4990  
 NARCC:  
 Robby Robinson, N6MNL 510-222-4990  
 Picnic:  
 Fred Neiman, KC6VLL 510-223-1748  
 Christmas:  
 Barbara Grazer, KD6OKJ 510-222-4990

## **TRUSTEE-NOVEMBER**

KF6ZFP, Don, and I went on the hill last week and finished repairing the damage done by vandals. Don did the majority of the work. Many thanks Don.

Today, Saturday Nov. 28, Paul, F6FMX, and Paul Mason, WA6EUZ, and yours truly again went on the hill to see what is the problem with our repeaters, mainly 444.275 and 145.110. The 440 system was very low on output so it is off air until repairs are made. WA6EZU is going to give me a detail report on his findings and recommendations for our system. I will hopefully give this at the next club meeting. Our Technical Chairperson Bob, AB4AL was in contact by phone and radio during the testing and consulting with Paul Mason. We are very fortunate to get the assistance of Paul with his service monitor and other test equipment. We have a good tower climber KF6FMX. He made the tests on the antennas possible. Many thanks to both Paul.

Robby Robinson N6MNL

Due to an oversight by the editor these articles were not included in the October Newsletter, my apologies to those who should have been recognized in last months edition. - Victoria

### **Donation Received**

Barbara Ruck from San Francisco so kindly sent in \$50. Her note stated "Here is a bit to help the CCCC with their funds".

I sent her a thank you card and a form for our Christmas Party. She and her daughter come each year, so hopefully we will be blessed with their company this year.

Joseph Schmidt (Smitty) KC6QZP from El Sobrante so kindly gave \$50. At the picnic he stated he wanted to help the club. Thanks Smitty for your kindness.

Bye you now.

Barbara Grazer-Robinson KD6OKJ

Membership Chair

### **Membership Report for October 2006**

Time for membership renewal is here!! Please feel free to write one check for your dues and holiday party reservation. I want to thank each of you for your support of this great club. Look forward to seeing you and your guest at the party. New location make sure to see the form included in this months newsletter.

Fred KC6VLL and Audrey KF6MVH (and grandson) were once again Fantastic-Marvelous-Stupendous and Exemplary in providing us with our annual picnic. Thanks to everyone, as each of you made the day every better. The cookie lady this year was Nada KA6RPG and we owe a big thanks to her son Stan for bring her.

Thanks again.

Barbara Grazer-Robinson KD6OKJ Membership Chair

## **Board of Directors Meeting 10-8-06**

The meeting was called to order @ 8:30 a.m. by President Ed KA6OFR.

Those in attendance were: Robby N6MNL, Victoria KE6FSU, Ed KA6OFR, Don KE6ZFP, Burgie KE6MSF

Robby has been trying to enlist help to go up to the repeater site. Don Hamma has agreed to help Robby within the next few weeks to complete the repairs at the repeater site.

Submitted by: Burgie Jones KE6MSF

## **NEW CLUB WEB SITE ADDRESS**

<http://contracostacommunicationsclub.org>

### **Tech Net Check-ins 10/19/2006**

Tonight we had 8 check-ins plus myself for Tech Net the 70cm repeater. I was filling in for Bob, AB4AL at the request of Robbie, N6MNL. Topics discussed were amateur radio satellite tracking software, and the D-STAR system.

Check-Ins: ke6rs, k6cxv, w6psh, ka6ofr, n6mnl, kg6qdm, wa6fnp, n6adr

It was a pleasure to serve, but no one can do Tech Net like Bob, AB4AL.

72, 73, 88 Jack, K6JEB

# ARRL Newsletter Excerpts

Vol. 25, No. 40 October 6, 2006

## NEW LAW FORMALLY MAKES AMATEUR RADIO PART OF EMERGENCY

### COMMUNICATIONS COMMUNITY

A section of the Department of Homeland Security (DHS) 2007 Appropriations Act, HR 5441 formally includes Amateur Radio operators as a part of the emergency communications community. Congress approved the measure before adjourning for its pre-election break. President George W. Bush signed the bill into law October 4.

Amateur Radio is included within the legislation's Subtitle D, Section 671, known as the "21st Century Emergency Communications Act." Radio amateurs are among the entities with which a Regional Emergency Communications Coordination Working Group (RECC Working Group) must coordinate its activities. Included within the DHS's Office of Emergency Communications --which the measure also creates -- RECC Working Groups attached to each regional DHS office will advise federal and state homeland security officials. The final version of the legislation incorporated language from both House and Senate bills and was hammered out in a conference committee. An earlier version of the 21st Century Emergency Communications Act, HR 5852, included Amateur Radio operators as members of the RECC Working Groups.

In addition to Amateur Radio operators, RECC Working Groups also will coordinate with communications equipment manufacturers and vendors -- including broadband data service providers, local exchange carriers, local broadcast media, wireless carriers, satellite communications services, cable operators, hospitals, public utility services, emergency evacuation transit services, ambulance services, and representatives from other private sector entities and nongovernmental organizations.

The RECC Working Groups will assess the survivability, sustainability and interoperability of local emergency communication systems to meet the goals of the National Emergency Communications Report. That report would recommend how the US could "accelerate the deployment of interoperable emergency commu-

nications nationwide." They also will coordinate the establishment of "effective multi-jurisdictional, multi-agency emergency communications networks" that could be brought into play in an emergency or disaster.

In light of the new legislation, the ARRL plans to follow up to determine how it can interact with the DHS and its Office of Emergency Communications.

Vol. 25, No. 41 October 13, 2006

## FCC RELEASES LONG-AWAITED "OMNIBUS" AMATEUR RADIO REPORT AND ORDER

Ending a protracted waiting period, the FCC's Report and Order (R&O) in the so-called "omnibus" Amateur Radio proceeding, WT Docket 04-140, was adopted October 4 and released October 10. In it, the FCC adopted nearly all of the changes it had put forth in its 2004 Notice of Proposed Rulemaking (NPRM) in the proceeding. The R&O the FCC released this week does NOT include action on the Commission's proposal to eliminate the Morse code requirement. A Report and Order in that proceeding, WT Docket 05-235, is pending. ARRL President Joel Harrison, W5ZN, expressed the League's gratitude to the FCC for acting this week in the wide-ranging proceeding.

The new rules are expected to become effective later this year. Among the highlights in the October 10 Report and Order, the FCC:

- \* "reformed" the current Novice/Tech Plus bands to expand certain phone subbands;
- \* agreed to allow Novice and Tech Plus licensees to operate CW in the General class CW subbands on 80, 40, 15 and 10 meters.
- \* implemented rules to discourage multiple vanity call sign filings on the same day from the same applicant;
- \* permitted auxiliary stations to transmit on portions of the 2 meter band;
- \* permitted amateur licensees to designate a specific Amateur Radio club to receive their call sign in memoriam;
- \* eliminated certain restrictions governing the manufacture, marketing and sale of external RF power amplifiers intended for Amateur Radio use;

\* clarified that "amateur stations may, at all times and on all frequencies authorized to the control operator, make transmissions necessary to meet essential communication needs and to facilitate relief actions";

\* deleted the requirement to publicly announce Amateur Radio examination locations and times, and

\* deleted the frequency bands and segments specified for Radio Amateur Civil Emergency Service (RACES) stations.

The various rule changes become effective 30 days after their publication in the Federal Register. A copy of the R&O appears on the FCC Web site [http://hraunfoss.fcc.gov/edocs\\_public/attachmatch/FCC-06-149A1.pdf](http://hraunfoss.fcc.gov/edocs_public/attachmatch/FCC-06-149A1.pdf)

ARRL has posted a list of Frequently Asked Questions (FAQs) regarding the R&O <http://www.arrl.org/announce/regulatory/wt04-140/faq.html>

A downloadable chart shows the band changes [http://www.arrl.org/announce/regulatory/wt04-140/Hambands3\\_color.pdf](http://www.arrl.org/announce/regulatory/wt04-140/Hambands3_color.pdf)

Vol. 25, No. 42 October 20, 2006

## HAWAIIAN HAMS RESPOND AS EARTHQUAKES STRIKE "BIG ISLAND"

Amateur Radio volunteers scrambled to provide emergency communication and assist with relief efforts after earthquakes October 15 on the "Big Island" of Hawaii. The initial jolt of the so-called "Kona Earthquake" just after 7 AM local time roused many residents from sleep; another followed soon after. Widespread power outages as well as structural and highway damage resulted throughout the Hawaiian Islands, although a feared tsunami never developed and no deaths were reported. ( This a long detailed article you can read it in full at ARRL.org, VLT)

Full text of the ARRL weekly  
Newsletter is available at  
ARRL.org

1 2 STORE BUYING POWER



# HAM RADIO OUTLET

WORLDWIDE DISTRIBUTION

**ANAHEIM, CA**  
(Near Disneyland)  
933 N. Euclid St., 92801  
(714) 553-7373  
**(800) 854-6046**  
Janet, K17MF, Mgr.  
anaheim@hamradio.com

**BURBANK, CA**  
2416 W. Victory Bl., 91506  
(818) 842-1788  
**(800) 854-6046**  
Eric, KA6HT, Mgr.  
Victory Blvd. at Buena Vista  
1 mi. west I-5  
burbank@hamradio.com

**OAKLAND, CA**  
2210 Livingston St., 94606  
(510) 534-5757  
**(800) 854-6046**  
Mark, W17YN, Mgr.  
I-880 at 23rd Ave. ramp  
oakland@hamradio.com

**SAN DIEGO, CA**  
5375 Kearny Villa Rd., 92123  
(619) 550-4900  
**(800) 854-6046**  
Tom, KM6K, Mgr.  
Hwy. 163 & Claremont Mesa  
sandiego@hamradio.com

**SUNNYVALE, CA**  
510 Lawrence Exp. #102, 94085  
(408) 736-9496  
**(800) 854-6046**  
Rick N6DQ, Co-Mgr.  
Howard, W6HOC, Co-Mgr.  
So. from Hwy. 101  
sunnyvale@hamradio.com

**NEW CASTLE, DE**  
(Near Philadelphia)  
1509 N. Dupont Hwy., 19720  
(302) 322-7092  
**(800) 644-4476**  
Rick, K3TL, Mgr.  
RT.13 1/4 mi. So. I-295  
newcastle@hamradio.com

**PORTLAND, OR**  
11735 S.W. Pacific Hwy.  
97223  
(503) 596-0555  
**(800) 854-6046**  
Leon, W7AD, Mgr.  
Tigard-99W exit  
from Hwy. 5 & 217  
portland@hamradio.com

**DENVER, CO**  
3400 E. Iliff Ave. #9, 80231  
(303) 749-7373  
**(800) 444-9476**  
Joe, KD8GA, Co-Mgr.  
John, N5EHP, Co-Mgr.  
denver@hamradio.com

**PHOENIX, AZ**  
1939 W. Dunlap Ave., 85021  
(602) 242-3515  
**(800) 444-9476**  
Gary, N7GJ, Mgr.  
1 mi. east of I-17  
phoenix@hamradio.com

**ATLANTA, GA**  
6071 Buford Hwy., 30340  
(770) 263-0700  
**(800) 444-7927**  
Mark, KJ4VQ, Mgr.  
Doraville, 1 mi. no. of I-285  
atlanta@hamradio.com

**WOODBRIE, VA**  
(Near Washington D.C.)  
14803 Blvd America Dr, 22191  
(703) 643-1063  
**(800) 444-4799**  
Steve, N4SR, Mgr.  
Exit 161, I-95, So. to US 1  
woodbridge@hamradio.com

**SALEM, NH**  
(Near Boston)  
224 N. Broadway, 03079  
(603) 898-3750  
**(800) 444-0047**  
Chuck, N1UC, Mgr.  
saalem@hamradio.com  
Exit 1, I-93  
28 mi. N. of Boston  
saalem@hamradio.com

## KENWOOD



### TS-2000 HF/VHF/UHF TCVR

- 100W HF, 6M, 2M • 50W 700M
- 10W 1.2 GHz w/optional UT-20 module
- IF Stage DSP • Built-in TNC, DX packet cluster
- Backlit Front Key Panel

Low Intro Price!



### TH-D7A(G) 2M/440

- 2M/440 Dual Band
- Built-in 1200/9600 Baud TNC
- APRS Compatible
- DX Packet Cluster Monitor
- 200 Memos, CTCSS
- VOX-H1 Messaging Control

Low Pricing!



### TM-D700A 2M/440 Dualband

- 50w VHF 35w UHF • Opt. Voice Synthesizer
- Receives 118-1300 mhz (cell blocked)
- Remote Head Inst. only (kit included)
- 200 Memories • Built In 1200/9600 baud TNC
- Advanced APRS Features
- Dx Packet Cluster
- Tone Scan • GPS/VOX/H1/PC Ports

COAST TO COAST  
FREE SHIPPING  
UPS • Most Items Over \$100



Rapid Deliveries From  
The Store Nearest To You!

## YAESU

### VX-7R

- 80/2M/220/440 HT
- Wideband RX
- 900 Memories
- 5W TX (300mw 220MHz)
- Li-Ion Battery
- Fully Submersible to 3 ft.
- Built-in CTCSS/DCS
- Internet WJRES compatible

Great Price!



### FT-857D

- Ultra compact HF, VHF, UHF
- 100w HF/6M, 50w 2M, 20w UHF
- DSP included • 32 color display
- 200 memos • Detachable front panel

(FT-857 required)

Call for Low Price!



### FT-100MP MKV HF Trans.

- Enhanced Digital Signal Processing
- Dual RX
- Collins SSB filter built-in
- 200W, External power supply

Low Pricing!

## ICOM



### IC-706MKII HF/VHF Transceiver

- All mode HF/6M/2M/700M
- 100W HF/6M, 50W/2M, 20W/440 Mhz
- AF-DSP • Plug and Play Filters - No Soldering
- Easy-to-Navigate menus

Low Pricing!



### IC-756 PRO III All mode Transceiver

- 160-6M @ 100W • Enhanced Rx performance
- 32 bit IF DSP • SSB/CW Synchronous tuning
- Enhanced 6 inch color TFT w/spectrum scope
- Selectable IF filter shapes for SSB & CW
- Multiple DSP controlled AGC loops
- Advanced CW functions
- 101 alphanumeric memories

The Ultimate Radio!

## ALINCO



### DJ-196T 2M/HT

- 5 Watt out
- 40 memories
- Alphanumeric display
- CTCSS + DCS built in
- "S" meter
- Auto Dialer

Low Pricing!



### DR-135TP 2M mobile

- 50 Watt out • Alpha numeric display
- 100 memos • Built-in TNC 1200 & 9600 Baud
- Front Panel GPS in • Rear DB-9 port
- CTCSS/DCS Encode/Decode built in

Low Pricing!



*THE COMMUNICATOR*  
*NOVEMBER 2006*

Contra  
Costa  
Communications  
Club Inc.

Repeater ID: WD6EZC 145.110, 224.300, 444.275 PL 82.5  
Simplex 146.505  
Packet "Node" CC4CC 145.05 Packet "Mail Box" WD6EZC -1  
Home Page: <http://contracostacommunicationsclub.org>  
Club Address: CCCC, Inc. P.O. Box 20661,  
El Sobrante, CA 94820-0661

A NON-PROFIT CLUB DEDICATED TO SERVICE

Contra Costa communications Club, Inc.  
P.O. Box 20661  
El Sobrante, CA 94820-0661

POSTMASTER: ADDRESS CORRECTION REQUESTED

**Next Meeting: November 12**

Denny's on the corner of San Pablo Ave. and Potrero Ave in El Cerrito, CA 94530

**Breakfast at 7:15 a.m. Club meeting at 8:00 a.m. Board meeting at 8:45**

***Holiday Party  
Contra Costa Communications Club  
& East Bay Amateur Radio Club***

***Saturday December 16, 2006***

**12:30 p.m. (seating begins) 1:00 p.m. (lunch served)**

Marie Callender's Restaurant & Bakery  
2090 Diamond Blvd., Concord, CA 94520  
(925) 827-4930

*(Number for each entrée & pie)*

\_\_\_\_\_ **Meatloaf Luncheon** [Mash Potatoes & Gravy, Seasonal Mix Vegetables, Cornbread]

\_\_\_\_\_ **Roasted Turkey Luncheon** [Stuffing, Mash Potatoes & Gravy, Seasonal Mix Vegetables, Cornbread]

\_\_\_\_\_ **Lemon Chicken Luncheon** [Rice Pilaf & Seasonal Mix Vegetables, Cornbread]

\_\_\_\_\_ **Apple Pie**

\_\_\_\_\_ **Pumpkin Pie**

\_\_\_\_\_ **Chocolate Cream Pie**

Meal includes either: foundation drink, iced tea or coffee  
{Bar Drinks not included in above price but a full bar is available}

Name: \_\_\_\_\_

\_\_\_\_\_ @ \$18.00 per person = \$\_\_\_\_\_

Make check payable to "Contra Costa Communication Club"

Mail to: P.O. Box 20661, El Sobrante, CA 94820-0661

(Yes you can include your dues on one check)

Questions: Please contact Barbara Grazer-Robinson KD6OKJ 510-222-4990

# CONTRA COSTA COMMUNICATIONS CLUB, INC.

## 2007 MEMBERSHIP RENEWAL

Dues are due January 1 and become delinquent on March 1.

Renewals received after March 31 will not be in the 2007 Roster.

### DUES:

Charter \$10.00

New Life Membership 10 times your dues (\$25 x 10 = \$250)

Life Member Renewal (Supplying Information Only)

Regular \$25.00

Family Membership \$15.00 (with a regular or retired membership)

Retired Membership \$15.00

Name: \_\_\_\_\_ Call Sign: \_\_\_\_\_ Class \_\_\_\_\_ ARRL Member <sup>(Circle one)</sup> Y N

Name: \_\_\_\_\_ Call Sign: \_\_\_\_\_ Class \_\_\_\_\_ ARRL Member Y N

Name: \_\_\_\_\_ Call Sign: \_\_\_\_\_ Class \_\_\_\_\_ ARRL Member Y N

PACKET BBS: \_\_\_\_\_ PERSONAL PACKET MAIL BOX FREQUENCY: \_\_\_\_\_

EchoLink Node Number \_\_\_\_\_

### CHECK YOUR ROSTER LISTING IF ANYTHING CHANGED PLEASE COMPLETE:

ADDRESS: Home: \_\_\_\_\_ Mailing (If Different) \_\_\_\_\_

City: \_\_\_\_\_ Zip: \_\_\_\_\_ City: \_\_\_\_\_ Zip: \_\_\_\_\_

E-MAIL: \_\_\_\_\_ Phone Number: \_\_\_\_\_

TOTAL ENCLOSED \$ \_\_\_\_\_

### DO NOT MAIL CASH

Make check payable to: **CONTRA COSTA COMMUNICATIONS CLUB** Mail it **AND** this notice to:

**CONTRA COSTA COMMUNICATIONS CLUB, INC.**

**P.O. BOX 20661**

**EL SOBRANTE, CA 94820-0661**

Remember the club can benefit from your ARRL renewal if you file it through the club. Contact Victoria, KE6FSU for the special renewal form you must use to have part of your payment to ARRL go to the club.

We can receive **\$15** for each NEW membership and **\$2** for each renewal submitted (*regular and senior memberships only*). A NEW MEMBER is defined as any individual who has never been a member of ARRL or any individual who has not retained a membership for two or more calendar years prior to the application submission. A RENEWING MEMBER can renew at **anytime**, even before their current membership term expires.