



the Milliwatt



The award-winning monthly publication of
The Baltimore Radio Amateur Television Society
P.O.Box 5915 Baltimore, MD 21282-5915

September, 2008

FCC to Raise Vanity Call Sign Fees

On August 11, the FCC announced that the cost of an Amateur Radio vanity call sign will increase 60 cents, from \$11.70 to \$12.30. The fee will increase 30 days after notice of the increase is published in the *Federal Register*; no date has yet been set for publication. The FCC is authorized by the *Communications Act of 1934, as amended*, to collect vanity call sign fees to recover the costs associated with that program. The vanity call sign regulatory fee is payable not only when applying for a new vanity call sign, but also upon renewing a vanity call sign for a new 10 year term.

FCC Vanity Call Sign Fees to Increase September 25

On August 11, the FCC announced that the cost of an Amateur Radio vanity call sign will increase 60 cents, from \$11.70 to \$12.30. Now that notice of the increase has been published in the Federal Register, the increase will take effect in 30 days, September 25, 2008.

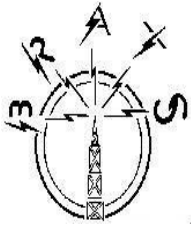
New Tower, Antenna Modifications for W1HQ

On August 13, Matt Strelow, KC1XX, and Andrew Toth of XX Towers installed a new 40 foot tower on top of the ARRL Headquarters building for use at W1HQ, the Laird Campbell Memorial HQ Operators Club. This new tower supports the 3 element SteppIR 20-6 meter Yagi antenna that was moved from the old tower; the antenna was placed on the old tower in November 2007. The antenna also received modifications, allowing operations on 30 and 40 meters. Both the antenna and the 30-40 meter modification kit were donated by Mike Mertel, K7IR, of SteppIR.

According to ARRL Test Engineer Bob Allison, WB1GCM, XX Towers visits the League twice a year to inspect both the W1AW and W1HQ antenna systems: "This past May, Matt's inspection found the tower was approaching poor condition due to its age and harsh environment. The new tower supports our 3 element SteppIR Yagi with a newly installed 40-30 meter Dipole Kit, recently donated by SteppIR Antenna Systems. HQ staff can now enjoy these additional bands and have peace of mind with the new tower."

Prolific Author Tom Kneitel, W4XAA SK

Tom Kneitel, W4XAA, better known to hams by his previous call sign K2AES, died August 22 at age 75. He lived in DeLand, Florida, where he and his wife Judy had moved in 2004



the Milliwatt

The award-winning monthly publication of The BRATS.

Items herein may be reprinted with credit.

Mayer D. Zimmerman, W3GXX, Editor

Some Thoughts

You may have noticed something different about this month's MILLIWATT. It has fewer pages. That's right, I have cut back from 12 sides to 8 sides. Now that I am retired after 38 years of federal service, I do not have the time I used to have to put together The MILLIWATT in the style to which you are accustomed. My consulting is taking more time than I had thought, but my new computer ought to make up for the time it takes to put together The MILLIWATT ... Perhaps next month we will be able to go back to 12 sides ... Hang in there with us ...

Thanks again to all and 73,
Mayer, W3GXX

The Baltimore Radio Amateur TV Society, Inc. P.O. Box 5915 Baltimore, MD 21282-5915

a non-profit organization under section 501(c)(3) of the Internal Revenue Code and a non-profit corporation in the State of Maryland. We belong to and support the Foundation for Amateur Radio (FAR) and the American Radio Relay League (ARRL).

home page: <http://www.bratsatv.org>

e-mail: brats@bratsatv.org

InfoLine: 410- 461-1212

Meetings: 3rd Tuesday, 7:15 PM, Pikesville Library, 1301 Reisterstown Rd., Pikesville, MD.

President: Ed Rosen, N3GXH

Vice Pres: Edward Koritzer, N3DGY

Secretary: Mayer D. Zimmerman, W3GXX

Treasurer: Les McClure, W3GXT

Webmaster: Laura F, KB3LJM

Chairman of the Board: Heru Walmsley, W3WVV

Vice Chairman, Technical: Mike Dees, N3EZX

Vice Chairman, Operations: Ian Millet, N3CVA

BRATS Repeaters

BRATS Linked Repeater System:

WB3DZO: 147.03+, 224.96-, 448.325-

BRATS Stand-alone repeaters:

443.350+

BRATS Packet Network Nodes

W3GXT-5 145.05

W3GXT-10 224.52

BRATS ATV Repeater System:

W3WCQ: inputs: 426.25, 1253.25

outputs: 439.25, 911.25

BRATS Weekly Nets

Mon 9 pm Traffic and Info Net, W3GXX

Tues 11:45 Informal ATV Net, W3WVV

Tues 9 pm BRATS Horsetraders Net, Grant, KA3CEA

Wed 9 pm CATS ATV Net

Thurs 9 pm BRATS ATV Net

Sat 1 pm Weekly News Bulletin, W3GXX

Sat 1:20 The BRATS Answer Men: KB3JQQ

Sun 8 pm MATS ATV Net

As needed Weather/Emergency Net, Skywarn

BRATS Board of Directors

Through 12/09:

KA3IDB, KB3FIF, K0RYX

Through 12/08:

W3ZQI, KB3LJM, K2GZY

Regular BRATS Meetings

3rd Tuesday of each month, 7:15 PM

Pikesville Library, 1301 Reisterstown Rd

Next BRATS Meeting

Tuesday, September 16, 7:15 PM

Pikesville Library

1301 Reisterstown Road, Pikesville

Bomb squad disposes of unexploded ordnance

Dave VonDielingen found a little more than he bargained for when he was cleaning out a shed on his farm near here Tuesday morning. What he found was some unexploded ordnance, possibly from World War II, his father-in-law brought home during his military service. It looked to me it might be something military, he said, some type of explosive ordnance. So, he stopped moving stuff around and called Garfield County Sheriff's Department at about 9:15 a.m. VonDielingen's wife, Joyce, said her late father, Ira Simmering, served in the Army in the Aleutians Islands and the Philippines during World War II. He also served during the Korean War. Mom said Dad brought it home in his luggage, she said. Mom thought it was from World War II. The VonDielingens live on the farm that belonged to her parents. Deputy George Dillman investigated, and Oklahoma Highway Patrol's bomb squad was notified. Members came from Oklahoma City to handle the situation, eventually blowing up the items around 1 p.m. in a field near the VonDielingens' home in the 17700 block of East Wil-low. Garfield County Under-sheriff Jerry Niles said it wasn't known if the ordinance was live. They don't take any chances, he said of the OHP bomb squad. He said it appeared the items were Japanese, based on some writing on one of them. Joyce VonDielingen said OHP bomb squad members dug up what was left of the items after they were destroyed, and she and her husband were allowed to keep the fragments. Dave VonDielingen, who is cleaning out the shed **to make it a place for his amateur radio hobby**, said he has been through the shed and did not think any more surprises would turn up.

A Fish Story

Four catfish on the runway at Florida's Melbourne International kept a Delta flight from landing on time Wednesday as Tropical Storm Fay hovered over the region, according to WFTV Channel 9 of Orlando. "The walking catfish, which use their pectoral fins to move and can stay out of water for some time, were on the runway and airport crews had to move them before the plane could land," WFTV writes on its website. A FLORIDA TODAY blog noted the issue on Wednesday, saying two gopher tortoises and an indigo snake also had to be cleared from the airport's runway and taxiway areas. "An alligator also was on the taxiway, but it eventually returned to a nearby canal on its own, (airport spokeswoman Lori) Booker said. She said the animals apparently were displaced by flooding," FLORIDA TODAY writes. "We thought one of the tortoises was the top of one of the taxiway lights -- then it started to move," airport operations manager Cliff Graham tells FOX 35 TV of Orlando. "We had to get the four walking catfish off the runway before Delta could land," Graham says. "We all got soaked, but it was important to clear the runway to ensure passenger safety and to get the animals out of harm's way," adds Melbourne airport chief Richard Ennis.

Amateur Radio, D-Star in Maryland

From Dave Rollhauser KB3CJT,

To anyone Interested, I have created the Maryland D Star Users Discussion Group at http://groups.yahoo.com/group/md_d-star_users The idea behind the creation of this group is to promote discussion of the D-Star digital voice and data mode and sharing of ideas and useful information with other hams that have or are planning to buy radios equipped to use this mode in Maryland and surrounding areas. Since purchasing an Icom IC-2820H VHF/UHF mobile rig along with the digital board, I have had a few discussions with other hams from around the area and decided this could be great way to share information with others or even possibly coordinate a few simplex QSOs between others in the area who have the equipment and would like to try it out even though there are no current D-Star repeaters in the area. It would be great to hear from prospective repeater owners (clubs included) as well as those in surrounding areas that already have repeaters who can share what they have already learned. So, WELCOME to all who share an interest in the use of D-Star in here Maryland and surrounding areas regardless of your band of choice or whether you prefer voice or data. Come share what you know or ask about what you might wish to learn. Keep in mind I am no expert in this subject, just another interested ham who thinks this new technology has a great potential and would like to see it grow in our area. I would like to ask those who receive this letter if they would please help spread the word and pass this information to other hams, especially through club newsletters and websites.

73's de, Dave Rollhauser KB3CJT

Dutch Amateur Radio Satellite Now Live

The linear transponder aboard the new Dutch OSCAR 64 satellite (otherwise known as Delfi-C3) is now open for CW and SSB operation. The spacecraft boots into transponder mode whenever it is in full sunlight. Ground controllers will briefly switch the satellite to either "basic" or "science" configuration once every two weeks; otherwise, the linear transponder will be the default mode. The transponder uplink passband is from 435.530-435.570 MHz with a downlink passband from 145.880-145.930 MHz. The transponder CW beacon can be heard at 145.870 MHz. Delfi C-3 was successfully launched April, 28, 2008 from India aboard a Polar launch vehicle and was successfully commissioned, currently transmitting telemetry on the 2 meter amateur band. In addition to its 2 meter downlink, Delfi C-3 has an uplink on the 70 cm band. The satellite was developed by a team of some 60 students and faculty members from various polytechnic schools in The Netherlands. Delfi C-3 carries two experiments -- one involving thin film solar cells developed by Dutch Space, and an autonomous wireless Sun sensor from the Dutch Government Research Institute (TNO). E-mail reports are welcome

Satellite Shorts

The Mid-Atlantic States VHF Conference on Saturday September 27 in Blue Bell, PA will include a presentation by Bob, N4HY to discuss Software Defined Radio Advancements. Also included in this weekend is the HAMARAMA hamfest on Sunday, September 28. For more information see <http://www.packratvhf.com> AO-51 ground controllers have been able to boost downlink power due to increased solar illumination. Both repeaters were reported to be operating at around 400 mW this week in dual V/U mode. AMSAT area coordinator, Clint Bradford, K6LCS, demonstrated operating via AO-51 and gave his "How to Work Ham Satellites with your HT" presentation in Tarzana, CA, on Saturday morning, August 9. Clint has a 4 page satellite operating tutorial available on-line at: <http://homepage.mac.com/clintbradford/Menu3.html>

The K7RA Solar Update

(Aug 15, 2008) Our Sun is still not producing any sunspots. As mentioned in previous bulletins, the peak of the last Solar Cycle was a double peak, so perhaps we are in the midst of an extended bottom. Sunspot numbers for August 7-13 were 0, 0, 0, 0, 0, 0 and 0 with a mean of 0. The 10.7 cm flux was 66.1, 65.5, 65.5, 65.6, 65.7, 65.2 and 65.3 with a mean of 65.6. Estimated planetary A indices were 4, 4, 18, 13, 7, 6 and 5 with a mean of 8.1. Estimated mid-latitude A indices were 3, 3, 16, 9, 6, 6 and 3 with a mean of 6.6.

Boingo Wireless Launches Wi-Fi at Ronald Reagan and Dulles Airports

New Additions Give Boingo Users Access to Every Major Airport on the Eastern Seaboard Boingo Wireless, the global market leader in Wi-Fi, announced the launch of Boingo service at both Dulles International Airport (IAD) and Ronald Reagan Airport (DCA) in the Washington, DC area. Boingo members can now use their Boingo login and passwords on the Boingo landing page to access the Internet or automatically connect using GoBoingo software at both of these airports. Travelers can purchase Internet access in these airports from Boingo Wireless for \$4.95 an hour or \$7.95 for 24 hours, which also includes access to the entire Boingo network of more than 100,000 hotspots. Boingo also offers a monthly plan for \$21.95 that provides unlimited access to thousands of hotspots in North and South America, as well as Boingo Global for \$39 a month that provides access to the Boingo Partner Network worldwide.. More information about Boingo and Concourse is available at <http://www.boingo.com> and <http://www.concoursecommunications.com>.

ARRL DX Bulletin

WA7BNM Contest Calendar

- Aug. 30-31
 SCC RTTY Championship
 YO DX HF Contest
- Aug. 31
 SARL HF CW Contest
- Sept. 1-2
 MI QRP Labor Day CW Sprint
- Sept. 6-7
 All Asian DX Contest, Phone
- Sept. 6
 Wake-Up! QRP Sprint
 AGCW Straight Key Party
- Sept. 7
 North American Sprint, CW
 DARC 10-Meter Digital Contst
- Sept 7-8
 Tennessee QSO Party
- Sept 13-14
 WAE DX Contest, SSB
- Sept 13
 Swiss HTC QRP Contest
- Sept 14
 North American Sprint, SSB
- Sept 19-21
 SARL VHF/UHF Contest
- Sept 20-21
 ARRL 10 GHz and Up Contest
 Washington State Salmon Run
- Sept. 27-28
 CQ WW DX Contest, RTTY
 Texas QSO Party
- Oct. 2
 SARL 80 Meter QSO Party
- Oct 4
 EU Autumn Sprint SSB
- Oct. 10
 10-10 Intl 10-10 Day Sprint

(Thanks, Bruce, WA7BNM)

MALDIVES, 8Q.

Andrew, G7COD, will be active from the Island of Embudu in the Kaafu Atoll, (AS-013), using the callsign 8Q7AK from October 12 to 25. Activity will be on 40 through 12 meters using CW and SSB. He plans to be operational every day from approximately 0730-0830z, 0900-1030z, 1300-1500z and 1730-1745z. Suggested frequencies are (+/- QRM): SSB - 7063, 14147, 18133, 21253 and 24953 kHz, and CW - 7003, 10103, 14003, 18073, 21003 and 24893 kHz.

KENYA, 5Z.

Valery, RW1AU is QRV as 5Z4/RW1AU for the next several months while on work assignment in Nairobi. He is active mostly on SSB, but may be on CW soon. QSL via K5XK.

KALININGRAD, UA2.

Alex, UA2FFW has been active using RTTY on 20 meters just after 2100z.

Reunion Island, South Africa Connect on 2 Meters

On Thursday, August 14, Phil Mondon, FR5DN, on Reunion Island had a successful QSO with Glen Kraut, ZS2GK, in South Africa on 2 meters. According to Dave Pedersen, N7BHC, this contact is "very likely the longest 2 meter QSO via tropospheric propagation for either country."

New 2 Meter Beacon in NC

A new two meter propagation beacon has become operational from Oriental, North Carolina. Its callsign is N7BHC/B and it operates Morse on 144.290.8 MHz. Power out is 50 watts at the antenna which is a KLM yagi pointing 70 degrees. QSN reports go to n7bhc_ob_remote@carolina.rr.com (VHF Reflector via KB3JQQ)

Amateur Radio Exams, Licensing Return to Bangladesh

Since 2004, Amateur Radio operators in Bangladesh have not been able to get an Amateur Radio license or sit for an examination. But thanks to the efforts of the Bangladesh Amateur Radio League (BARL) -- that country's IARU Member-Society -- the Bangladeshi government will once again issue ham licenses; exams will also be given on a monthly basis beginning August 13, 2008.

ARRL DXCC Desk Approves 5X4X Operation

ARRL DXCC Manager Bill Moore, NC1L, reports that the 5X4X operations in Uganda -- from 2007 to present -- have been approved for DXCC credit. "If you had cards rejected for this operation, please send an e-mail to the ARRL DXCC Desk to have your DXCC record updated," Moore said.

Hamfests and Events

Sat./Sun. Sept. 20-21 - Virginia Beach, VA

Va. Beach Hamfest ; VA Wesleyan College. 1584 Wesleyan Dr. VA Beach. (146.97/R) Lynn, W9DJQ, 757-479-1597 hamfest@exis.net

Sunday, October 5: W. Friendship, MD

CARAFest 2008, Howard Co. Fairground (410) 552-2632; <http://www.carafest.org>

Sunday, October 26: Westminster, MD

Mason-Dixon Hamfest at Carroll Co. Agr. Center, off Rte. 32, Westminster, MD <http://www.qis.net/~k3pzn>; 145.410/R

More ARRL DX Bulletin

MALAWI, 7Q.

Joe, 7Q7BP has been active on 160 meters around 0330z.

BOSNIA AND HERZEGOVINA, E7.

Slaven, E77AA has been active on 20 meters CW.

IRAN, EP.

Rooyan, EP3PK has been active on 20 meters using SSB around 1800z. QSL via IK2DUW.

JAN MAYEN, JX.

Svein is QRV as JX9JKA and has been active on 20 meters from around 2000 to 0000z. QSL via LA9JKA.

US VIRGIN ISLANDS, KP2.

Jaime, WP3A is QRV as KP2B from St. Croix, IOTA NA-106. Activity is on 40, 20, 15 and 10 meters using CW and SSB. QSL via EA7FTR.

CHAD, TT.

Francisco is QRV as TT8FC and has been active on 20 meters around 1500z. QSL via EA4AHK.

ANTARCTICA.

Vasily, RA9LI/9 is QRV from a meteorological station in the on Bely Island,

IOTA AS-083.

His length of stay is unknown. Activity has been on 20 meters around 1530 to 1830z. QSL via UA9LP.

UZBEKISTAN, UK.

Victor, UK8AKK has been active on 20 meters using RTTY around 1600z.

LAOS, XW.

Bruce, XW1B has been active on 20 meters around 0000z and also around 1430z. QSL via E21EIC.

UK SOVEREIGN BASE AREAS ON CYPRUS, ZC4.

Tom, ZC4TS has been active on 20 meters around 1800z.

VE EXAMS

BARC VE EXAMS for 2008

12360 Owings Mills Blvd. Owings Mills Register: 1:30 PM, Exams begin 2 PM. No one admitted after exams begin

Saturdays: Aug. 2, Sept. 6, Nov 2, Dec 1.

Sundays: Oct. 5. n3wke@arrl.net (Thanks, N3YI)

2008 AERO VE EXAMS

Registration at 1 PM, Exams at 1:30.

Fee \$14 (ARRL VEC); All exams at White Marsh Library, 8133

Sandpiper Circle; Sept. 27, Nov. 22. Pat Stone, AC3F,

ac3f@juno.com, 410-687-7209

Other Club Exams

2nd Saturday, 1 PM, Davidsonville, by AARC. Register 12 noon. Bob, AA3RR, 410-437-8193

3rd Saturday, 9 AM, Laurel, by LARC, 384 Main St. John Creel, WB3GXW, 301-572-5124.

4th Tuesday, 6 PM, Linthicum. At Historical Electronics Museum. Harold, WB4OGP, 410-757-0493(h); 410-712-6829(w)

Do blondes have more funds?

Rod Stewart fans know that blondes have more fun, but what about cold, hard cash? A study in the current *Economics Letters*, entitled *Fund-raising success and a solicitor's beauty capital: Do blondes raise more funds?*, suggests that fair-haired folks have money sewn up as well

In a fund-raising experiment, investigators sent 44 women, blondes and brunettes, door-to-door in Pitt County, North Carolina, asking for donations to the Center for Natural Hazards Mitigation Research at East Carolina University. A 2006 study of the data found that more attractive women garnered contributions that were 50% and 135% larger than the average donation to the fund. The latest analysis found that blondes, beautiful or not so much, raised 71.6% to 76.0% larger donations on average.

"Interestingly, the returns to beauty for blonde females are driven entirely by Caucasian households," the researchers found.

Don't forget to check in with us: BRATS ATV Nets, see last page

milliwatt swap shop

ads are free and get results!

Send ad to: BRATS, P.O. Box 5915
Baltimore, MD 21282-5915, or email
to w3gxk@verizon.net

ATTENTION: if you do NOT want your ad to run again,
please send me an email to that effect.

Thanks! w3gxk@verizon.net

WANTED: 6-meter all mode transceiver Kenwood TS 600
or equivalent, Neil, W3ZQI, DAYS: 410-765-8439 or
neilatv@yahoo.com

FOR SALE: mtrs mkd +-10kHz, 0-100 microamps in
cabinet, \$10, mtrs and cabinet. 0-50 milliamps & 0-150
VAC \$56 each. 2-80 mtr. Dipole w/insulators and nylon
line, \$10. Homebrew VSWR bridge, %5 .Regal RSDP-com
duplexer spillter combiner, 2 Mtr./440 \$10. Panoramic
adapter BC-1031C \$40, Millen antenna matching pre-amp
with 27-32 MHz plug-in \$5. Call Ted, W3OWN.
410-668-5580, if I am out, leave message, I will call back...

FOR SALE: Heathkit SB 1000 linear amplifier, \$750 +
shipping; 1200 watt transmitter, 3-1000 tube requires 100
watt for 1K output, companion power supply 120V, only
744 hours use, both built by electrical power engineer and in
100% working order, \$2000 plus shipping; HyGain HDR
300A rotator, 25 sq ft wind load and control box \$ 950 +
shipping. Kenwood TS-930S xcvr., \$300 + shipping.
Contact Joel, W3YZI, at 410-913-9863.

FOR SALE: Special! ICOM BC-110A battery charger ,
12vDC 200mA, for ICOM T8A or similar. Used only twice,
misplaced, bought a new one. Found it after new one
arrived. Cost \$46, make me an offer. Mayer, W3GXX,
410-786-6839 or w3gxk@verizon.net

FOR SALE: Alinco 110 2-mtr. xcvr. \$100. ACI linear for 2
meters, \$20. Heath HM102 power meter w/ antenna selector
\$40. Call Jerry, KB3AP, 443-618-0618

FREE! You remove! TV grade 30-35 foot tower in New
Market, MD (off I-70). Dennis 410-842-3336.
dennis.kinsel@ngc.com

VTS - VIDEOTAPING SERVICE

Video/DVD duplications, video tape transferred to DVD.
One source up to 2 hours, \$30. Standards, conversions. Call
VTS toll free at 1-877-891-1002. BRATS member Bob
Shapiro, K2MYS <http://www.videotapingservice.com>

JADE COMPUTERS, LLC

1009 Ingleside Ave, Baltimore, MD 21228. Phone
410-719-1246 ; Fax 410-719-9494. Your answer to custom
built PC, office and home networking. Reseller for Net
Integrity server, cable modem, DSL, webpage design and
hosting POS and networking. We do CPR to your CPU.
Kid tested, mother approved. Order PC on line:
<http://www.jadecomputers.us> email:
joed@jadecomputers.us

Antique Radio Repair, Restoration

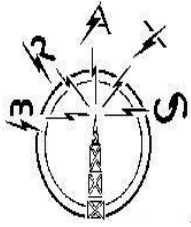
Eric, WA3TAD, Audio-Visual Service / Retro Radio, 3401
Chestnut Avenue, Baltimore, MD 21211. 410-467-3620;
wa3tad@comcast.net

Radio Consignment Shop at Overlea Hobbies

8411 Harford Road, Parkville, 410-665-3622. Home of fine
trains, model kits, x-acto, cars, planes, ships, many radios.
Yaesu FT101ZD, Kenwood TS 820S, 930S, Heathkit
SB-102, National NC-183, more ... Dick, N3JWN,
410-488-2806

WANTED: AC Gilbert erector sets; old, new, large, small,
need not be complete. CASH paid. Lewis, 410-296-4874

WANTED: Your ad for this space. Send copy to
w3gxk@verizon.net



the Milliwatt



The award-winning monthly publication of
The Baltimore Radio Amateur Television Society
P.O.Box 5915 Baltimore, MD 21282-5915

September 2008

LOCAL ATV NETS

Tuesday, 11:45 AM
Informal Net, W3WVV (Audio on 147.03/R)

Wednesday, 9 PM
CATS Net, rotating Net Control (Audio on 147.345+/R)

Thursday, 9 PM
BRATS Net, Rotating Net Control (Audio on 147.03/R)

Sunday
MATS Net, KB3LNN, 3 PM: International, 8 PM
Standard (BRATS ATV and Linked FM Repeaters)

UTAH ATV

Lots of projects and links:
http://www.ussc.com/~uarc/utah_atv/utah_atv.html
(Thanks, Scott, KB3JQQ)

Interesting Web Site

British Amateur Television Club (BATC)
<http://www.batc.org.uk>

Next BRATS Meeting

Tuesday, September 16, 7:15 PM
Pikesville Library
Please plan to join us!

Other Radio Club Meetings

QCWA

Monday at Noon, Cactus Willie 7315
Ritchie Hwy, Glen Burnie
3rd Thursday, 1 PM: Old Country Buffet,
Joppa Road at Satyr Hill
Last Wednesday, 1 PM: Denny's Bel Air Rd
at Putty Hill

AARC

1st and 3rd Thursdays, 7:30 PM
Davidsonville Family Rec. Center, Queen
Anne Bridge Rd, Wayson Rd (147.105R)

AMRAD

2nd Thursday, 7:30 PM,
Dolley Madison Library; 1244 Oak Ridge
Ave. McLean, VA (147.21/R)

BARC

1st and 3rd Wednesday, 7:30 PM
12360 Owings Mills Blvd (near warehouse)
Owings Mills, MD (146.67R)

CARA

4th Tuesday,
Gateway Center, Rm 401, 6751 Gateway Dr.
Columbia South off Rt 175 (147.135/R)

How Do I Join The BRATS?

I want to become a member, what do I do? Just print out the form below and mail it with your check (Member, \$15; Retired/Disabled/Student, \$10; Family, \$20) to: BRATS, PO Box 5915, Baltimore, MD 21282

BRATS Membership Renewal: Regular=\$15; Retired/Disabled/Student \$10; Family \$20

Name _____	Call Sign _____	BRATS No _____
Address _____	City/State/Zip _____	
Phone _____	Email _____	

MAIL TO: BRATS, P.O.Box 5915, Baltimore, MD 21282-5915
