



# the Milliwatt



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

## February, 2010

### NCVEC Releases New Technician Class Question Pool

The Question Pool Committee (QPC) of the National Conference of Volunteer Examiner Coordinators (NCVEC) released the new Technician class (Element 2) question pool on Monday, January 4. This new question pool will become effective for all examinations administered on or after July 1, 2010; it will remain valid until June 30, 2014.

The current Technician question pool that became effective July 1, 2006 will expire June 30, 2010.

The new Technician pool contains approximately 400 questions, from which 35 are selected for an Element 2 examination; it will contain graphics and diagrams, something new for this element.

The current General class question pool was effective July 1, 2007 and is valid through June 30, 2011.

The current Amateur Extra class pool was effective July 1, 2008 and is valid until June 30, 2012.

### Attention All Amateurs...

#### HF Frequencies for Haiti Return to Normal Use

Considering the improving communications situation in Haiti, Dr Cesar Pio Santos, HR2P, IARU Region 2 EMCOR, announced the release of HF frequencies, including 7.045 and 3.720 MHz, for normal use. "We thank the world radio amateur community for their support in keeping these frequencies clear during the past days."

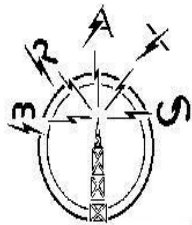
#### ARRL Board Elects 15th President: Kay Craigie, N3KN

As its first order of business at the 2010 Annual Meeting, the ARRL Board of Directors elected ARRL First Vice President Kay Craigie, N3KN, of Blacksburg, Virginia, as the organization's new President. She will take over the reins from outgoing President Joel Harrison, W5ZN, at the close of the Annual Meeting. In October, Harrison advised the Board that he would not seek re-election.

#### General Q&A, Extra Q&A Now Available for Kindle

In December 2009, the ARRL's Tech Q&A debuted on **Amazon.com** for use with Kindle. Now we are pleased to announce that the General Q&A and the Extra Q&A are now available directly from the online bookseller for use on the Kindle. Kindle is shaped much like a book with a paper-like screen that displays text and pictures. Those who have the Kindle application installed on their Apple iPhone, iPod touch -- or even on their computer -- can download the book for use on these devices. When you download the Tech Q&A, General Q&A and the Extra Q&A, you get access to these study tools quickly and easily, smoothing the path to your first -- or next! -- ham radio license. Studying on the Kindle is perfect for today's busy lifestyle, whether you're at home, in the office, traveling or just on the go. Each version of the Q&A lets you review questions and answers from that element's entire question pool so you can pass your exam. All three versions are available for purchase from **Amazon.com** for \$9.99 each.

For email notifications of BRATS meetings and new issues of The Milliwatt, [join theMilliwatt Yahoo! group](#)



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The award-winning monthly publication of The BRATS.  
Items herein may be reprinted with credit.

Mayer D. Zimmerman, W3GXX, Editor

## Some Thoughts...

This month we return to an old theme. Try a new mode. Many years ago, when 20 meter phone was pretty dead, I got on 40 meter CW and found that I liked it. In no time, my speed was up over 20 wpm and I was enjoying CW. This month we have several articles on satellites, including uplink and downlink frequencies. Try it! You may find that you like it. If not, try another mode ...  
73, Mayer, W3GXX

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## 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](mailto:brats@bratsatv.org)

InfoLine: 410- 461-1212

Meetings: Irregular dates, 7:15 PM, Pikesville Library, 1301 Reisterstown Rd., Pikesville, MD.

*(Please see list of meeting dates on this page)*

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, N3EZD

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+, 224.8-

### 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

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:

Sun 8 pm MATS ATV Net

As needed Weather/Emergency Net, Skywarn

## BRATS Board of Directors

### Through 12/11:

KA3IDB, KB3FIF, K0RYX

### Through 12/10:

W3ZQI, KB3LJM, K2GZL

## Regular BRATS Meetings

7:15 PM at the Pikesville Library,

1301 Reisterstown Rd, Pikesville

On irregular dates as follows:

February 18, March 15, April 15, May 13, June 17

**NEXT MEETING: Thursday, February 18, 7:15 PM**

**FCC Seeks Public's Help in Reform Effort**

According to its chairman, the Federal Communications Commission wants to change the way it is seen by the American public. In order to further that effort, on January 7, FCC Chairman Julius Genachowski announced that the Commission has launched a new Web site -- [Reboot.FCC.gov](http://Reboot.FCC.gov)-- saying it is the first-ever Web site dedicated to soliciting public input on ways to improve citizen interaction with the FCC, "creating a forum where the public can participate in improving the FCC."

**The 2009 ARRL Periodicals on CD-ROM ; Now Shipping**

The 2009 ARRL Periodicals on CD-ROM is now available and includes the complete 2009 fully searchable collection of three ARRL journals -- *QST*, *QEX*, and the *National Contest Journal (NCJ)*. In addition, the CD-ROM includes source code for software projects and PC board patterns, Section News, as well as the ever-popular Contest Soapbox and Contest Results. Search the full text of every article by entering titles, call signs or names. See every word, photo -- most in color -- drawing and table in technical and general-interest features, columns and product reviews, plus all advertisements. Print what you see, or copy it into other applications. System requirements: Microsoft Windows and Macintosh systems, using the industry standard Adobe Acrobat Reader software. CD-ROMs for other years are also available.

**Satellites to be built in the UK**

Surrey Satellite Technology, which is headed up by Martin Sweeting, G3YJO, has been awarded a contract to build 14 spacecraft for the Galileo Satellite Navigation project. Plans are to have the satellites coming off the production line in the second half of 2012. Arianespace will use Russian-built Soyuz rockets to launch these global positioning spacecraft in batches of two.

**San Francisco airport expected to make WiFi a freebie**

Travelers waiting to fly may soon be able to surf for free at San Francisco International Airport. Officials are expected to approve a deal on Tuesday to provide travelers a free wireless Internet connection at the airport. The move, which would still need to be endorsed by the San Francisco City Purchaser, would bring San Francisco in line with its Bay Area competitors. The San Jose and Oakland airports already offer free wireless. Officials are still trying to figure out how to offset the costs of providing the free service. Some ideas include WiFi related advertising or sponsorship.

**Last Surviving Crew Member of Kon-Tiki Expedition Passes Away**

Knut Magne Haugland of Norway, passed away on December 25. He was 92. Haugland was one of six men, who with Thor Heyerdahl in 1947, successfully crossed the Pacific Ocean in a 45 foot raft made of balsa wood and bamboo -- named Kon-Tiki -- to prove that people from South America could have settled Polynesia in pre-Columbian times.

**CES: Handheld digital televisions from LG**

A host of manufacturers here at CES are showing off mobile digital TVs, little devices that look similar to old handheld TVs, but with a twist -- they pick up digital signals. LG displayed its \$249 DP570MH Mobile Digital television here at the show, which the company calls the "first portable, battery-operated mobile DTV." The unit can pick up "hundreds" of signals being transmitted, thanks to last year's digital TV transition. "Even on a fast-moving train, a viewer should expect robust reception from favorite local channels," says LG's Tim Alessi, director of product development. The TV has a 7-inch screen and shows video in 480x234 resolution. LG will ship the TV later in the spring.

Next BRATS Meeting: Thursday, February 18 at  
7:15 PM, Pikesville Library,

**2009 Sees Surge of New Amateur Radio Licensees**

This past year was a banner year for new Amateur Radio licensees. According to [ARRL VEC](#) Manager Maria Somma, AB1FM, the FCC issued more than 30,000 new ham radio licenses. "In 2009, the demand for Amateur Radio exam sessions remained elevated and is still running at a higher rate than before the FCC's restructuring of the license requirements in 2007," Somma said. "This high level of exam session activity has produced an elevated influx of new applications, far outpacing recent years."

**From AMSAT****HO-68 SSTV Report**

Dec 30th, 17:53 UTC 20 deg pass

During a low elevation pass, Mike DK3WN and Henk PA3GUO made the very first SSTV contact via the HO-68 - linear transponder. A few images were transmitted between the two radio stations in Germany and The Netherlands. Signals were transmitted via HO-68, which was 1200km above earth and about 8000km distant from both radio amateur stations. See the images here: <http://www.dk3wn.info/p/?p=10478>

**Video of HO-68 operational modes**

Henk PA3GUO has produced a video showing all the modes available on the Amateur Radio satellite Xi Wang 1 (HO-68). This 2 minute video features the launch of the satellite and shows its various modes of operation -Beacon, FM, AX.25 Packet and SSB/CW linear transponder. Callsigns heard during the video include M3PQQ, N1AIA, KC9ELU, VA3FM, WA3CZY and I6IBE. You can find the video at <http://tinyurl.com/ycjp4dg>

NZ3M has put a video on YouTube of SSB contacts via the new Amateur Radio satellite HO-68. This video can be viewed at <http://tinyurl.com/ya2uyzs> Piraja, PS8RF reported that a contact between Dean, ZD8DC on Ascension Island and Michel, F6HTJ in France was completed via HO-68.

**HAM RADIO IN SPACE: SUMBANDILLASAT POWER OUT REDUCED**

SumbandilaSat has gone to a QRP power level. In order to conserve power for other operations on the new SO-67 South African SumbandilaSat ham radio satellite, ground control team have reduced the power of the transponder carrying amateur radio to 2 and 1/2 watts. Initial reports from stations in Australia indicate that the reduction is hardly noticeable and that the signals remain stronger than most other amateur radio satellites. Availability of the ZS0SUM payload will be during daylight hours when the satellite is in full sunlight. The actual schedule is published on-line at [www.amsatsa.org.za](http://www.amsatsa.org.za). We will have more ham radio space related news later on in this weeks newscast. (SA-AMSAT)

**From RSGB News****Band 501 to 504kHz in the Netherlands**

Starting on 1 January 2010, full licence holders in the Netherlands can opt for permission to conduct experiments in the band 501 to 504kHz with a maximum power of 5W EIRP and a maximum band width of 100Hz.

**30m operating permission granted in India**

Amateurs in India have received government permission to permanently operate on 30 meters on a secondary basis, though not all details of the new allocation are yet known.

**CW operator needed for rare IOTA DXpedition**

An experienced CW operator is needed for rare a IOTA DXpedition. An international group of operators will be active as 3W6C from Con Co Island, Vietnam which is IOTA reference AS-185, between 10 to 18 April. The DXpedition has an opening for one additional experienced CW operator. Full details about the DXpedition are available at [www.3w6c.qrv.ch](http://www.3w6c.qrv.ch). Interested operators are requested to send details about background and DXing experience to Hans-Peter by e-mail to [hb9bx3w6c.qrv.ch](mailto:hb9bx3w6c.qrv.ch)

**WA7BNM Contest Calendar**

- Feb 6-7  
Vermont QSO Party  
10-10 Int'l Winter, SSB  
Mexico RTTY Intl Contest
- Feb 6  
Minnesota QSO Party
- Feb 8  
AGCW Straight Key Party
- Feb 6-8  
Delaware QSO Party
- Feb 7  
North American Sprint, CW
- Feb 10  
AGCW semi-auto Key Evening
- Feb 13-14  
CQ WW RTTY WPX Contest  
SARL Field Day Contest  
Dutch PAACC Contest
- Feb 13  
Asia Pacific Spring Sprint, CW  
FISTS Winter Sprint
- Feb 14  
NA Sprint, SSB
- Feb 20-21  
ARRL Inter. DX Contest, CW
- Feb 26-28  
CQ 160-Meter Contest, SSB
- Feb 27-28  
REF Contest, SSB  
UBA DX Contest, CW  
NA QSO Party, RTTY
- Feb 28  
High Speed Club Contest
- March 2  
AGCW YL CW Party
- Mar. 6-7  
ARRL Inter. DX Contest, SSB  
DARC 10-Meter Digital Contest

(Thanks, Bruce, WA7BNM)

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**SILENT KEY**

George John Fritsch, Jr, WA3TOX  
December 28, 2009  
Father of Kurt, WA3TOY

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**ARRL DX Bulletin****CROATIA, 9A.**

Tom, 9A2AA is QRV with special event call 9A500AA until December 31, 2010. QSL to home call.

**PAPUA NEW GUINEA, P2.**

Peter, VY0PW is QRV as P29CS from LihirIsland, IOTA OC-069. QSL via operator's instructions.

**MEXICO, XE.**

In celebration of the two hundred years of Mexican independence and the 100th anniversary of the Mexican revolution, members of the Radio Club Queretaro are QRV as special event station 4A1B throughout all of 2010. QSL via LZ3HI.

**DJIBOUTI, J2.**

Darko, E70A is now QRV as J28AA. He is active on 80 to 10 meters using CW, SSB and RTTY. QSL via K2PF.

**POLAND, SP.**

In celebration of the 80th anniversary of the Polish Amateur Radio Union, PZK and 85th anniversary of the IARU, look for special event station 3ZORADIO to be active all throughout 2010. QSL via SP9SX.

**MOUNT ATHOS, SV/A.**

Monk Apollo, SV2ASP/A has been QRV using RTTY on 20 meters around 1130z. QSL direct.

**SENEGAL, 6W., GUINEA-BISSAU, J5.**

Peter, HA3AUI is QRV as 6W2SC until March 31 while On holiday. Activity is on 160 to 10 meters using mainly digital modes, with some CW and SSB if requested. QSL direct to home call.

**ANGOLA, D2.**

Vasiliy is QRV as D2QMN on 80 meters and other bands using CW, SSB, RTTY and PSK. QSL via RZ3EC.

**HUNGARY, HA.**

Gyuri, HA1CW is QRV with special event station HA2010S for all of 2010 during the 30th LEN European Championship in swimming, diving and other water sports that takes place in Budapest in August. QSL via operator's instructions.

**NORWAY, LA.**

Special event station LM50NRK is QRV during 2010 in celebration of the 50th anniversary of television in Norway. Activity is on the HF bands, including some satellite activity. QSL via LA4FPA.

**POLAND, SP.**

Special event station 3Z0FCH is QRV until June 30 in commemoration of the 200th birthday of Polish composer and pianist Fryderyc Chopin. QSL via SP7PAD.

**MACAO, XX9.**

Georg, DK7LX is QRV as XX9TLX from Coloane Island, IOTA AS-075. He is active on 80 to 10 meters using mainly CW. His length of stay is unknown. QSL to home call.

**ROMANIA, YO.**

Special event station YR5EPC is QRV from Transylvania until the end of 2010. QSL via YO6AJI.

## Hamfests

**Sunday, Jan. 31, 8 AM to 12 Noon:** MMARC Post Holiday Hamfest, Odenton Vol. Fire Dept. Hall, 1425 Annapolis Rd (Rte. 175) Odenton. 146.805/146.205; QSL checking, VE Exams at 9AM; Preregister with WB4OGP@arrl.netz Info, tables: Frank, N3SEO, 410-647-3335; or email n3seo@aol.com

**Saturday, Feb. 6** - Richmond, VA  
Richmond Frostfest, Richmond Raceway Complex, 600 E. Laburnum Ave., 146.88/R, PL 74.4; 540-872-5949

**Sunday, Feb 28**, Annandale, VA  
Vienna Wireless Society Hamfest No. Va. Community College, 8333 Little River Tpke; 146.91/R 703-626-3829

### NEXT BRATS MEETING

Thursday, February 18, 7:15 PM  
at the Pikesville Library.

## 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+

### Thursday, 9 PM

BRATS Net Rotating Net Control, Audio on 147.03/R

### Saturday- 8 PM

MATS Net - KB3LNN (BRATS ATV and linked FM Repeaters)

### Free IARU Locator Maps

Free IARU locator maps are available in PDF format for downloading. Maps are available for many nations on all continents. The US map include Hawaii and Alaska. You can find them at <http://iarumapsrussia.webs.com>

## VE EXAMS

### BARC VE EXAMS for 2010

at BARC Clubhouse 12360 Owings Mills Blvd. Owings Mills  
Register: 1 PM, Exams begin 2 PM. Free (Laurel VEC)  
[n3wke@arrl.net](mailto:n3wke@arrl.net) (Thanks, N3YI)

Saturday, Feb 6; Saturday, Mar 6; Sunday, Apr 12; Saturday, May 1;  
Saturday, Jun 5; Sunday, Jul 11; Saturday, Aug 7; Saturday, Sep 4;  
Sunday, Oct 3; Saturday, Nov 6; Saturday, Dec 4

### 2010 AERO VE EXAMS

Registration at 1 PM, Exams at 1:30.

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

*TBD*

Pat Stone, AC3F, [ac3f@juno.com](mailto: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)

### Complimentary Wi-Fi Service

now available at all Barnes & Noble stores. No fees. No charges. Just log on.

## milliwatt swap shop

*ads are free and get results!*

Send ad to: BRATS, P.O. Box 5915  
Baltimore, MD 21282-5915, or email  
to [w3gzk@verizon.net](mailto:w3gzk@verizon.net)

**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:** 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](mailto:dennis.kinsel@ngc.com)

**FOR SALE:** ICOM T2H 2 mtr HT with charger, belt clip, rubber ducky, manual, asking \$80. K3BCD, 410-866-5441 or [ywm@comcast.net](mailto:ywm@comcast.net)

**FOR SALE:** A bunch of meters. \$10; Dipole with insulators, and nylong line, \$10; Homebrew SWR bridge 2mtrs/440, \$10; Panoramic adaptor BC 1031C, \$40; Millen antenna matching pre-amp with 27-32 MHz plug-in, \$5; Call Ted, W3OWN, 410-668-5580, leave message, I will call back.

**SPECIAL DEAL:** ICOM BC-110 battery charger, 12vDC, 200 mA, for ICOM T8A or similar misplaced it, ordered a new one, then found it. Almost new, cost \$46, make me a reasonable offer. Mayer, W3GXX [w3gzk@verizon.net](mailto:w3gzk@verizon.net)

**WANTED:** AT-930 for a TS930S. Please send condition and price. Jerry. [jerrymcf@sbcglobal.net](mailto:jerrymcf@sbcglobal.net)

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### JADE COMPUTERS

1009 Ingleside Ave., Baltimore, MD 21228  
443-677-4187; [joe@jadecomputers.us](mailto:joe@jadecomputers.us) webpage design, hosting, order PC on-line <http://www.jadecomputers.us>

### VTS - Videotaping Service

Video, DVD duplications, video tape transferred to DVD; standards, conversions, call VTS toll free: 1-877-891-1002. BRATS member Bob Shapiro, K2MYS. <http://www.videotapingservice.com>

### Antique Radio Repair, Restoration!

Eric, WA3TAD, audio-visual service, retro radio, 3401 Chestnut Ave. Balto. 21211. 410-467-3620; [wa3tad@comcast.net](mailto:wa3tad@comcast.net)

### Overlea Hobbies; Radio Consignments

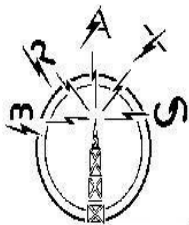
8411 Harford Rd. Parkville; 410-665-3622 fine trains, model kits, x-acto, cars, planes, ships, many radios: Yaesu FT-101ZD, Kenwood TS 820S, 930S, Heath SB-102, National NC 183, more. Dick, N3JWN, 410-488-2806

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

**WANTED to BORROW:** Shipping container for Kenwood TS-850S. Will pick up, or ship it to me. Will return it after I get my rig back from Kenwood. 410-668-5580. If not there, leave a message. Ted, W3OWN

**ATTENTION:** if you do NOT want your ad to run again, please send me an email and let me know.  
Thanks! [w3gzk@verizon.net](mailto:w3gzk@verizon.net)

**WANTED:** Your ad for this space. Send copy to [w3gzk@verizon.net](mailto:w3gzk@verizon.net)



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More 2010 BRATS meetings on the following dates: Monday, March 15; Thursday, April 15; Thursday, May 14; Thursday, June 17.

### **Other Radio Club Meetings**

#### 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)

#### 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)

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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

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