

the Milliwatt



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

August, 2009

W1AW to Add New Digital Modes to Transmission Schedule

On August 17, [W1AW](#), the Hiram Percy Maxim Memorial Station, will replace its AMTOR and ASCII transmissions with PSK31 and MFSK16, respectively. RTTY (Baudot) will continue to be the first digital mode used in the transmission schedule. The frequencies used by W1AW for all its digital transmissions will remain the same. All regular 6 PM and 9 PM (ET) digital transmissions will begin with RTTY, said W1AW Station Manager Joe Carcia, NJ1Q. PSK31 and MFSK16 will be sent as time allows. The Tuesday and Friday Keplerian data bulletins will be sent using RTTY and PSK31. The [W1AW operating schedule](#) -- complete with times and frequencies -- can be found on the ARRL Web site.

Three More Representatives Sign On for HR 2160

On July 13, three more Congressmen -- John Boozman (AR-3), Bob Filner (CA-51) and Dennis Moore (KS-3) -- pledged their support for [HR 2160](#), *The Amateur Radio Emergency Communications Enhancement Act of 2009*. This brings the total number of co-sponsors to 18. [Originally sponsored by Representative Sheila Jackson-Lee](#) (TX-18), HR 2160 is also sponsored by W. Todd Akin (MO-2), Michael Arcuri (NY-24), Roscoe Bartlett (MD-6), Madeleine Bordallo (Guam), Bart Gordon (TN-6), Brett Guthrie (KY-02), Michael Honda (CA-15), Mary Jo Kilroy (OH-15), Zoe Lofgren (CA-16), Blaine Luetkemeyer (MO-9), Thaddeus McCotter (MI-11), Charlie Melancon (LA-3), Bennie Thompson (MS-2), Peter Welch (VT) and David Wu (OR-1). Click [here](#) for information on how to encourage your Congressional representative to sponsor HR 2160.

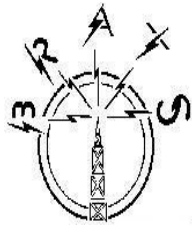
Attention All Amateurs ...

FCC Continues BPL Debate

On July 17, the FCC issued a *Request for Further Comment and Further Notice of Proposed Rulemaking (FNPRM)*, addressing the issues remanded to them by the US Court of Appeals. In October 2007, the [ARRL took the Commission to court](#) concerning the Commission's Orders adopting rules governing broadband over power line (BPL) systems. In April 2008, the [Court agreed with the ARRL](#) on two major points and remanded the rules to the Commission. Writing for the three-judge panel of Circuit Judges Rogers, Tatel and Kavanaugh, Judge Rogers summarized: "The Commission failed to satisfy the notice and comment requirements of the Administrative Procedure Act ('APA') by redacting studies on which it relied in promulgating the rule and failed to provide a reasoned explanation for its choice of the extrapolation factor for measuring Access BPL emissions."

BRATS Hamfest Huge Success!

Sunday, July 19 saw beautiful bright sunshine; crisp temperatures in the low 80's and a generally gorgeous day at the Howard County Fairgrounds for the 2009 edition of the BRATS Maryland Hamfest and Computer Fest. Tailgaters plied their wares while buyers kept coming in. Thanks to all who worked so hard to help make this year's event one of the best yet! We look forward to the third Sunday in July next year!



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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

It was sad to read about the two hams who died, one fell off a tower and the other had his tower collapse beneath him. Obviously, the competition referred to in one of the articles was Field Day, not a competition to erect a tower! Be a careful ham, not a silent key! Thanks to all who helped at the hamfest and my apologies for messing up the meeting schedule!

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, 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 12/09:

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:

2009: August 13, September 17, October 13,

November 17, December 15. 2010: January 14,

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

NEXT MEETING: Thursday, August 13

Jim Mullin, W8KKK (SK), Falls Off Tower

Jim Mullin, W8KKK, of Mayfield Heights, Ohio, fell to his death from atop his 100 foot tower on June 6, reports Frank Fritz Hemrich, K8WLF. According to a post Hemrich made on QRZ.com, Mullin, 69, was in the process of dismantling a tower and antennas when his safety belt parted at one of the seams and just let go. Hemrich recounted that Mullin had already been up on the tower twice that day: It appears as if he was on his third trip up to re-position his gin pole to start taking apart and down the tower sections. His ground assistant had just finished taking some pictures of the tower and was putting his camera back in his car. As he turned away from the car he heard Jim hit the ground. A service for Mullin was held June 11.

Michigan Ham Dies in Field Day Tower Collapse

A Michigan ham has died following a tower collapse during antenna set-up on Field Day. According to news reports, Larry Prelog, KE4PM, of Niles was helping to erect a thirty-foot high tower for the Blossomland Amateur Radio Association on Saturday, June 27th. He had climbed the tower when it collapsed under him and throwing him to the ground. He was airlifted to the Borgess Medical Center in Kalamazoo where he succumbed to his injuries the following day. A professional radio technician by trade, Larry Perlog was most recently employed as a telecommunications specialist for Lakeland Regional Health Care System. Throughout his career performed many tower climbs and was considered as being one of the most safety conscious climbers in the business. A family member described him as being very meticulous about being safe. Larry Perlog, KE4PM, was age 57. [AR Newsline]

Niles man dies after falling from ham radio tower**Larry Prelog, KE4PM, Silent Key**

An experienced installer of ham radio equipment has died after a 60-foot-high radio tower he was scaling during an antenna-installation competition collapsed beneath him. Berrien County Sheriff Paul Bailey says 57-year-old Larry Prelog of Niles died Sunday, a day after falling during the event in Watervliet Township, about 60 miles south-southwest of Grand Rapids. Prelog and several others were competing to install antenna towers that receive amateur radio transmissions from around the world. Bailey tells The Herald-Palladium of St. Joseph such towers are stabilized with guy wires. It's not known why the structure that Prelog was climbing gave way. Prelog died at Borgess Medical Center in Kalamazoo.

Guide on lightning protection available for downloading

The Institute of Electrical and Electronics Engineers (IEEE) has released a new lightning protection guide: How To Protect Your House and Its Contents From Lightning: IEEE Guide for Surge Protection of Equipment Connected to AC Power and Communication Circuits By: Richard L. Cohen, Doug Dorr, James Funke, Chuck Jensen, and S. Frank Waterer. This is a 52 page illustrated guide written by the IEEE Surge Protection Device Committee. It covers lightning hazards, integration of the various components of a lightning protection system, AC and signal surge protectors, multi-port protectors for equipment connected to signal and power lines, and grounding methods. It is written in plain technical language, and is an excellent guide for all amateurs concerned about protecting their antennas, shack and homes from the effects of lightning. The guide is available at no cost as a 1.1 mb pdf file (61 pages) from the following URL: http://www.lightningsafety.com/nlsi_lhm/IEEE_Guide.pdf (Thanks to Ed Frazer, VE7EF)

**NEXT BRATS
MEETING**

Thursday, August 13,
7:15 PM
at the Pikesville
Library

Complimentary Wi-Fi Service

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

WRC-11 Is Now WRC-12

The ITU Council, the 46-nation administrative oversight body of the International Telecommunication Union (ITU), has agreed to move the next World Radiocommunication Conference (WRC) to 2012. Originally scheduled for October 24-November 18, 2011 in Geneva, Switzerland, the Council has proposed January 23-February 17 as the new dates. According to ARRL Technical Relations Manager Brennan Price, N4QX, the full ITU membership is now being consulted on the dates; responses are due by August 3. "The ITU Council had previously proposed dates for fall 2011, but various scheduling conflicts and the lack of available facilities during some weeks made this schedule impractical," he said.

US Airways to add in-flight Wi-Fi

US Airways is the latest carrier to say it will add in-flight Wi-Fi. The airline, which is adding Aircell's Gogo Inflight Internet service, initially will install the option on its Airbus A321 jets on "select domestic routes." US Airways has a map on its website showing those routes. "And later next year, customers will be able to see if Wi-Fi is available on a specific flight by looking for the Wi-Fi icon while booking their flight on usairways.com," the company says in a press release. US Airways says it will detail pricing for the Wi-Fi "closer to the launch date," but adds "customers will be able to choose service from Aircell's standard pricing structure, which currently ranges from \$5.95 to \$12.95, depending on the length of flight and type of Wi-Fi enabled device used." US Airways says Wi-Fi will be available "beginning in early 2010." Fliers with wireless devices will have access to the Web, instant messaging, email and VPNs.

In a Q&A on its in-flight Wi-Fi, US Airways notes that its A321 jets "are not equipped with power outlets. Aircell recommends bringing a back-up power source for your device. All Wi-Fi enabled devices will work with the Gogo Inflight Internet service including laptops, smartphones and PDAs such as BlackBerry Bold, iPhone and iTouch."

Continental installing live satellite TV on planes

Venturing where low-cost carriers have largely gone before, Continental (CAL) is now offering satellite TV, a move that could push its peers to follow suit at a time when competition is the fiercest it's been in years.

Since April, Continental has installed DirecTV (DTV) on 18 planes. By early 2011, the airline plans to have 77 channels of live TV available to passengers flying domestically on about 220 of its jetliners.

It joins JetBlue (JBLU), Virgin America, Delta and Frontier in offering passengers the chance to watch live sports, news and other programming on TV screens at their seats instead of programs taped earlier.

JetBlue and Virgin America offer the TV service for free. Frontier charges \$6 to all but premium-fare ticket holders and some members of its frequent-flier club. Continental is charging \$6 in coach and letting first-class passengers get the service free.

Fliers get advice on Internet etiquette

Now that it has become the first major airline to outfit its entire fleet with wireless Internet service, AirTran Airways is offering passengers a few do's and don't's. Tip #134. "The lavatory is not your personal conference room." The bathroom admonition is one of several included in the primer *Internetiquette: A Guide to Keeping Everyone In Line, While They're Online* that AirTran (AAI) will place in every seat pocket following its announcement Tuesday that the Internet is now accessible on each of its 136 planes. With the smaller Virgin America reaching that milestone in May, and Delta, American and United moving quickly toward making all their domestic flights Internet-ready, travelers have entered the era of sky-high Wi-Fi. Now that passengers can connect to meetings, check e-mail and surf the Web in-flight, travel and etiquette experts say it wouldn't hurt for the flying public to get some guidance on how to behave. "Any time we have a new way to spend time on an airplane ... it's a good idea to think about how it affects those around us," says Anna Post, an etiquette expert and spokeswoman for the Emily Post Institute. "14B is not your office. It's an airline seat. Treat it as such." In the midst of an economic downturn that has caused the airline industry to lose passengers and revenue, carriers view Wi-Fi as a perk that can help entice business fliers and others back on board. Delta, which merged with Northwest last year, has already outfitted 199 of its planes, with the rest of its domestic mainline aircraft scheduled to be Internet-ready by the end of this year. Northwest's fleet will be ready in the last six months of 2010. American, aiming to have Internet access on roughly 300 of its domestic aircraft, has equipped 70 so far and plans for the rest to be completed some time next year. "Over time, we think this will serve us very, very well," says Bob Fornaro, chairman and president of AirTran. He adds that with the Internetiquette guides, part of a broad advertising campaign spanning TV, radio and billboards, "we're trying to remind you in a fun way that you're not at home" when surfing the Web at 35,000 feet.

ARRL DX Bulletin

WA7BNM Contest Calendar

- Aug. 1
TARA Grid Dig Shindig
European HF Championship
- Aug. 1-2
10-10 Int 1 Summer Cont., SSB
North American QSO Party, CW
ARRL UHF Contest
- Aug. 2
SARL HF Phone Contest
- Aug. 8-9
WAE DX Contest, CW
- Aug. 15-16
SARTG WW RTTY Contest
ARRL 10 GHz and Up Contest
N. American QSO Party, SSB
- Aug. 15-17
New Jersey QSO Party
- Aug. 17
Run for the Bacon QRP Contest
- Aug. 22-23
Ohio QSO Party
- Aug. 29-30
YO HF DX Contest
SCC RTTY Championship
- Aug. 30
SARL HF CW Contest

(Thanks, Bruce, WA7BNM)

TIMOR-LESTE, 4W.

Chris is QRV as 4W6FR and has been active on 20 and 17 meters using either PSK and SSB after 0900z. QSL via VK4FW.

TAJIKISTAN, EY.

Rahim, EY7AD has been QRV on 20 meters SSB around 0130z. QSL to home call.

EAST KIRIBATI, T32.

Tovia, T32TV has been QRV from Christmas Island, IOTA OC-024, using SSB on 20 meters around 0600z. QSL via operator's instructions.

CHAGOS ISLAND, VQ9.

Larry, VQ9LA has been QRV on 20 meters around 0240z. QSL to home call.

TIMOR-LESTE, 4W.

Chris, 4W6FR, is QRV as time permits. Look for him on 20 and 17 meters using PSK. Most of his activity takes place between 0900 and 1300z. QSL via VK4FW, direct or the OQRS at <http://www.odxg.org>

SOUTH KOREA, HL.

Jerry, N4EO, will be QRV as HL9EO from Yongsan Barracks through mid-September as his work duties permit. Look for him on 20 meters and higher with a concentration on CW and PSK. QSL direct to N4EO.

FAROE ISLANDS, OY

Thomas, OY/OZ1AA is now QRV from OY6FRA in in Torshavn. He is on HF and 6 meters, using CW and SSB

Next BRATS Meeting

Thursday, August 13, 7:15 PM

Pikesville Library

IARU Region 3 ARDF Championships cancelled

The Eighth IARU Region 3 ARDF Championships, originally scheduled for 29 October to 3 November 2009 near Bangkok, Thailand, have been cancelled due to concerns for the safety and convenience of participants. This announcement was made on June 26 by JA1HQG, chair of the IARU Region 3 ARDF Committee. In his announcement, he added that there was insufficient time to make arrangements to hold the championships in another country of Region 3 this year. [RSGB]

500 kHz Experimenters in North America, Europe Get Active

In the 500 kHz Experiment quarterly report for the period ending May 2009, Experiment Coordinator Fritz Raab, W1FR, reported that since the experiment began in late 2006, 21 participating stations are currently active. The FCC's Office of Engineering and Technology granted the WD2XSH experimental license to the ARRL in September of that year. In this quarter, the FCC only issued one new experimental license for 500 kHz, WF2XAU to Roy Croston, AB4OM. The FCC renewed WD2XGI to Mike Reid, WE0H.

More countries get access of 7MHz frequencies

Belarus has gained access to the extended 40m band. In the 7.1 - 7.2MHz frequency range it is allowed to use SSB and CW with 500W max and, as always, up to 1kW in contests under a special authorisation. In the same decision of the State Commission for Radio Frequencies that was dated May 14 but just recently released, the 160m band has also been extended for Belarus amateurs. The frequencies accessible are now 1.810 to 2.000MHz. On 27 June, the French administration announced that 7.1 - 7.2MHz will be available to the amateur service. Unfortunately another signature is needed before publication.

Hamfests

Sunday, August 2 - Berryville, VA
Berryville (Winchester) Hamfest, Clarke County Ruritan
Fairgrounds, Berryville (146.82/R)

Sunday, August 16: Westminster, MD
Carroll County Tailgate Fest, Carroll County Agricultural
Center, Route 32, Steve, N3SB, n3sb@qis.net, (145.41/R)

Sept. 12-13: Virginia Beach, VA
Va. Beach Hamfest, VA. Wesleyan College 1584 Wesleyan
Drive, Va. Beach, VA 146.97/R, 757-484-0569;
w4cac@arrl.org

Sunday, October 4: W. Friendship, MD
CARAFest, Howard Co. Fairgrounds Rte 144 at Rte 32,
adjacent to I-70 147.135/r PL 156.7; 410-552-2652

Sunday, October 25: Westminster, MD
Mason Dixon Hamfest; Carroll County Ag. Center, Rte 32,
Westminster; 145.41/R 410-583-4321; n3sb@qis.net

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)

UTAH ATV

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

NEXT BRATS MEETING

Thursday, August 13, 7:15 PM
at the Pikesville Library. Most meetings are on 2nd or 3rd
Thursdays.

VE EXAMS

BARC VE EXAMS for 2009
at BARC Clubhouse 12360 Owings Mills Blvd. Owings Mills
Register: 1 PM, Exams begin 2 PM. Free (Laurel VEC)
Saturdays: 9/5, 11/7; Sundays: 7/5, 10/4 n3wke@arrl.net (Thanks,
N3YT)

2009 AERO VE EXAMS

Registration at 1 PM, Exams at 1:30.
Fee \$14 (ARRL VEC); All exams at White Marsh Library, 8133
Sandpiper Circle; 19 September 2009 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)

AUGUST BARC VE EXAM MOVES!

Note NEW DATE, NEW TIME

August 1 exam moved to
Saturday, August 8 at 9 AM!
Same place...

Free UK Callbook!

Download latest G3ZHI UK Callbook for free:
<http://www.qsl.net/g3zhi/cb1.html>

SILENT KEYS

Vernon S. Chapin, K3VC
July 10, 2009

Walter S. Cronkite, KB2GSD
July 17, 2009

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

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

FOR SALE: ICOM T2H 2 mtr HT with charger, belt clip, rubber ducky, manual, asking \$80. K3BCD, 410-866-5441 or 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

JADE COMPUTERS

1009 Ingleside Ave., Baltimore, MD 21228
443-677-4187; 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

Overlea Hobbies; Radio Consignments

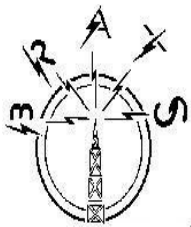
8411 Harford Rd. Parkville; 410-665-3622 fine trains, model kits, x-acto, cars, planes, ships, many radios: Yaesu FT-101ZD, Kenwood TS 820S, 930S, Heath SB-102, National NC 183, more. Dick, N3JWN, 410-488-2806

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

WANTED: AT-930 for a TS930S. Please send condition and price. Jerry. jerrymcf@sbcglobal.net

<p>ATTENTION: if you do NOT want your ad to run again, please send me an email and let me know. Thanks! w3gzk@verizon.net</p>

WANTED: Your ad for this space. Send copy to w3gzk@verizon.net



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August 2009

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)

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