

THE TARA NEWS

Affiliate of the American Radio Relay League

Volume 19

Will Hollingsworth Really

Retire in July?

Around May 20th, Special Counsel in the FCC Spectrum Enforcement Division Riley Hollingsworth announced plans to retire again from the FCC later this year. "My intention," Hollingsworth told the ARRL, "is to head out in July, assuming the results of the second round of the PAVE PAWS/440 repeater monitoring in California present no complications. It has been a privilege to work with and for the Amateur Radio licensees and the land mobile frequency coordinators. I am extremely fortunate to work for two wonderful groups of people: Those at headquarters in the Enforcement Bureau, and for the Amateur Radio operators." Hollingsworth had planned to retire earlier this year, but changed his mind, saying, "There [were] several issues on the table that I want[ed] to continue to work through with the amateur community."

SEE:

http://www.arrl.org/news/stories/2008/05/20/10106/?nc =1 **for more details.**





© Issue 05 June 2008 Special TARA

Election Bulliten

On Tuesday - June 17, 2008 - TARA will hold it's annual election of Officers/Directors for 2008/2009 at our monthly meeting starting at 7:00 PM. This is a very important meeting and each of you as an active member owe it to the club to come vote for those that you feel deserve your support. At the same time if you feel the club is heading in the wrong direction come express your concerns. The main thing is to let your voice be heard! Please keep in mind that your dues must be current in order to vote in the election. If you have any question about your dues status please contact Randy Stein, KL7TJZ as soon as possible.

This year we have the following positions up for election:

** All officer positions are <u>ONE</u> year Terms of office**

PRESIDENT V. PRESIDENT SECRETARY TREASURER

So Far we have the following that have tossed their hat into the ring:

OFFICERS:

PRESIDENT - Bill Eddy, NY2U - '08 / '09 V.PRESIDENT - Karen Smith, KS2O '08 / '09 SECRETARY - Marilyn Davis, KB2JZI '08 / '09 TREASURER - Howie Cummings, N2HIC '08 / '09 DIRECTORS:

1 YEAR SEAT '08 - '09 - Ken Smith, WA2TQK
2 YEAR SEAT '08 - '10 - Ken Davis, KB2KFV
2 YEAR SEAT '08 - '10 - Michael Styne, KC2JCJ
Nominations for "ANY" of the above
OFFICER/DIRECTOR seats are open. If you'd like
make a run for one of these positions please send your
request to me immediately.

Thank You,

"Mr. Bill" MUZU



We're a Family



Upcoming Public Service Events

On May 15th Albany sponsored it's annual GHI Corporate Challenge Run in Washington Park. There was close to 8000 runners and everything went very well!

Thanks to all my volunteers who helped with this run...we did great for so many runners...everyone was pleased!

RayN2ZQF	HowieN2HIC
ArtKN2JZJ	CraigW2XAD
BillKC2NXC	KenWA2TQK
LisaKC2OEA	RayN2VLY
PaulKC2PQT	MacKB2SPM
KarenKS2O	

On May 26th. we worked the Annual Watervliet Memorial Day Parade. It turned out to be a great day for a parade and hope everyone enjoyed it. Thanks to all who volunteered to help me with this event...

BethKC2BSC	MargaretN2PEK
RoyN2OWC	JoeKC2HLC
DaveNF2G	KenWA2TQK
TomN2SQO	MacKB2SPM
KarenKS2O	



Karen KS20 and Paul KC2QPT discuss the route at the Freihofer Run for Women.

30th Annual Freihofer's Run for Women



On May 31st, We volunteered to work the 30th Annual Freihofer's Run for Women in Albany's Washington Park. They had 3387 runners and great weather for a run!

Thanks to all who volunteered and got up extra early to sit in the park until race time! And a special thanks to the new volunteers who helped me that morning and hope they enjoyed it and will help out again!

Art....KB2JZJ Mac....KB2SPM
Tom....KC2FCR Jason....KC2NDG
Tom....KC2LBJ Howie....N2HIC
Bill....KC2NXC Tom....N2SQO
Mike....KC2JCJ Paul....K2QPT
Ken....WA2TQK Karen...KS2O

Thanks again for all your help and hope to see you all again in the Fall or again Next Year!

73's,

Karen - KS20

UPCOMING PUBLIC SERVICE EVENTS

DATE UNKNOWN

10-30-08 Thurs.10-31-08 Fri.

Arsenal City Run

Pumpkin Patrol

Watervliet, N.Y.

Rensselaer, Schenectady and Albany Co's.

We Must Be Doing Something Right!!

Howdy Folks,

Below you will see a message I received the other evening from somebody that's been listening to the TARA repeaters for quite some time now. I was so elated to receive this message and as you might imagine I was extremely proud too! You know from time-to-time we hear a few that want to knock TARA and its members and I think these folks ought to read this letter below very carefully. Evidentially, all of us in this TARA family must be doing something right to make a person write such a letter before they leave town. So, my friends, feel proud as you should. This is one FANTASTIC club and we do a LOT of good. Yes, from time-to-time we might loose sight of exactly how good this club is but when you read such words from someone on the outside it sure changes your mind quickly. I hope ALL of you have a chance to meet "TJ"- K2TJJ when Field Day comes around. You just might mention how much you appreciate his letter too.

73 de,

"Mr. Bill" NYZU

Hey Mr Bill,

It's been a while since we last spoke but, I wanted to check in and say Hi. Things have been very busy with my job and has not allowed much time for being on the radio. My position with my company has recently changed and I will be relocating to North Carolina. Although this was somewhat expected and my wife and I are looking forward to our new adventure it does make me a little sad to be leaving my amateur radio friends at TARA. I say friends knowing that most of the TARA members don't really know who I am, but I know who they are. I have spent countless hours listening to the TARA repeater while doing work both at home and on the road (via the audio stream)

often falling asleep as the chatter went on. Listening to those conversations taught me more than those conversing will ever know. They encouraged me to look into and explore aspects of this hobby that I never knew existed. They motivated me to upgrade so that I could dive in even further and more so ingrain into myself a passion for being a ham so deep that it is now impossible to extinguish. These men and women mentored and moved me, most without even ever speaking to me directly. Unfortunately because of being on the road most of the time with work I was only able to attend one TARA meeting. I regret not being able to get to know personally all of the folks involved with TARA but still hope that through this great hobby of ours we can still keep in contact. Earlier this year things starting to pick up for me with my amateur radio, and I have been looking forward to the 08 field day. I was hoping that a rookie like me would be able to learn a lot from the group. My moving plans have me here until mid July so I was hoping to attend if that's O.K.? I also figured, what a send off! If its not to late, can you put me down for the Prime Rib and I will have a check in the mail to you tomorrow. I would also like to enclose my membership app. as well. Its been sitting here for awhile waiting for the time that I could make a meeting. I know it may not make sense to most people to be in the club living so far away but I feel that I have gotten so much, and besides this will always be home. Who knows maybe I will hold the record for the furthest member:)

Thanks again for all the good that TARA does, and for keeping this hobby great!

73,

79 Jeune K2TJJ

TARA "T.N.T." TRADER NET

Every Thursday Night at 9:00 PM

ECHOLINK

RIIII & RIIIII & RIIII & RIIIII & RIIIII & RIIII & RIIIII & RIIII & RIIII & RIIII & RIIII & RIIII &

Buy Swap Sell

Buy Swap Sell

On the 145.170/447.075 Repeater

WSPR QSO Completed

Found In QRZ.com

WSPR is a new digital mode that hams have been experimenting with on HF and VHF bands over the last few months. Joe Taylor K1JT has been the driving force behind this weak signal development.

WSJT is capable of extremely weak signal detection way below the noise floor due to its use of very robust Forward Error Correction techniques.

Stations previously have been operating using beacon like transmissions to test the capabilities of the mode using very low power often way less than 1 Watt.

On May 6 2008 the first two way QSO was made using WSPR between K1JT and W6CQZ on 30meters using simple antennas and 1Watt TX power.

Take a look at this link if interested in that QSO and what might be to come in future releases of WSJT:

http://groups.yahoo.com/group/wsjtgroup/message/4799

If you are interested in experimenting with this mode you can download the free software at:

http://www.physics.princeton.edu/pulsar/K1JT/index.htm

I think that a lot of very interesting experimentation is going on and we are going to continue to hear about breakthrough uses of this technology. Thanks to K1JT and others for all their hard work.

By WB3BEL



New Russian Satellite in Orbit

A Russian rocket launched from Plesetsk on May 23 carried a number of payloads to orbit, including a new Amateur Radio satellite named Yubileiny -- Russian for jubilee -- since christened Radio Sputnik 30 (RS-30).

Operational details are vague at this time. Amateurs throughout the world report receiving signals at 435.315 and 435.215 MHz; some report reception of CW telemetry while others report what appear to be image transmissions from the satellite. RS-30 is orbiting at a maximum altitude of 1500 km, creating a substantial communications footprint below.

The satellite will broadcast audio and video about the history of the Soviet and Russian space programs, as well as signals imitating those broadcast by Sputnik in 1957.

According to the satellite's launch team, "The motive for development of the Yubileiny small spacecraft was the 50th anniversary of the first space satellite. With the help of that satellite, the new space systems and equipment are expected to get flight qualification, and radio-amateurs all over the world will be able to receive information on the history of space development and domestic cosmonautics achievements."

Lightning Protection

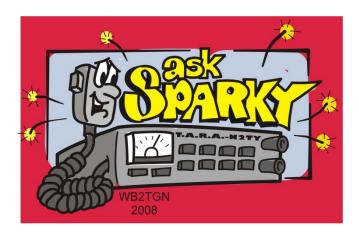
While browsing the internet for lightning protection and the facts, I figured that we were in the season for these types of events and the following might be of interest. This is the link that might be of interest to our fellow amateurs.

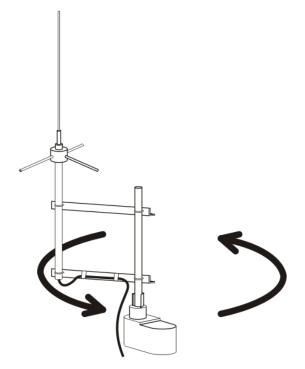
http://www.lightningsafety.com/nlsi lhm/IEEE Guide.pdf

The bottom line is to provide a better path to ground to protect your electronic systems or electrical distribution systems, especially your Ham Shack or your Home Entertainment System.

Paul KC2QPT







Did you ever park your vehicle while talking on your 2-meter radio and find yourself in a phasing null? If so, you know to remedy the situation all you have to do is move the vehicle a foot one way or the other and Bingo, you can be heard again. In a sense, what you are doing is moving the antenna to a spot outside of the phasing null. Let's take this situation one step further. Let's say you put up an antenna on your house hoping that this new antenna is going to put your signal into that distant repeater in fine shape. You get the antenna all bolted to the side of the house, you run the coax, plug it in the back of your rig, turn it on and you start getting crummy reports from that distant repeater that all your friends are on. Well guess what, you just put your antenna in a phasing null.

Well, I was listening to an informative conversation one night about that very subject. This guy was saying that he has his Omni-directional antenna mounted on a rotor. I had a hard time understanding why anyone would do such a thing. It was explained that he uses many different distant repeaters and each one is not easy to get into. If he was to move his antenna one way or the other, he would find that "Sweet Spot" where the signal is greatly improved into the repeater just by moving the antenna one way or the other. Just like moving your vehicle one way or the other.

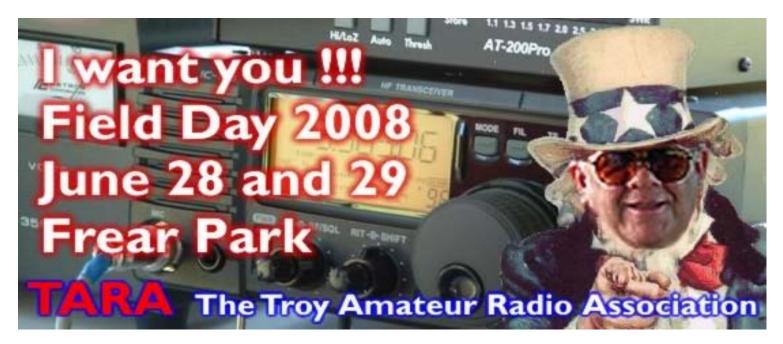
He explained in great detail what his set-up was. Instead of me trying to think of his description of the set-up, I'll just draw a picture of how I envisioned the pieces and parts as he described them.

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He said that the length of the cross arms (angle iron) were roughly 3 feet long, thus giving him roughly six-feet diameter of antenna swing. I don't know this for a fact, but it seems to me if one had a beam on the same mast, one might want the cross arms to point the same direction the beams are pointing. However that is just my guess.

I hope this gives the reader a new look at Omni-directional antenna installation. I found this information to be interesting and I felt compelled to share it.

Dave Leavenworth - WB279N



FCC Looks to Raise Vanity Call Sign Fees

ARRL Headquarters, Newington, CT

May 9, 2008

The FCC released a Notice of Proposed Rulemaking and Order (NPRM) on May 8 seeking to raise fees for Amateur Radio vanity call signs. Currently, a vanity call sign costs \$11.70 and is good for 10 years; the new fee, if the FCC plan goes through, will go up to \$12.30 for 10 years, an increase of \$.60.

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 term. Instructions on how to comment on this NPRM are available on the FCC Web site at, http://www.fcc.gov/cgb/consumerfacts/howtocomment.htm 1

The vanity call sign fee has fluctuated over the 12 years of the current program -- from a low of \$12 to a high of \$50; the current fee of \$11.70 is the lowest the fee has been since the inception of the vanity call sign program. The FCC said it anticipates some 15,000 Amateur Radio vanity call sign "payment units" or applications during the next fiscal year, collecting \$184,500 in fees from the 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 term. The first vanity call sign licenses issued under the current Amateur Radio vanity call sign program that began in 1996 came up for renewal two years ago. Those holding vanity call signs issued prior to 1996 are exempt from having to pay the vanity call sign regulatory fee at renewal, however. That's because Congress did not authorize the FCC to collect regulatory fees until 1993. Such "heritage" vanity call sign holders do not appear as vanity licensees in the FCC.

Amateur Radio licensees may file for renewal only within 90 days of their license expiration date. All radio amateurs must have an FCC Registration Number (FRN) before filing any application with the Commission. Applicants can obtain an FRN by going to the ULS site at, http://wireless.fcc.gov/uls, and clicking on the "New Users Register" link. You must supply your Social Security Number to obtain an FRN.

Good News for Six Meters

I engineer for a TV Station, and with the turn-off of the analog transmitters, next Feb 17, it occured to me that this may be the greatest boost ever to six meters.

Six meter audio won't be detected. There will still be overload issues, but the sets won't be able to detect AM, SSB, or CW. The sets will just mute or freeze. Detecting "who" is creating the overload will be much harder.

Another factor is the outside antenna that has (up to now) been banned by various homeowner associations.

Good six meter antennas can be built to resemble VHF TV antennas and with more non-hams demanding good outside antennas to pick up DTV, now seems to be a good time for some manufacturer to build a "look-alike" six meter "stealth" antenna.

This could open the door to many amateurs who might not have the space for a low band antenna, but COULD be on six meters.

Quoting from the WAAY-TV web page : Right To Bear Antennas Regardless of Homeowners Regulations

Posted: May 30, 2008 10:17 AM CDT The FCC gives TV viewers a right to put up an outside antenna regardless of what their homeowner regulations or neighborhood regulations are.

In this new era of digital TV, some TV viewers are going to want to add outdoor antennas but be harassed by restrictions set forth by their community, which of course, the FCC overrules.

If someone calls complaining of not being able to put up an antenna, please point them to this web site for more information:

http://www.fcc.gov/mb/facts/otard.html>

Don WA4NPL



Tech Talk

Q. Three times—once each with three different flash drives, and on six different PCs—I've had the experience of finding that the computer won't recognize the drive, and the data on the drive has become inaccessible. I see this is a common problem. Other users ask for advice on the Web, and nobody seems able to offer any solid information on this occurrence. In none of my incidents has the flash drive been dropped, heated, frozen, or dropped into a liquid or run through a strong magnetic field. One day they work; next day they don't. Anybody know why or what could be causing this issue? And whether my data is permanently lost in such cases? Three times, three different flash drives can't be a coincidence! Please help! Thank you Submitted by: Paul L.

After going through all of our members' answers to Paul's question, I noticed that the majority of them pointed out a common mistake that people make that can cause flash drives to fail - not disengaging the flash drives properly, by using the Windows "Safely remove hardware" process in the Windows task bar. Removing flash drives or other storage devices without using this feature can very possibly cause drives to fail, especially if something in the background is writing to it. I hope this isn't the case for you, but it's definitely worth bringing up.

While this week there were a lot incredibly helpful suggestions from our members, including personal experiences of having a faulty drive and suggestions on troubleshooting the issue, one particular post by member herman56z got me really thinking about your issue. What if your problem stems from a physical fault rather than a software-related issue? Hear me out. What if one of your six PCs has a physically damaged USB port, so whenever you plug one of your flash drives into this particular port, it causes physical damage to the flash drive connector--misaligning your flash drive connector pins or even possibly breaking the metal connection completely off? And in this case, you've used that particular damaged port with all three of your flash drives, physically damaging all the connectors on those drives and causing all three drives to be unrecognized in three different computers. I know this is a shot in dark, as it is with all troubleshooting suggestions, but it may be worth investigating.

I'm going to stop here, as there is plenty of great advice from our members, and with so many possible scenarios that can cause flash drive issues, I'm hoping the advice here will help you get a good start toward solving yours. To start you off, here are a few great thoughts from our members. But, there are plenty more, so please read them all. And Paul, if you get a chance, please swing by the discussion thread and tell us what worked for you. Good luck, and please continue the discussion! Thank you, everyone, for your contribution to this community topic!

(Note: From my personal experience, flash drives are usually very reliable for me, I have at least a half dozen of them that I use to transfer files around. However, as reliable as they are, I never depend solely on them to be my means of backing up data. Even if I did, I would always have additional media to back that data up--because anything can go wrong, and everything will fail eventually. So please, if you do back up your important data on your flash drives, make sure you have an additional source to back up that data, just in case that drive fails on you.)

Cheers!

Lee Koo Manager, CNET community

External Radio Noise Sources

Radio receivers tuned to any frequency used for communication are subject to interference from one of more of the following external noise sources:

- 1) man-made interference from electrical and electronic devices of many kinds
- 2) terrestrial atmospheric noise from lightning storms
- 3) cosmic radiation from space.

Desired signals must be significantly stronger than the sum of those noises to be clearly understandable. Man-made noise often can be filtered at its source or a receiving antenna can be physically separated from a noise source. Where man-made noise has been reduced to insignificance, cosmic noise tends to predominate above 15 MHz and terrestrial noise tends to predominate below that frequency. Both terrestrial and cosmic noise can be minimized by using directional receiving antennas. However, antennas with narrow beam-widths are huge in size at low frequencies which limits their practicality in many applications.

Rensselaer County ARES/RACES Meeting on July 17, 2008



Our Chief Radio Officer Tom Stewart wanted to let everyone know that this month's meeting has been cancelled. Our next scheduled meeting will be on July 17 At 7:00 PM.

Since there are presently no designated Net Controls, anyone that happens to be on frequency on Thursdays at 7:30 PM is more than welcome to call up the NET to see what type of response we get. The purpose for this is to at least try to keep our Net active.

Tom stated that he totally understands that people are very busy with graduation parties and other functions during this time of year. Tom also wanted to remind everyone that it doesn't matter what or where you go for Field Day 08' but go somewhere. It is our one big date of the year for Emergency Response Simulation. So just go somewhere and get involved.

Homebrewing The Pixie II QRP Transceiver from Scratch By: Mike Styne - KC2JCJ



So far, I've laid out all the parts I'll need to build a Pixie II ORP transceiver for 40 meters. Right now I'm missing some inductors, the 40m crystal (sort of important) and some connectors. I'm going to pick those up at Trojan Electronics tomorrow -- where I probably should have gone in the first place instead of Radio Shack.

The one thing I'm not sure how I'm going to handle is a PCB -- this is sort of where the benefit of a kit kicks in. Anyone have any suggestions? I saw some PC boards at Radio Shack, but I don't really see how those are supposed to work... this construction business is a brand new endeavor for me.

My trip to Trojan Electronics was mostly a success. I have managed to get:

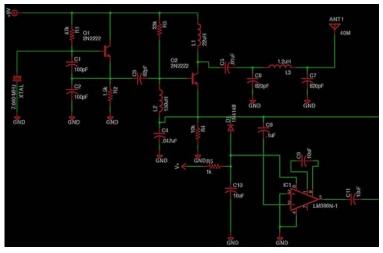
82pf / 820pf capacitors $1.5K\Omega$ resistors

22μH / 1.0μH 'molded inductors' (apparently, more commonly known as chokes)

The 1.0µH choke is really supposed to be 1.2µH. I'm not sure if this will cause a problem -- I see some parts lists that say 1.0μH is A-OK.

The only thing missing was the XTAL -- and the board to mount the parts on. I'm more and more considering rolling my own PCB. If I'm going to go in, I might as well go head first, right? I think we will be doing the board by a transfer method.

The XTAL problem was resolved when Karen – KS20 donated two Tuna Can 40 meter Kits one which was partially done and one which hadn't been started. That solved my source for having to having to order a Crystal.



Here's a schematic I put together of the Pixie II circuit to help teach myself **EAGLE**. The Pixie II is without question a simple design, however it uses a bunch of common components that made it a good project to use to learn the software.

EAGLE has a somewhat steep (more like... esoteric) learning curve. It wasn't too hard to figure out though. I'm sure there's probably something wrong or super weird for this schematic, but to my untrained eyes, it looks great!

Increase your BROWSER to at least 200% to view the **Schematic**



My trip to **Trojan Electronics for** parts was mostly a success

I learned one thing about Trojan, that they had a lot of neat stuff if you were a kit builder.

Everything is ready to go now. We have our parts list. We have all of the parts. We have our schematic diagram. We have a blank PC board ready to be etched. Now my dillema is do I work on the PC Board first or do I tinker around and finish off one of Karen's Tuna can 40 meter Radio's and get it working just to build up my confidence.

Until Next Month.....



Announcing the
ARRL New England Division
Convention
at the
Holiday Inn Boxboro Woods
in
Boxborough, MA

The 2008 edition of the ARRL New England Division Convention, fondly known as Boxboro, will be held August 22 - 24, 2008. Mark your calendars now and plan to attend!

A great program is being planned. We are pleased to announce that the ARRL First Vice President Kay Craigie, N3KN will be in attendance. Here is your opportunity to meetKay first hand at the ARRL Forums. She will be our guest of honor and keynote speaker at the Saturday evening banquet. Order your banquet tickets early as the seating is limited!

We are also pleased to announce the return of QCWA President, John Johnston W3BE. John brings his 27 years of regulatory work with the FCC to bear in his ever popular talk "What the Rules Say".

The EMCOMM folks have been hard at work putting together a great line up with the support of the ARRL Emergency Preparedness and Response Manager, Dennis Dura K2DCD, Deputy Chief Army MARS Jim Griffin AAA9B and Chief of Army MARS Operations, Grant Hays AAA9O. We welcome their attendance.

The Special Event station W1A will be in operation. This is a good opportunity to operate the top shelf amateur radio equipment the industry has to offer and have fun while doing it!

Wouff Hong is back! We are glad to have them and you are not going to believe who they have tapped for the "Old Man". This is a must attend event!

The "Call for Presenters" remains open. Please contact WO1N if you have an Amateur Radio related presentation or represent an organization that would like to reach out to a large population of active Hams.

New to our committee this year is Prize Chairman, Mike Crestohl, W1RC. He's already lined up the new Elecraft K3 for the top prize for some lucky ham.

Flea Market pricing has been restructured with the goal of improving the Sunday turnout. Volunteers are also welcome to help with event planning and execution.

The latest updates, online ticketing and general information can be found at http://www.boxboro.org

The Boxboro Holiday Inn, located at the junction of Routes 111 and 495 in Massachusetts, will again open its doors to the Amateur Radio community with its spacious parking and comfortable accommodations. Hotel information is available through the Boxboro.org website. Room rates are reduced for this year, be sure to ask for the "Boxboro Ham Radio Convention Rate" when making your reservations.

We hope to see you there!

Mike Raisbeck, K1TWF Convention Chair K1TWF@arrl.org Ken Caruso, WO1N Program Chair WO1N@arrl.net (978) 663-3027 (h) (978) 952-5377 (w) M ike Crestohl, W1RC Prize Chair W1RC@boxboro.org







<u>CLUB OFFICERS – 1 YEAR TERM</u>
President: Bill Eddy, NY2U273-9248
Vice President: Karen Smith, KS2O273-6594
Secretary: Marilyn Davis, KB2JZI272-0112
Treasurer: Randy Stein, KL7TJZUnlisted
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Ken Davis, KB2KFV(06-08)272-0112
Mac Smith, KB2SPM(06-08)273-6594
Roy Warner N2OWC(07-09)283-8485
Steve VanSickle WB2HPR(07-09). 461-2354
Ken Smith WA2TQK(07-08)233-7055
REPEATER MANAGER:
Roy Warner, N2OWC
Asst Manager
William "Doc" Kelley, KC2JDW235 -5063
REPEATER TECHNICAL ADVISORS:
DI (III MALID (O. M. I. M.

REPEATER TECHNICAL ADVISORS:
Robert Isby, N2LUD (Our Main Man)
John Pritt, N1JP
MEMBERSHIP COMMITTEE: NEW
Membership Manager & Greeting Chairman
Craig "SHREK" Wood -W2XAD370-5224
REFRESHMENT COMMITTEE:
Karen Smith, KS2O273-6594
NOTICE, THE EDITOR AND CTAFF OF T

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TARA WE	BMASTER	S:
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Karen Smith, KS2O...... 273-6594

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Troy Amateur Radio Association, Inc.

P.O. Box 1292 **Troy, New York, 12181-1292**



Visit us on the Internet At http://www.n2ty.org/

Regular monthly Meeting **Tuesday, June 17, 2008** 7:00 p.m.

Green Island Municipal Center

Intersection of George St. & Hudson Ave. Green Island, New York **Ample Parking** Parking Lot on Hudson Ave.

Joe Pasquini Steve VanSickle Cartoonist: Dave Leavenworth PLEASE SEND ELECTRONIC **CORRESPONDENCE TO E-MAIL** KB2KFV@aol.com or KB2JZI@aol.com or www: http://www.n2ty.org/

Troy's Full Service Repeaters 145.170/R 447.075/R

N2TY-" N2TY-"TROY" NODE

Mike Styne KC2JCJ... 518-330-7592

ATVET (ALB/TROY) VE TEAM: Gerry Murray WA2IWW...482-8700

FIELD DAY 2008 CHAIRMEN: Bill Eddy, NY2U...... 273-9248 Steve Kopecky, KF2WA 674-4150 Karen Smith, KS2O...... 273-6594 Ken Smith, WA2TQK......233-7055 VHF/UHF EQUIP. CHAIRMAN Hollins Meaux, N2YQW...465-7678

N2NOU

WB2HPR

WB2TGN

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Columnists:

Russ Greenman - WB2LXC

DEPARTMENT:

N2TY-BBS SYSOP: