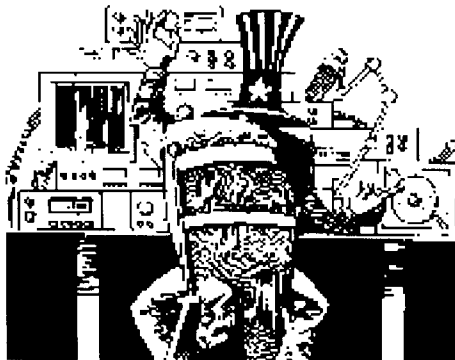


# Troy Amateur Radio Association, Inc.



# TARA



# NEWS

July 1995

## August Meeting

Our next monthly meeting will be held on Tuesday August 15, 1995, at the Green Island Municipal Center in Green Island (corner of George St. & Hudson Avenue), starting at 7:30PM.

At this time we still do not have a guest speaker for the evening. If someone would like to address the club on a particular topic please contact Kenny Davis, KB2KFV, at 272-0112.

## Kopecky Guides TARA

Steve Kopecky, KF2WA, has just completed his second straight year as TARA's Field Day Chairman. Kopecky and his TARA-ists, hit the air waves starting at 2:00PM on Saturday June 24, 1995 celebrating the ARRL Annual Field Day exercise. TARA set up operations in Frear Park, operating the full 24 hours of this simulated emergency. This is the largest drill of its kind in the United States. For further information about TARA's Field Day '95 read the interesting stories inside this issue.

## Jack Culliton Presented Award

Jack Culliton, N2LBZ, was presented the annual Thomas M. Remmert Achievement Award at the 1995 Field Day dinner. After having the results hermetically sealed in a mayonaise jar for over a month, TARA's very own Bubba opened the jar and announced the winner. Although Field Day contacts were running hot and heavy, all operations stopped for this important presentation.

Jack, presently the treasurer of the Troy Amateur Radio Association has also served several terms as vice-president. Jack also managed to serve as the editor of our TARA NEWS, having recently given up this position. For the past two years, the newsletter won awards in national competition due to Jack's efforts. (Only he could get his lovely wife Ellen to correct our grammar!!)

In addition to the aforementioned duties, Jack also serves as a volunteer examiner and has the job of getting our president to the VE sessions (and TARA meetings) stopped by neither rain nor snow nor dark of night.

Jack lives in Troy with his wife Ellen, his son T.J. and daughter Tara. Now if a guy names his kid "Tara" he deserves the award!! We look forward to benefiting from many more years of Jack's contributions to our club.

From all of us, Congratulation Jack!!!

### Inside This Issue:

### Special Field Day '95 Edition

Field Day Memories .....2	FD '95 Supporters.....4	Build A Bugcatcher.....7	TARA Net News.....10	DX'ing.....13
Media Success.....3	Window Warfare.....5	N2LBR on Code.....8	Club News.....11	Top Ten List .....14
Hollywood Jerry.....3	Computer Tip.....6	Hooray for Hollywood.9	W1AW Celerbration.. 11	Advertisers.....15
Bubba Report.....4	ATV/SSTV Today.....6	Repeater Beat.....10	VE Schedule.....12	TNT Swap Shop.....16

145.17 MHz

"Home of the FULL SERVICE Repeaters"

444.225 MHz

# Field Day Memories

*If you missed Field Day '95, you missed a lot!*

Well, we did it! And we do mean WE. What an effort by a GROUP of people to get our Field Day up, running, taken down and put away. A great job was done by all, especially our Field Day chairman, Steve, KF2WA. It's great to see everyone involved in all the different aspects of Field Day. The tent was a big hit. It kept that hot sun off everyone. (Bubba was the only one there with a red neck!!)

The food was a four star feast all the way. TARA might not have the most Field Day points but I'm sure we had the most Field Day Calories!! TARA's smorgasbord included such tempting dishes as, Rudy's (N2JZK) home made chili, June's (KA2VEK) spaghetti & meatballs, hamburgers, hot dogs, hot sausage torpedoes, fried chicken, and submarine sandwiches just to name a few. Oh yeah, what kind of Field Day would it be without some real brain food, pizza!!

We want to thank the Troy Parks and Recreation Department for their continued hospitality and for letting us have hazardous materials (Rudy's chili) at the park.

For those of you who missed it, we operated 3A-emergency power. This was our first year operating as KB2UGD (Kilo Bravo Two Ugly Green Duck). We had stations primarily on 20, 40 and 80 meters. The 20 meter operation was down a little this year, so we may need to work a little on hoisting and aiming our big gun 20 meter beam. The beam on 40 worked well. We also had a novice station making contacts on

10 meters plus an array of VHF equipment and a packet station.

A big pat on the back to Walt, WA1KKM for making a satellite contact on RS-13 (2 meter uplink and 10 meter downlink). This was a CW contact. Great job Walt!

A compilation of our computer logs shows a preliminary point total of 3,930 with 1,325 QSO's and 1,290 bonus points. This was almost as good point wise as last year. The solar flux was near the bottom, so scores are probably going to be down across the country.

We gained bonus points for public place, information booth, W1AW message, a message to the SEC (any bonus for feeding him too?), and for publicity in the local papers and television stations. Our public relations chairman, Ken, KB2KFV deserves a big pat on the back for getting out the media. However, we really need to find someone to talk the television stations. This year WTEN, channel 10 talked to Bubba (at least he didn't say "y'all" on TV) and WRGB, channel 6 spoke with Mr. Bill, NY2U. At least from looking at these guys, the public knows we, at TARA, don't go hungry!! We spoke with some people who attended the other area Field Days. Reports are that both Albany and Schenectady put on fine operations. We didn't have any first hand reports from the Rippers, but Bubba did speak to someone operating as WD2K. When asked if "Dave" was available, the operators didn't know anyone named Dave!

Remember that the real reason behind Field Day is to have an

emergency operations exercise and to gain experience in setting up stations in the field and to operate under whatever conditions the weatherman sees fit to throw at us. The ARRL has also added a contest to the event to spur interest. Some clubs see Field Day as a big contest. Here, at TARA, we see it as a way to eat great food, have fun, eat great food, meet new and old friends, eat great food, operate a bunch of radios, eat great food, stay up all night, eat great food and just plain enjoy ourselves. Did I mention the food?

I committed the cardinal sin of mentioning a few people above. If I didn't mention the great effort that you, in particular, made at Field Day, please forgive me. EVERYONE made a great effort at Field Day. We couldn't do it without YOU!

One final note of importance, the annual Thomas M. Remmert Achievement Award was presented to Jack Culliton, N2LBZ, a most deserving recipient. The award was presented by Bubba, himself, just prior to our spaghetti dinner. Great job Jack and congratulations from us all!!

Field Day in particular, and our club in general, are what the people make it. Let us never forget that our club is for the members and not for some contest or to have a repeater or whatever. Our people are the most important part of our club, and that's the reputation that we are proud of. Till next June, 73's de KB2UGD (I'm green but I'm not all that ugly!)

## Kopecky Endures Another Field Day

This marks the second TARA Field Day that Steve Kopecky, KF2WA, has successfully spear headed. For those of you that were indoctrinated this year, you now know first hand what a tremendous undertaking it is, one which takes many months of planning. On the over all Steve faired pretty dam well against all obstacles again this year. However he did go a few bouts with 'Old Man Murphy' over the antenna system. Our club is deeply grateful not only for Steve's guidance and leadership he exhibits, but for never scarifying fun or friendships for a few lousy points! Congratulations Steve for a first class job!!

# Field Day '95 Media Success!



Times Union/Stephen Weaver  
Steve Watson, N2PZP, and Dennis Bulger, N2USN ready the Field Day antennas.

## Hollywood Jerry?

In the Thursday, July 6th, issue of the *Times Union* the title under the picture (picture below) read: "Ham operator's words hang on each orbit." The article was written by staff writer, Bruce A. Scruton and it featured an interview with one of TARA's more knowledgeable satellite enthusiasts, Jerry Murray, WA2IWW. This article thoroughly portrayed, in laymen's terms, today's high tech radio operators and their capabilities of contacting space shuttles in outer space. For Jerry, contacting the shuttle is serious business. He made his first contact with the space shuttle on mission 58, back in October 1993, then again in April 1994.

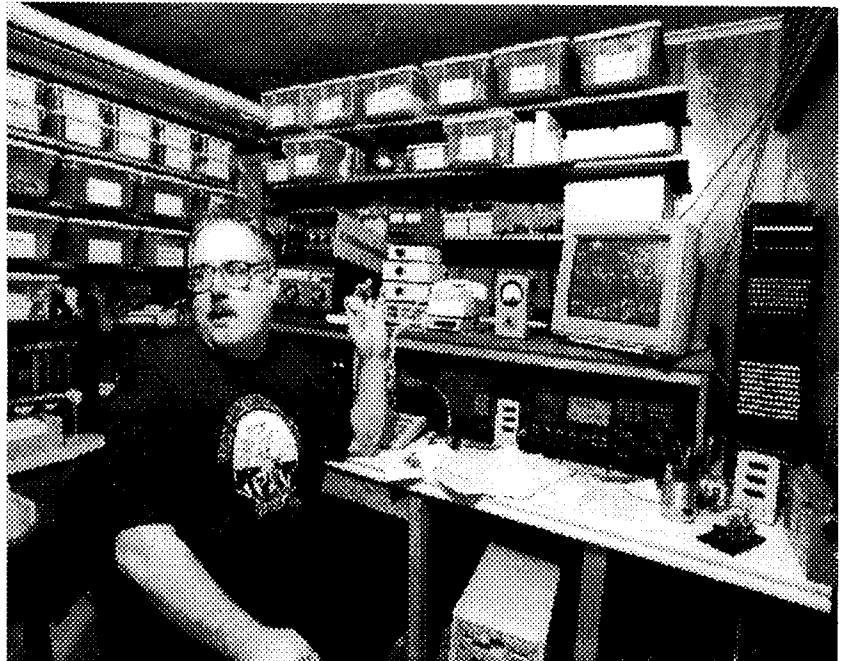
During the interview Jerry had the opportunity to demonstrate just how difficult it is to make a two way contact in outer space. Murray further explained how operators today use modern computer software for plotting the shuttle flights, in combination with very sophisticated radios.

If anyone would like to read the article in its entirety, please contact June, KA2VEK, at our next meeting. This article was made possible by the assistance of Tim, N2WJG. Thank you!

*Pictured Right: Jerry Murray, WA2IWW, at his Mission Control Center*

Photo By: Times Union/James Goolsby

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Thanks to some pretty impressive public relations work, TARA was able to attract the local media to Frear Park for Field Day '95. On Saturday, June 24th reporters and photographers from the *Gazette*, *Times Union* and Channel 10 - WTEN were all on hand covering TARA's Field Day excitement.

The first interview with the *Gazette's* Reporter, Lee Coleman was handled by Tom, N2TTA, and Bill, NY2U. Excerpts from this interview, along with a great photograph of Sara Carney, N2WUA, Dave Pascale, WB2HKR, and George Smith, N2YXC, appeared in Sunday's *Gazette*.

The next interview of the day included Channel 10 News. This was also handled by Tom, N2TTA, and it made the 6 and 11:00 PM news. This had some interesting camera shots of the Field Day crew in action and portions of Tom's interview.

On Sunday the media returned with Channel 6 WRGB making an appearance at our Frear Park location. This interview was handled by Mr. Bill, NY2U, and made the 6:00 PM Sunday News. All in all, TARA fared quite well this year thanks in large to Kenny, KB2KFV, and Steve, KF2WA.

# THE BUBBA REPORT - July/August 1995

Written By: Thomas "Bubba" Remmert, N2TTA

I sure enjoyed seeing old friends and meeting new friends at this year's Field Day in Frear Park. Now I just have to keep the faces, names and calls straight. Plans are for another trip in September, then, of course, the trip for the annual "Royal Rumble" with the Rippers.

I checked with the good ole' boys at the Sumter ARA and found out that they had a rather successful Field Day. I don't have the final score yet, but I'll pass it on next month. Sumter ARA operated K4NOC in class 2A-emergency power. They held Field Day at the local high school football field. Last year we looked longingly at the big light towers on both sides of the field. We also had fun with the home made potato gun provided by Tom.

KC4ZTC. Well this year, they decided to try to use the potato gun to launch lines over the light towers to pull up ropes for wire antennas. Reports are that Tom's first shot was a bull's eye, but the second tower sent a few potatoes to their untimely demise before the line was in place. Maybe this is something we can use at Frear Park. There are some "big ole trees" on the other side of that ravine from our site.

The Sumter ARA annual hamfest is coming up in late October, so if anyone is planning to head South around then, let me know. I'm gonna be in charge of unloading and then loading the vendors. Guess we'll have to rent a "big ole trailer" for the Jeep when it's time to load. We're hoping to have our non-profit status approved by

the IRS in time to get charitable postage rates for the hamfest mailing. So far, we had one glitch with a missing signature on the IRS form.

Well, the Bubba Loop is up and working fine, however, recent thunderstorms took down corners of my TARA Skywave loop on consecutive days. In both cases the bungee cord high up in the tree gave way. This lead to a redesign where the bungee cord is now used at the bottom of the tree to fasten the rope to a hook in the tree. Should the bungee cord break, there is a safety rope that will let quite a bit of slack into the antenna, but it will make repairs easier. The downside to this is that the rope will eventually fray as it moves back and forth over the tree limb. Oh well, nothing's perfect.

## Field Day '95 Supporters

This year TARA was able to raise more than \$1,300 in donations, for Field Day '95. This amount is up drastically from the years prior and we owe a hearty thanks to a lot of good people that were willing to help our organization. We had donations that ranged any where from \$500.00, right down to \$5.00. The donations came from Banking Institutions as well as private individuals. The end result of all this, another TARA success story.

We ask each of you during the upcoming year to return the favor and help support the following businesses that made our Field Day possible. Please take a moment while shopping at the following businesses to personally say THANKS!

- |                                       |   |
|---------------------------------------|---|
| ♦ Tri City Rentals                    | ♦ Tony's Sycaway Sub Shop               |
| ♦ Prediger's Bakery                   | ♦ Popeye's Chicken (Troy)               |
| ♦ CVS/pharmacies (Troy, Lansingburgh) | ♦ Pizza Hut Restaurant (Troy)           |
| ♦ Troy Pork Store                     | ♦ A. Delollo & Son Hardware, Inc.       |
| ♦ Cooper Enterprises                  | ♦ Geno's Italian Sausage                |
| ♦ Troy Savings Bank                   | ♦ Bella Napoli Bakery (Troy)            |
| ♦ Fleet Bank                          | ♦ Shop'n Save Supermarkets (Troy)       |
| ♦ Frito Lay Inc.                      | ♦ Price Chopper Markets (Troy)          |
| ♦ Brunswick #1 Fire Department        | ♦ McDonalds Restaurants (Latham, Troy)  |
| ♦ The Spirit of St. Joseph            | ♦ Tobin's First Prize Meats             |
| ♦ Sycaway Creamery, Inc.              | ♦ Joseph Aiello & Son Produce           |
| ♦ Sycaway Bicycle Service & Sales     | ♦ Trojan Hardware Company, Inc.         |
| ♦ Gulli's Auto Wholesalers            | ♦ AIM Computer                          |
| ♦ Ham Central Amateur Electronics     | ♦ John Ray & Sons, Inc.                 |
| ♦ Sage Computer Associates, Inc.      | ♦ Folmsbee Transportation, Inc.         |
| ♦ AMES Department Store (Troy)        | ♦ John M. Mullins Rigging & Hauling Co. |
| ♦ Bozak Antenna Company               | ♦ 'On Da Road Agen' - Mobile Music      |

# Walk Away From "Window Warfare"

By: David Pascale, WB2HKR

I was listening on 7.290 MHz on Sunday Morning, July 9th. The Western New York ATV Group was running a net to gather beam headings and other information on an ATV balloon they had launched from the Batavia (NY) Hamfest. The balloon was sending out a constant picture on 439.25 MHz as well as an FM modulated CW beacon on 144.34 MHz. They had been gathering signal reports from stations that had heard the beacon and/or seen the video signal. Since I had heard the beacon (I don't have ATV receive capability) on 144.34 MHz I checked in with the Net Control and gave my report.

Many stations checked in, including a few local operators whose call I recognized. All seemed to enjoy hunting the whereabouts of the weather balloon. Then... the trouble started.

An AM station announced its presence by clearly identifying itself and claiming that 7.290 MHz was the AM "window" (which it is) on 40 meters and "Slop buckets had no business here". The AM station began to transmit regularly and engaged in conversations with other AM stations. The Net Control Station at the Hamfest politely asked the AM station to clear the frequency so the net could continue. Although the AM station never acknowledged the Hamfest net control station specifically, it continued to complain about "Slop buckets being in the AM window." The AM station also continued transmitting and made it clear that it was not going to recognize the Hamfest station as the primary holder of the frequency.

As is typical of such on-the-air confrontations, the battle escalated with other stations now joining the fray. Some threatened to phone the offending AM station, including "30 operators at the hamfest" who advised the AM operator to take his phone off the hook unless he

wanted to be flooded with calls. The fracas ended, but certainly was not resolved, when the Hamfest station reluctantly capitulated and moved to another frequency. The AM operator remained on 7.290 MHz, but was now accompanied by several unidentified carriers.

I sort of sat there in modest amazement. One question came to mind: What was the point of all this?

Technically speaking I think I know who was "right" here and who was "wrong" but I guess I don't care. The fact is I had a pleasant Sunday Morning devoted to enjoying this hobby disrupted by a "Window War." I am not technically involved in Electronics or Communications and Ham Radio is pure escape for me in the most positive sense of the word. I've been in business for years and I've been engaged in plenty of corporate battles that were real in the sense that there were bonafide consequences for the winners and losers. Here there was no fight and no winner and no "turf" just a lot of nonsense.

I think this type of "window warfare" does support my contention about the customary allocations of Frequencies. I think it's a lot of baloney. There is no legal basis of course and I submit that it should be abandoned as a custom as well. I thought carefully about one of the AM operators statements. "Everyone knows that this is the AM window." Honestly, before Sunday morning July 9th, I didn't know it!

Before I start getting flooded with hate mail from 75 meter phone net freaks or the slow scan boys from 14.230 MHz let me make a distinction between what I think is casual and OK and what has become customary and I think not OK. Webster defines custom as "frequent repetition of the same act." Casual on the other hand is defined as "occasional". The use of the Amateur

frequency is by the nature of the hobby itself occasional, but to me the use of any frequency is the result of a chance occurrence, there are simply no such things as "customary rights." It's fine to use 14.230 MHz for slow scan contacts, and by monitoring that frequency you drastically improve your chance of making a slow scan contact, but the acquired right to any frequency vanishes as soon as you relinquish it, and that's as it should be. I know there are many amateurs who disagree with me, but I see nothing wrong with using ANY frequency for any purpose, as long as it is appropriate for your license class.

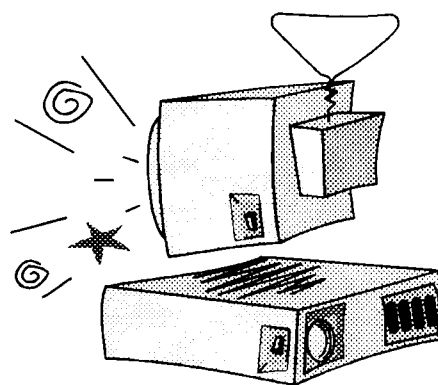
Most Amateurs are pretty reasonable. I count myself among the reasonable ranks. If I were talking on a frequency and there was a net that was about to start on that frequency I would happily move somewhere else. I guess where I differ from a lot of other hams is in my contention that not only do I not have to move if I don't want to, but I am not required by any custom to move and should not be chastised if I decide to stay where I am.

There is no AM window, or DX window or slow scan window. There is a quantum leap between an amateur improving his chances of making the kind of contact he desires and a practice which has been firmly established as a custom. There is nothing wrong with improving your chances, but that's all your doing.

Before you decide whether I am right or wrong, think about the skirmish up on 7.290 MHz., think about perhaps a different outcome if those involved had a different mindset. If frequency use was understood as the result of chance happenings with our chances improved for the type of contact we want on some frequencies versus others, I think we would all be happier and there would be fewer "window wars".

# TARA COMPUTER CORNER

Featuring computer tips and advice for IBM users.



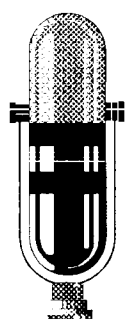
Well, Windows 95 is due out some time in August. No one still knows what will or won't be included. Nor does anyone know how buggy it will be. Remember Windows 3.0? It was a monumental upgrade and the first version of Windows that was really worth anything. Those of us who jumped on it right away, averaged about one crash per hour until we got it tweaked, then it was only about one crash per day. When Windows 3.1 came out, it solved most of those problems. Remember, history has a way of repeating itself. Here are some Windows 95 "Hits and Misses" taken from some of the industry publications.

- **HIT** - The operating system will allow users to work on one document and fax, e-mail or print another simultaneously.
- **MISS** - to access e-mail or the Microsoft Network, PCs must have 8MB of RAM.
- **HIT** - Full-screen video is possible.
- **MISS** - It requires a Pentium PC.
- **HIT** - Autoplay feature automatically installs a CD-ROM.
- **MISS** - Windows 95 can't automatically identify which sound card a PC has.
- **HIT** - A universal in-box lets users collect all e-mail and faxes in one place.
- **MISS** - Users can't incorporate information from other on-line services directly into documents for sending via e-mail.
- **HIT** - No more eight-character file name restriction. The limit is 250 characters.

It seems that everyone expects Windows 95 to take the home computer market by storm, while businesses are going to wait and see. Unless you want to be the "first on your block" I suggest that you wait till it's been out at least a week, and then check the on-line services (America On-line, etc.) to see what problems people are having.

Don't forget to back up your important data files **BEFORE** doing the upgrade. If you have the capability, you may want to back up your Windows directory and all subdirectories **BEFORE** you upgrade.

Coming Next Month - WINDOWS 95 HORROR STORIES. The first one to send me a horror story via packet wins a special prize from BUBBA!!! The BEST horror story will also win a prize!



*The Exciting World Of*

## ATV/SSTV TODAY

For over 60 years amateurs have been experimenting and communicating over the air waves using television or more commonly known to amateurs as FSTV/ATV (fast-scan amateur television) or SSTV (slow-scan amateur television). Over this period of time amateurs have taken this mode of communication all the way from the old crude mechanical equipment of yesteryear, right up to present day solid-state equipment. Today's ATV'ers design, build, and maintain their

systems, with many offering color. Amateurs have also replaced the old archaic cameras and monitors weighing tons, with miniature sized equipment so they can go portable in their cars/trucks or even model aircrafts, some weighing just ounces.

On the SSTV home front, amateurs are continually improving the quality of this mode. SSTV unlike ATV, is still in its early development stages. SSTV was first developed and introduced by an amateur back in the early 1960's and amateurs are still perfecting the technology of beaming their pictures world wide. Several amateurs have even worked over 100 DXCC countries on SSTV!

In just the past 10 years the changes that have occurred in the field of SSTV have been staggering, and only time will tell what's in store for the future. In the months to come we hope you'll enjoy this new section of the newsletter as we explore this mode of communication. If you ever have a particular question regarding ATV/SSTV please drop us a note here at TARA.

# HOME BREW/TEXAS BUGCATCHER

## KILOWATT MOBILE ANTENNA

Submitted By: Larry, KN4IM • KN4IM@N4CII.#CHS.SC.USA

I have been interested for years in HF mobile operations and in building mobile antennas that work better. I just thought I would share some ideas that work just great and I'm using now.

My current HF antenna, after melting the contacts of my remote tuned rotary inductor with my new TenTec Hercules II linear on packet, consists of a base wide-band ferrite toroid autotransformer, a 22" solid stainless steel Wilson mast section, Henry Allen's \$169 6", handmade, Teflon and Lexan #10 coil. A 72 turn 3" Allen coil is added to resonate the antenna down to 160 meters. I use quick connectors, a 4' stainless steel mast with 12-spoke capacitor hat, 36" in diameter, 4' above the coil, and the bottom of a 102" Radio Shack stainless steel CB whip cut down so the whole thing will miss most cable TV wires, telephone wires, low overpasses and some (but not most) tree limbs.

The base insulator is a Workman base insulator with 3/8-24 SAE mount imbedded in a plastic cone with 3/8-24 bolt on the bottom double-insulated from my trailer hitch under the bumper. The double insulation is because at 600 watts, single insulators hissed! Connection to the autotransformer is by #8 stranded copper wire soldered to a 3/8 heavy lug mounted between the mount and mast.

The autotransformer that really makes this antenna great is a 3 1/2", 250 permeability high frequency ferrite toroid wrapped double with fiberglass insulating tape and wound with #10 bare solid copper wire, the kind used for neutral or ground in power boxes. Insulation is not necessary as we are going to solder directly to the outside of each of the 8 turns. After winding the heavy wire evenly around 300 degrees of the donut and leaving lots hanging out in parallel at one side, the donut is placed into a Radio

Shack plastic construction box that is just wider than the toroid. A mark is made where each turn goes around the outside of the toroid on the inside of the box. At each mark a hole is drilled to accommodate a Radio Shack chassis mount banana jack. After the jacks are mounted, the winding is directly soldered to the lug on the outside of each turn. I heat the heavy copper wire, tin it and let it heat the lug to keep from melting the plastic of the banana jack. Mounting the coil is AWFUL! but a good low resistance contact is your reward, an extra lug is mounted for "straight thru" and soldered to the 'hot' end of the coil. The other end of the coil is soldered to a heavy #8 braided grounding strap long enough to make good ground in 4 places on the trailer hitch and frame of the car. There is a second core mounted in the box with 17 turns of #10 insulated solid copper tapped at 12 turns primarily for 160 meters but works also on 80 meters. The 8 turn coil does not have enough self-inductance for 1.8 MHz. There is a banana plug on the main coax into the box so it can be plugged into the high end of either core depending on the band. With this configuration, input and output taps can be tried for any band. The Henry Allen coil tap provided with the coil or the tap kit I also mistakenly bought will not fit the large #10 wire of his coil. I discarded all that and installed a plated, flat large crocodile clip on the end of a piece of stranded #8 mega cable stereo wire long enough to go from the bottom bolt on the coil to the top bolt on the coil. The wire was wrapped all around the mast and the coil screwed onto the end to clamp the wire firmly in place. The wire is so stiff that once bent in an arc from desired tap to the bottom of the coil, it holds the clip perpendicular to the coil at any speed without leaning or shorting. Use SOLID not stranded #10. Signals on

160 meters have been called "amazing" and "best I have ever heard from a mobile" and "I don't believe you are mobile". The capacitor hat below sometimes flashes over on the ends. The top of the whip had to be bent into a 2" backward facing loop to prevent continuous plasma arcing from the very top of the antenna on 160 meters.....NEAT!

The capacitor hat is made from 36" long stainless steel welding rods bent in a V in the middle and clamped between 2 -3/8 nuts by large stainless washers. The washers are crimped after tightening in the middle of the V to keep them in place. The top nut is really a double female 3/8-24 SAE coupling so we can screw the CB whip in the top. The whip was cut so the antenna will fit under a 14 ft bridge. If you run high power like I do, you'll need to bend the ends of each capacitor hat wire in a U to prevent corona arcing and put a corona ball of some sort on the top end of the whip.

The antenna is plugged into the "straight thru" jack on the box for initial tuning on any band the first time. The bugcatcher tap is adjusted to find minimum SWR at the desired frequency. Then the tap is moved down the coil to find the very lowest SWR which is normally perfect. Finally, the bugcatcher tap is adjusted again because there is some interaction with the inductance of the transformer. Once this setting is achieved, the toroid tap is marked for that band and need not be changed across the entire band. This antenna covers the entire band on 30 through 10 meters, about 120 kHz of 40 meters, 40 kHz of 80 meters and approximately 20 kHz of 160 meters without retuning its perfect SWR. On the 8 turn toroid, 80 tunes best 2 turns from maximum, 40 meters is great at 3 turns down from maximum, 20 meters down 1 turn from maximum.



# LEARNING CODE THE RIGHT WAY

Submitted by: Sue Rothschild, N2LBR

To many people, learning CW is about as much fun as having their teeth drilled at the dentist. While the advice presented in this article won't prevent tooth decay, and probably won't make CW practice your favorite pastime, it will hopefully make your practice time more effective, and thereby accelerate your progress toward achieving your goal — passing the CW exam!

The recommendations offered here come from many sources: my own experiences learning code (ouch!); advice from my OM Walt, WA1KKM, who is more proficient at CW than I could ever be; and testimonials from successful and unsuccessful candidates at our (ATVET team) VE exam sessions over the years. The irony of learning code the wrong way is that it usually works well enough to get to 5 WPM, but makes building up to higher speeds much harder than it would otherwise be — all of the bad habits need to be unlearned, and the good habits learned from scratch. Much better to do it right the first time.

The single most important thing about learning code is repetition. After hearing a character a few hundred times, it actually starts to sound like something (really!). Because repetition is so crucial to successfully learning code, it is far more productive to schedule 15-minute daily practice sessions rather than weekly sessions lasting a couple of hours each. The daily sessions allow the repetitions of the previous day to extend your progress into the next session, whereas with the weekly session, you've forgotten almost everything in between! (Who wants to do code practice for two hours straight anyway?)

If you've never heard code before, a beginner's code tape is the best tool to get you started. Concentrate on what each character sounds like as you hear it so you can recognize it by its aural qualities

alone. (Forget those kid's toys that flash the dots and dashes with colored bulbs as if Morse Code were a visual language.) The objective of learning code correctly is to recognize the CW characters immediately upon hearing them, by minimizing the number of translation steps required. Adding intermediate steps, such as counting the number of dits and dahs, will surely slow you down!

Once you are reasonably familiar with the characters, it's best to put the tape aside in favor of other practice methods. The tape is the same every time you listen to it, and even though you may think you're learning the code, you're really just memorizing the tape. Many unsuccessful candidates lament how they can do the code tape at home so well, and just "freeze" when they're at the exam. The problem is that the tape is so familiar to them, but the code test is new and different, and the order of the characters in the text of the exam is unexpected. Use of other methods provides practice at copying text that changes with each practice session, and so prepares you better for the exam. An excellent source of code practice is W1AW, which transmits daily practice sessions at many speeds. (Consult QST for the W1AW code practice schedule.) If you don't have suitable equipment to receive the practice transmissions, TARA has two W1AW code practice receivers that are available for members to borrow. Other good alternatives are computer-generated CW practice sessions and code practice simulators available on many deluxe keyers. Of course, the best source of practice is doing CW for real, ON THE AIR! (Note that the FCC has no rule prohibiting a no-code tech from using CW on VHF/UHF.)

Some final words of advice: If you're like most people I've spoken with, your "progress" in learning code will often include "regress." Don't despair. It's perfectly normal to expect that some days you'll be more alert than others, and so your progress will not be uniform. Walt warned me when I was learning code that at one point or another along the way, every character would have a turn at being my worst. Boy, was he right! I'd get so frustrated that the character I used to know was no longer recognizable. But eventually, I relearned it, better than I knew it before. There will also be "brick walls" along the way, where you don't think you can ever break through. Usually, these barriers are caused by some bad habit or another. Identify what you're doing wrong and fix it. I hit a brick wall because I couldn't write fast enough. If you also have that problem, try streamlining your handwriting. The letter "E", for example, takes only the duration of a dit to send, but four strokes of the pen or pencil to write, if you are using capital block letters. Using small print or script letters can save lots of time. (This is an example of a bad habit that worked fine at low speeds, but slowed my progress at higher speeds.) If you can type reasonably well, an alternative to changing your handwriting is to do code practice with a keyboard. You can even take your code exam using a keyboard, if necessary. (Make arrangements with the VE team before the exam session if you require this option.) Walt had told me the four "P's" of learning code: Practice, Practice, Practice, and Patience. They work! And the best surprise of all is that not only can you pass the test to get that upgrade, but at some point, completely from out of nowhere, CW becomes a language, a recognizable means of communication, and most of all, FUN!

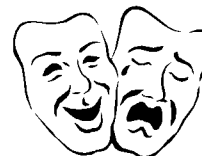




*The All New*

## Hooray for Hollywood

Written By: Bill "Hollywood" St.Jean, N2YNP



### BIRTHDAYS:

Ed Robideau, N2PEO 7/31  
Rebecca Decker 8/03  
Karen "Red" Smith, KB2UUC 8/05  
Linda Ganance 8/08  
Katie Collis 8/16  
Jerry Winnig, KB2TWH 8/23  
Virginia Decker 8/24  
Francis Hogan Jr., KD6SIK 8/24  
Harry "Bud" Hovey, WF2B 8/28  
Chrissy Bulger, N2WUB, 7/23

### ANNIVERSARIES:

Bob, KB2QWT & Linda Ganance 7/27  
Bamey, KB2KDY, & Pat, KB2SCR, Decker 8/12  
Sue & Frank Hogan, KD6SIK, 7/19

### BELATED BIRTHDAYS:

June Smith, KA2VEK 6/01  
Sharon Collis 6/05

### BIRTHS:

Aysha Marie Renee Johnson 7/4

T.J. Culliton, KB2KJZ, son of Mr. & Mrs. Jack Culliton, N2LBZ, graduated from Troy High School on June, 25, 1995.

Sara Carney, N2WUA, daughter of Mr. & Mrs. Paul Carney, N2UZR, graduated from Troy High School on June, 25, 1995. Congratulations and Best wishes for the both of you in the future from all of us. We know that both of you have made your parents very proud.

Christina Rea, N2YBU, has successfully passed her Advanced Class license on June 28, 1995. Christina is the daughter of Mr. and Mrs. Pete Rea, WZ2X. Good going Christina! Stay with it and get your Extra ticket.

Bill "Hollywood", N2YNP, and Carla St.Jean proudly announce the birth of their grand daughter Aysha Marie Renee Johnson, 7lbs. 2½oz. - 19½ inches in length. Aysha was born at the Saratoga Hospital on July 4, 1995, both mother and baby are doing fine. The proud grand parents are still going nutty and call the baby "Re-Re".

### Dueling Antennas VHF vs UHF:

Well the competition is over and the question is answered. Even though there were harsh words exchanged between each of these teams, it came down to reality at Field Day. Both the VHF and UHF antennas performed equally, therefore the competition was declared a

tie. Both teams worked very hard on their projects and deserve a big round of applause, for a job well done! It looks like the pies have to be frozen until next year. TARA is now the proud owner of a 5 element - quad VHF antenna, plus an 8 element yagi UHF antenna. Congratulations to both teams.

Editor's Note: Let's hope we can encourage more of these projects. Our hats are off to both teams on this one.

### Field Day '95:

Yes, Field Day has come and gone for '95 and it was a complete success. At this time I am going to be serious, no joke! I attended my first Field Day in June of '94 and it was very exciting. I really didn't know what was going on but somehow that didn't matter. The only thing that I did know was everyone was nice, they were having fun, and kept putting food into my hands. I am sure those of you who are new members and possibly some of the older members who attended this year's Field Day may have felt the same as I did the first year.

With Field Day '95 being the second Field Day that I've attended, it is the first that I have actually participated in, from beginning to the very end. For this reason I want to share the following observations with you.

I didn't know how much had to be done to prepare for this day. Let's begin

with the people who made it a success, TEAM WORK! If I was to name all I wouldn't have enough room and would surely miss a few names. So let's just say that everyone who participated and attended are the ones who made it successful.

It just didn't happen overnight as those who might have seen it on TV might think. It is an enormous undertaking which begins months in advance and continues on after it's over. From the organizing of the place and time, to the acquiring of stations, antennas, food, setting up and taking down, it all boils down to one thing VOLUNTEERS! Without you it would never have happened.

I noticed that there was not one EGO seeker at our Field Day, only people with one thing in common which was getting on the air and sharing the joy with everyone else. For this reason, I want to say from the bottom of my heart and hopefully I can speak for everyone else. THANKS!

Don't forget to fill out the questionnaires for the future events and remember that the harassing is only done with humor in mind. Remember always that this is a family oriented club, and in order to hear the very best news/gossip OOP's! Shhh, you must be ve-wy, ve-wy quiet.

## Newburg to Warrensburg??

Can it be possible for the TARA repeater system to cover the north/south boundaries from Newburg to Warrensburg? Well....almost!! Since the repeater system was moved just about one month ago, it now has coverage like never before. Our Repeater Manager, Dennis, N2USN, reports he has chatted all the way from Warrensburg, right down to 6 miles North of Newburg. On one of his more recent attempts Dennis was able to take the 145.17MHz side of the repeater all the way down to Hudson, on just 5 watts. Was he DFQ (Dead Full Quieting) all the way, no. However he was very solid into the repeater. After crossing over the Rip Van Winkle Bridge he continued to use just 5 watts, right down to Saugerties. From Saugerties down to Newburg,

whoops 6 miles north of Newburg, he then switched to high power.

Going westward, Dennis and others have found that the repeater (145.17MHz) starts coming in around Fonda, Fultonville area.

We've had reports from our old buddy King Paulie, N2MSY, of Kingsbury who now finds it no sweat at all to use either the 145.17MHz or 444.225MHz repeaters, with just a handheld. We even have a station over in Lee, Massachusetts that checks in and joins the gang, not bad, eh!

Switching to the 444.225MHz side of things we're still experiencing some occasional scratches from something on site, we think. We're hopeful this problem will be corrected shortly. Over all this repeater has done very well from this new location, except to the East.

Unfortunately we had to mount the antenna for the 440MHz repeater on the West railing level of the tower, which explains the poor eastern coverage. With the two repeaters linked this shouldn't pose any problem for anyone with dual band capabilities.

Right now both repeaters are covering Troy with few, if any, dead spots. Covering Troy thoroughly has been one of our main objectives since the repeaters first went into service. Let's hope old "lady luck" stays with us! Dennis and the repeater team would appreciate any signal reports that any of you could share, so we can get a better understanding of the repeater footprint. Also the repeater team wishes to convey their thanks to the members for their active participation with this project in many different ways.

## New Repeater Antenna

At our last monthly meeting the membership approved the expenditure of replacing our 2 meter repeater antenna. This antenna suffered damage during installation at our new site and it was recommended that it be replaced to get rid of the scratchiness on the repeater. Not to mention protecting the repeater itself from a high SWR. We have already checked with our insurance company and they'll be picking up part of the expense of the new antenna under our club insurance policy.

On June 22, 1995 John, WA1YXQ, placed our order for the new antenna and the following afternoon it was delivered, now that's service! On June 28, they returned to the tank and replaced the damaged antenna with our new one. All told it took just 8 days for this club to complete the job, from presenting it to the membership, to on-the-air testing.

The new antenna is a Telewave Model ANT150F - 6db fiberglass collinear. This particular antenna is a high gain omnidirectional antenna, end fed, which has been specially designed for use under the most adverse conditions. This antenna has a power rating of 500 watts, weighs 34lbs, stands 240 inches tall, and is fabricated to withstand wind loading of up to 125 MPH with 1/2 inch of radial ice or 150MPH wind loading without ice. It's estimated the antenna will cost somewhere in the area of \$575.00 to \$600.00 before our insurance claim.

## New TARA CW Net

Submitted By: Rick, KB2TRZ

Yes, we would like to start a TARA CW net for hams in the club who enjoy CW. This would provide a noncompetitive, friendly and relaxed atmosphere to enjoy CW among club members and non-members.

No need to worry about how fast you send and receive or not being able to copy that DX contact. "Just some rag chewing with friends."

I have received a pretty good response on this and would like your opinions.

- ♦ Day: Monday
- ♦ Time: 7:30 PM
- ♦ Freq: 21.150 ±

Anyone with questions or comments should contact Rich Graham, KB2TRZ, at 273-7585 or on the 145.17MHz repeater.

## Other TARA Nets

- ♦ T.N.T. Trader Net held on the 145.17 MHz repeater each Thursday, starting at 9:00 PM.
- ♦ T.N.T. Ten Meter Net held each Wednesday at 8:00 PM, on 28.495 MHz ±

## RULES SET FOR THIS YEAR'S HPM BIRTHDAY CELEBRATION

Last September's on-the-air commemoration of Hiram Percy Maxim's 125th birthday was such a great success that the ARRL Board of Directors decided to make it an annual affair. So if you remember what a great time it was last year, get ready! (Check out K1TN's article in January QST).

HPM-126 will be held September 2 to 10, 1995, with eligible stations this year signing "/126." This year, anyone who holds an ARRL volunteer position and is an ARRL member is eligible to sign /126. This adds (compared to last year) volunteer examiners, assistant emergency coordinators, QSL Bureau workers, and awards managers who are ARRL members to participate as part of the ARRL family, as well as anyone else entitled to an "official" ARRL badge. As if that wasn't enough, if you're an ARRL life member, you're included this year, as well!

Just like last year, a special operation from W1AW is planned for the September 2-3 weekend. An expanded awards program also is offered, and will be detailed in August QST.

## California License Scam Probe Continues

The FCC may be readying punitive action against a large number of hams and former hams in Southern California. This, in connection with last year's probe of wide spread amateur radio licensing corruption throughout the area.

According to usually reliable sources, the licensing fraud investigation did not end when two hams were stripped of their licenses and another had his suspended. That action simply took the probe out of the limelight, permitting it to continue outside the glare of public scrutiny.

You may remember that almost three dozen Volunteer Examiners were suspended state wide and close to a hundred applicants were ordered to be retested. Almost none of those told to take new exams by an different VEC bothered to do so. Most of those who did, failed. Many simply turned their licenses into the FCC for downgrading or outright cancellation. There is strong speculation that it was this group of applicants that has turned state's evidence against the allegedly corrupt VE teams. It is definitely known that the FCC has been able to amass a mountain of evidence in the case. Now, after a year and a half of investigating, word on the street is, that the ax is about to fall on those who are believed to have corrupted the all volunteer testing system out west

## Brown's Beach Triathlon

On Sunday, July 2, 1995 our club provided communications for a Triathlon being held at Brown's Beach on Saratoga Lake. RACE organizers didn't get in touch with TARA until just three days prior to this event and were elated by our turnout on such short notice. This was the first time the organizations have worked together and fun was had by all. Kim Fan, N2ZLA, who filled in as head organizer for Ken, Collis, N2RXO, did an outstanding job.

The triathlon started around 8:00AM and wound down at about 12:00 noon. RACE organizers were so impressed with our communications capabilities that they have already asked that we help again next year. It should also be noted that our members were treated very graciously at this event. Sounds like this is going to be a very popular event in the years to come!

The following is a list of those who participated on behalf of TARA: N2ZLA, N2YNP, KE2XF, KB2UUC, KB2SPM, and N2UID

## T-Shirt Artist

This year TARA had the great fortunes of having a local artist who donated his services of designing TARA's Field Day logo. All of this was made possible by Tim Davis, N2WJG, and his Nephew Jim Robinson, who happens to be a artist who lives right in Troy. After just one visit with Bill, NY2U, Jim was able to come up with the final product that we proudly wore this year. Our club president had the following remarks, "I've never heard so many compliments on our t-shirts as this year, by members and non-members alike." "Our organization is extremely grateful to have members and friends that can take a project on like this, and do it up first class!" Also Bill thanked George "Spuds", N2YXC, for assisting him with the t-shirt/hat order.

## SKYWARN and TARA?

At our last monthly meeting it was brought to the attention of the membership that Bill, NY2U, will no longer server as Assistant Weather Coordinator to Rensselaer County, effective June 20th. Bill went on to explain that it wasn't proper to be running SKYWARN Nets on the TARA repeater system, while holding an officers position for the county. He made particular note that during inclement weather we will continue to sponsor SKYWARN Nets and other weather related happenings.

Presently TARA is trying to make plans for additional weather training for those that might be interested. This is in addition to the SKYWARN certification that many TARA members already hold.



# ATVET '95

Albany & Troy Volunteer Examiner Examiner Team

ATVET will be holding their next exam session on Wednesday, July 26, 1995, in the C.I.I. Building (Center for Industrial Innovations), Room 3051, on the Campus of R.P.I.. The examination room doors will open at 6:20PM, with exams starting at 7:00PM sharp! NOBODY will be admitted into the exam room after the 7:00 PM starting time. ATVET never requires any pre registration for any of their exam schedules. A test fee of \$5.90, either cash or check, is required for those taking any elements above Element -2 or Element -1A. Make sure you bring two proofs of identification, with one being a picture ID. Also bring any of your original documentation (current license, CSCEs...etc.), along with photo copies, calculators, pens and pencils to the exam session. Anyone needing special handicap arrangements are asked to call in advance. The CII Building is handicapped accessible.

The exam dates listed below are the remaining sessions for 1995. Cancellations if needed will be announced on both the Capital District Repeater Net (Nightly on 146.94MHz at 6:30 PM) and WGY - 810 AM.

<b>June 28</b> <b>7:00PM</b>	<b>July 26</b> <b>7:00PM</b>	<b>August 23</b> <b>7:00PM</b>	<b>September 20</b> <b>7:00PM</b>	<b>October 14</b> <b>9:00AM</b>	<b>November 11</b> <b>9:00AM</b>
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## Amateur Radio Call Signs Issued as of June 1995

## ATVET Liasion Report

Albany/Troy Volunteer Examiner Team

Written By: W.J.Eddy, NY2U

Radio District	Group "A" Extra	Group "B" Advanced	Group "C" Tech/Gen	Group "D" Novice
0	AA0WX	KG0XC		KB0SWQ
1	AA1NO	KE1BU	N1VGK	KB1BSD
2	<b>AA2XP</b>	<b>KG2CX</b>		<b>KB2UXP</b>
3	AA3LW	KE3TS	N3VOD	KB3BJL
4	AE4IU	KS4YB		KF4AQY
5	AC5DE	KK5PK		KC5OYU
6	AC6NN	KO6WN		KE6URO
7	AB7KN	KJ7OI		KC7LLW
8	AA8TS	KG8RR		KB8ZWA
9	AA9PB	KG9CQ		KB9KSE
N.Mariana Is.	KH0R	AH0AW	KH0DW	WH0ABC
Guam	WH2P	AH2CZ	KH2NT	WH2ANM
Hawaii		AH6OD		WH6CVT
Amer.Samoa	AH8O	AH8AH	KH8CI	WH8ABB
Alaska		AL7QC		WL7CNA
Virgin Is.	WP2R	KP2CE	NP2IG	WP2AHX
Puerto Rico		KP4ZO		WP4MYZ

The June 28, 1995 exam session held on the campus of RPI served a total of 10 candidates, with 9 volunteer examiners who administered a total of 20 exam elements. Out of this group there were 4 candidates who earned their Technician Class, 3 Tech/Plus, 0 General, 2 Advanced, and 1 Extra Class. The following VEs were on hand for this session:

**NY2U, K2BUF, N2QIP, WA1KKM, WA2IWW, WB2HKR, N2LBR, WB2SBO, and KF2WA.**

The names listed below earned either their first ticket, or credit towards a license upgrade:

- William J. Sullivan, Jr., KB2UUD TECH/HF
- Joseph E. Therrier, NONE TECH
- Christina R. Rea, N2YBU ADVANCED
- Carol R. Bacon, NONE TECH
- Marcus L. Shoobe, N2XLC ADVANCED
- Mary B. Rosetti, NONE TECH/HF
- Dale B. Fritz, NONE TECH/HF
- Richard L. Jansen, NONE TECH
- James B. Rouhan, NONE TECH
- James G. Donohue, NONE EXTRA

## DX News From Around the World

*Here's the latest list of what's happening around the hf bands, enjoy!*

TNX ARRL

**HEARD ISLAND, VK0.** The Australian Antarctic Division has issued a permit allowing a full-scale amateur radio operation, so plans are in place for this all band, all mode operation, including RTTY and satellite. A multinational team will sail from western Australia November 1, 1995, and expect to arrive at Heard on about the 12th. Departure from Heard will be on December 1. DXpedition organizers are 3YØPI veterans K0IR, KK6EK and ON6TT. Other team members include HB9AHL, N6EK, PA3DUU, K5VT, DJ9ZB and JH4RHF.

**JORDAN, JY.** King Hussein, JY1, was on the air Thursday and Friday last week. List operations headed by Mary, WA3HUP, and Amir, 4X6TT, were on 14240 kHz starting at 2130z. QSL JY1 via WA3HUP. Keep Listening!

**TUNISIA, 3V.** OE6EEG plans to operate club station 3V8BB during the first two weeks of August. Some RTTY is possible. QSL via JF2EFA.

**TOKELAU ISLANDS, ZK3.** Ron, ZL1AMO, is signing ZK3RW with most activity being on 80 through 17 meter CW. Check 3505 kHz around 1016z, 14025 from 2300 to 0230, and 7005 at 0530. Listen on 14195 kHz for SSB. It has been reported that Ron will be there for about three more weeks. QSL via ZL1AMO.

**WAKE ISLAND, KH9.** AL7EL, WB2DND, KC7V, K4HQL, and possibly others, are planning a DXpedition scheduled for some time this fall. Three stations are planned and some action in the CQWW SSB Contest in October is possible.

**COCOS ISLANDS, TI9.** Jose, TI2JJP, may return to Cocos for about 15 days starting about October 9 or 10.

**ANGOLA, D2.** Peter, ON6TT, will be leaving for D2-land this week for a Red Cross mission for the next 2 months. Further details as they become available.



# T.N.T. Swap Shop

*TARA assumes NO responsibility for any of the items listed below. The availability of this service will be on a first come, first serve basis. All items must be submitted by the 20th of each month, to the editor.*



✓Buy  
✓Swap  
✓Sell

## For Sale

Drake TR4C & matching AC4 speaker/power supply. Excel. condition, all crystals for 10 Meters, New Tubes, manual and guaranteed!

\$300.00 • 518-499-0171

## For Sale

• Regency 16 channel scanner, \$20.00  
• Kantronics Interface. does CW, RTTY, ASCII, comes with a Vic 20 computer and Green Screen. \$45.00

Rudy, N2JZK • 518-271-7282

## WANTED

In need of Kenwood matching speaker for the Kenwood TS940S series. It can be either the SP940 or SP950 speaker that matches the newer TS950 line.

Glenn, WB2FOB • 518-482-5584

## For Sale

Drake TR3...NEEDS WORK! Will make a good radio for someone that has the time to tweak it up. Extra tubes, make offer.

John, KA2VBI • 518-235-9321

## WANTED

I need your old junky circuit boards. Anything that can be used for teaching young children about components and soldering techniques.

Ken, N2RXO • 518-233-1815

## For Sale

• New, Weller soldering station, with grounded tip. \$50.00

• Yeasu 101EX with freq counter and SWR meter, and other goodies \$425.00

Rollie, WB2CNS • 518-237-6258

## TARA TELEPHONE DIRECTORY

### ARRL:

New Ham Hotline  
1-800-326-3942

### ARRL/VEC

203-666-1541 or  
203-594-0200 (New)  
e-mail: vec@arrl.org

### ARRL/FAX

203-594-0259 24Hrs.

### ARRL/BBS

203-594-0306

### ARRL e-mail Addresses:

- CompuServe:  
e-mail: 70007, 3373
- America Online:  
e-mail: HQARRL1
- GEnie:  
e-mail: ARRL
- Prodigy:  
e-mail: PTYS02A

### CLUBS:

Albany ARA  
518-477-9581 (Ernie, KA2HTU)  
Repeater: 145.19/R KM2H

### Albany Co. RACES/ARES

518-237-8473 (Bob, WB2ZCM)  
Repeater: 147.12/R WB2ZCM  
WC2ACJ-4 on 145.09MHz

### CDARC

518-869-1074 (Jack, WA2YBM)  
Bulletin Mgr: 518-664-6809  
WA3RKB-4 on 144.95MHz

### Columbia Co. RACES/ARES

518-799-3105 (Steve, KE2WO)  
Repeater: 147.21/R WB2UEB

### Rensselaer Co. RACES/ARES

518-283-3665 (George, N2LQS)  
Repeater: 147.18/R WS2B  
N2LQS@WA2UMX.#ENY.NY.NA

### Rip Van Winkle ARS

518-732-7532 (Dave, WD2K)  
Repeater: 147.21/R WB2UEB  
RVWS-4 on 145.07MHz

### Saratoga Co. RACES

518-587-7794 (Millie, KV2A)  
Repeater: 147.24/R WA2UMX  
WA2UMX on 145.01MHz

### Schenectady ARA

518-399-4473 (Dick, WV2F)  
Repeater: 147.06 K2AE  
K2AE-4 on 145.09MHz

### Schenectady Museum ARA

518-664-6809 (Steve, WA3RKB)  
Info Line: 377-0288  
WB2CRZ-4 on 145.01MHz

### Schenectady Co. RACES

518-399-0363 (Howard, W2ODC)  
Repeater: 147.06 K2AE  
K2AE-4 on 145.09MHz

### Southern Vermont ARC

802-442-7161 (Allen, N1LSZ)

### MISCELLANEOUS:

FCC LICENSE HOTLINE  
1-800-322-1117 (8:00 to 4:30PM)

### National Weather:

Voice: 452-3807  
Fax: 472-2629  
Packet: N2AIG-4 on 145.09MHz  
SKYWARN Nets: 145.17, 146.91 & 147.06  
repeaters

# Troy Amateur Radio Association, Inc.

## H.F. Frequency Allocations

FREQUENCY			FREQUENCY		
Low end	High end	ALLOCATION	Low end	High end	ALLOCATION
kHz	kHz		kHz	kHz	
9	14	Radio Navigation (OMEGA)	12230	13200	Maritime Mobile
14	90	Various Services	13200	13360	Aeronautical Mobile
90	110	Radiolocation (Loran C)	13360	13410	Fixed Service, Astronomy
110	160	Military CW Stations	13360	13600	Mobile
160	190	Fixed Service (Power Companies, GWEN) 1750 Meters	13600	13800	International Broadcast 22 M
		FCC allows unlicensed transmissions under 1 watt	13800	14000	Fixed Service
190	415	Nautical Radionavigation Beacons	14000	14350	Amateur 20 Meters
415	510	Maritime Coastal (CW)	14350	14990	Fixed Service
		(International calling and distress (CW) - 500kHz)	14990	15010	Standard Frequency and Time Operations
510	535	Aeronautical Radionavigation Beacons (AMTOR, NAVTEX)	15005	15010	Space Research (Secondary)
525	1605	North American AM Broadcast Band	15010	15100	Off Route Aeronautical Mobile
1605	1800	Fixed, mobile, radiolocation	15100	15600	International Broadcast 19 M
1800	2000	Amateur 160 Meters	15600	16360	Fixed Service
1900	2000	Radiolocation	16360	17410	Maritime Mobile
2000	2300	Fixed, mobile, maritime	17410	17550	Fixed Service
		(International calling + distress (USB) - 2182 kHz)	17550	17900	International Broadcast 16 M
2300	2495	Tropical Band	17900	18030	Aeronautical Mobile
2495	2850	Fixed, mobile	18030	18068	Fixed Service
2850	3155	Aeronautical mobile (USB, CW, RTTY)	18068	18168	Amateur 17 Meters
3155	3400	Fixed, mobile	18168	18780	Fixed Service
3200	3400	International Broadcast 90 M (excluding N. Amer.)	18780	18900	Maritime Mobile
3500	4000	Amateur 80 Meters	18900	19680	Fixed Service
3900	4000	International Broadcast 75 M	19680	19800	Maritime Mobile
4000	4063	Maritime Mobile	19800	19900	Fixed Service
4063	4438	MARS (?) (CW, voice, RTTY, TOR, SITOR)	19900	20010	Standard Frequency and Time
4438	4650	Various Allocations	19900	19950	Space Research (Secondary)
4650	4750	Aeronautical Mobile	20010	21000	Fixed Service
4750	5060	International Broadcast 60 M	21000	21450	Amateur 15 Meters
5060	5450	Fixed, Mobile	21450	21850	International Broadcast 13 M
5450	5730	Aeronautical Mobile	21850	21870	Fixed Service
5730	5950	Fixed, Mobile	21870	21924	Aeronautical Fixed Service
5950	6200	International Broadcast 49 M	21924	22000	Aeronautical Mobile
6200	6525	Maritime Mobile (CW, voice, RTTY, TOR, SITOR)	22000	22855	Maritime Mobile
6525	6765	Nautical Mobile (VOLMET weather)	22855	23200	Fixed Service
6765	6795	Industrial, Scientific, and Medical (ISM) (CW, RTTY)	23000	23200	Mobile Services (Secondary)
6795	7000	Fixed Services	23200	23350	Off Route Aeronautical Mobile
7000	7300	Amateur 40 Meters	23350	24890	Fixed Service
7100	7300	International Broadcast 41 M	23350	24000	Mobile Services
7300	8195	Fixed service	24000	24890	Land Mobile, Fixed Service
		(Out of band broadcast - 7300-7500 kHz)	24890	24990	Amateur 12 Meters
8195	8815	Maritime Mobile (Survival craft - 8364 kHz)	24990	25010	Standard Frequency and Time
8815	9040	Aeronautical	25010	25070	Fixed Service
9040	9500	Fixed Service	25070	25210	Maritime Mobile
9500	9900	International Broadcast 31 M	25210	25550	Fixed, Mobile
9900	10100	Fixed Service	25210	25670	Astronomy
10100	10150	Amateur 30 Meters	25670	26100	International Broadcast 11 M
10150	11175	Fixed Service (primary)	26100	26175	Maritime Mobile
		Mobile (secondary)	26174	28000	Fixed Service
11175	11400	Aeronautical Mobile	26174	28000	Mobile Services
11400	11650	Fixed Services	26960	27410	Citizens Band
		(Out of band broadcast - 11500-11650 kHz)	27500	28000	Meteorological
11650	12050	International Broadcast 25 M	28000	29700	Amateur 10 Meters
12050	12230	Fixed Services	29700	30005	Fixed, Mobile
		(Also some out of band broadcasts)			



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**HF Contest Chairpeople:** Walt Legowski, WA1KKM  
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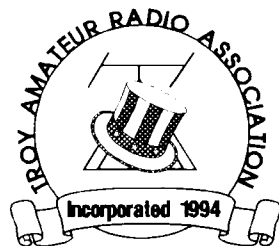
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Troy, New York 12181-1292



Troy, New York - Home of Uncle Sam  
Next Meeting: August 15th @ 7:30PM

**Jack Culliton N2LBZ**  
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