



# HOSARC Tours Brookhaven Labs

by Charlie Ridgway, KC2PED

Early on the morning of July 14th, 2006 eight club members and one guest (Steve, WB2KDG, Jim KC2LMH, Tom, KC2CBA, Howard WB2HLW, KC2PED, Anthony KC2OLF, K2EL, Rich KC2OSF, and David Chang) met early in the morning at HOSARC and convoyed out to Upton, Long Island for a custom tour of Brookhaven National Laboratory (BNL). Of course there was radio chatter along the way, mostly on simplex.

The tour was organized by HoSARC treasurer, Steve,

WB2KDG, as a result of his contact with scientist Doctor Helio Takai. Steve met him at a sci-fi convention where he was giving a presentation on cosmic rays.

BNL occupies 5,265 acres in central Suffolk County. Much of the land is undeveloped and is a pine barren. It was established as a research facility by the U.S. Department of Energy (DOE) in 1947.

I remember back many years ago when I took a similar tour of the facility with my Boy Scout troop.

The highlight at that time was looking down into a deep pool where nuclear fuel was stored when not in the reactor. The reactor was decommissioned back in 1969, but there are even bigger things to be seen there now. Perhaps some of them were there when I was a kid but the concepts were more abstract and the structures not as impressive to a developing mind.

Our quarry on this trip was atoms, or more properly parts of atoms. We were going to be visiting the cyclotrons and the super collider.

## HOSARC Activates Contest Station K1TTT

by Tom Golero, Kc2CBA

In October of 2005, I came across an article in CQ magazine's contesting section which detailed how to get involved in big time contesting. One of the methods outlined was to contact a well-established contest station and to ask for a guest operator position. The article also stated that owners of these stations were on the look out for new operators to join them and some even "lent"

their stations out. One contest station owner interviewed for the article was David Robbins, K1TTT. Dave said that all one needed to do to operate from his location was to ask him. I had a hard time believing the station I saw on Dave's website (www.K1TTT.net) needed or wanted outside operators, but I wrote him anyway. Dave wrote back to me in one day telling me he

was booked until December but after that with just a few exceptions his station was available for the club's use with no strings attached. He even sent me a contest calendar to help me pick a contest, which was not an easy task due to the sheer number of contests that are scheduled each year. Some amateur radio operators say there are too many contests on the bands. If you look at the

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### THE AMATEUR'S CODE

#### The Radio Amateur is:

- |                    |                  |
|--------------------|------------------|
| <i>Considerate</i> | <i>Loyal</i>     |
| <i>Progressive</i> | <i>Friendly</i>  |
| <i>Balanced</i>    | <i>Patriotic</i> |



Our first stop at 1000 EST was at the visitor center to meet Ms. Jeanne Pet-schauer the PR representative for the BNL for an overview of the facility and to get paired up with our host Doctor Takai. From there we went to see the Tandem Van de Graf generator. This is where atoms of gold are stripped of elemental particles and are put in motion at 5% of the speed of light (0.5 C). There is a big box the gold goes in and particles come out. It is painted gray but is really a "black box". All we were told was that "magic happens in there". The particles are piped into a huge machine that looks like an electric generator. It uses static electric fields to accelerate the particles. Some of the particles are used right there for low energy research, or by industry, and the remainder are piped up to storage rings and accelerator rings. One company buys Van de Graf particles to put minute holes in polyester film to be used as ultra-pure filter material.

Our next stop was at the National Synchrotron Light Source (NSLS). There they accelerate electrons in a big electromagnetic donut to produce UV and X-ray light. When the particles are going fast enough, and they are needed by the scientists, they are shunted out into a beam line, a pipe tangent to the doughnut. At the end of each beam line (and there are many of them) is a hut where the science takes place. The hutches are shielded to prevent the escape of X-rays. We saw a UV line managed by SUNY Old Westbury where the current research project involved taking pictures of water

pollution. Dr. Takai's wife is also a researcher there and is using an X-ray line to determine the shapes of viruses.

After the NSLS we visited the cafeteria where the institutional food was surprisingly good and there was lots of variety. We had an opportunity then to stop off at the Brookhaven Lab book store, no elemental particles available. At my lunch table we were joined by a high school teacher who was spending his summer at the lab as he said "bothering the scientists". He had a lot of questions about amateur radio.

Having refueled we made a brief stop in the control room for the particle accelerators. There they interface between the scientists using the heavy ions and the scientists generating them in the Van de Graf generators. They arrange for the delivery of the appropriate ions to the storage ring and accelerate them to 0.37 C and send them up to the RHIC when the scientists there are ready for them.

Our last stop was the RHIC, the Relativistic Heavy Ion Collider, a 2.4 mile ring in the northern part of the complex. This is a pipe about a yard in diameter that is buried in an above ground tunnel (for ease of construction/maintenance and for thermal stability). Half of the ions are directed into one pipe in a clockwise direction and the other half into the other pipe going counterclockwise. 1,749 superconducting electromagnets along the pipe accelerate the particles to 0.99995 C. That is closer to the speed of light than

Ivory soap is pure. The magnets also segment the beam so it is like 57 beads on a necklace. Every 60 degrees around this doughnut the pipes switch position: the inside pipe moving to the outside and the outside pipe to the inside. This keeps the distance traveled by the ions the same and keeps them in phase. They need to be in phase, and exactly in the center of the pipes, because the scientists want the particles going in opposite directions to ram into each other. Remember that we are talking about aiming an ion that is smaller than an atom, moving almost at light speed, at another ion doing the same thing coming at it head on. The resulting collisions, with the energy of two mosquitoes running into each other result in the release of even smaller particles (quarks, etc.) that are what is being studied.

During the summer there are weekly open houses on Sundays when the public can come and get a look at the lab. We are convinced that through Steve's efforts and the good fortune to have Doctor Takai accompany us the facilities allowed our group to have access to areas most tour groups will never get to see. I believe we got a better tour than the general public gets, no matter how good that may be. Although our time was tightly scripted we had the scientists doing the research there to explain what we were seeing and answer all of our questions.

A great time was had by all and nobody glows in the dark.



## K1TTT Station Operation by Tom Golero continued from page 1

list on [www.hornucopia.com](http://www.hornucopia.com), it's easy to see why some operators feel that way. After a few emails between Dave and myself, I chose the North American QSO party (SSB voice portion) for the club's participation. The contest was chosen for a few reasons. First, the contest is limited to 12 hours of operation and no more than two transmitters on at any one time, for a multi-op entrance. I didn't know how many club members would sign up or

how long we would have Dave's place for. As it turned out, after I booked the contest, Dave offered his place for the entire contest weekend. Four club members signed up for the trip. K1TTT can accommodate up to eight overnight operators. Second, the contest is limited to 100 watts and North American

operators only, which made it less intimidating than a world wide contest with stations running 1500 + watts for our first foray into contesting from an unfamiliar station. Third, the drive to K1TTT is 161 miles, and in January the weather can change very quickly. It would have been easier to back out due to weather for

*"CQ contest, CQ contest, this is WB2JSM, calling any station North America QSO party"*



# K1TTT Hosts HOSARC Operators

by Tom Golero continued from page 2

a minor contest than to reserve the station for a major contest, such as the ARRL DX Phone, and not make it up to his place. When I first pitched the trip to the club, I

thought that it would only take me 2.5 hours to make the drive to K1TTT. As it turned out it took me more almost 4 hours to make the drive. When you drive thru small towns with 30 mph speed limits, two lane highways, local construction projects, throw in a few speed traps and red lights, you can easily rack up unexpected time in the car.

On a brisk January morning, three members of HOSARC; Dave Huryn KC2ILK, Jim Shannon N2BAL, and I met in the parking lot of a local supermarket near the Whitestone Expressway. We left around 6:30 A.M. but not before Jim picked up enough sweets to put several diabetics into a coma. Who knew Jim had a sweet tooth? He has not an ounce of fat on him. Another club member, Tom Tumino N2YTF and his YL Liz left later from their Tarrytown home and met us at Dave's house later that afternoon. The ride to Peru, Massachusetts was pleasant and without incident. We drove through the Berkshire's which is beautiful country, and about 50 miles out from Dave's house, we made contact with him on the Mount Greylock repeater at 145.210 Mhz with a negative shift and a PL of 77. The repeater has great coverage, and is highly recommended if you are traveling through the area. The directions we got from Dave were fairly easy to follow with the exception of the last mile or so, but when we neared his home

it was apparent which way to go. The sight of a 180 foot tower stacked with large beams is not an easy sight to miss. As we neared his driveway we were all



*Super contest station K1TTT offers many state of the art amenities for the operator willing to make the trip to Massachusetts. Dave Huryn is pictured here as control operator.*

taken aback by the size of his antenna farm on his modest property. The property and all the antennas looked like it belonged on QST cover. If you want a



*Antenna work being performed on one of the many towers at the K1TTT station.*

real in depth look at the station or if you want to build your own super station, purchase his book at <http://www.lulu.com/k1ttt>.

Dave was waiting for us in his driveway when we pulled up. After all the introductions were over Dave wasted no time in giving us a full tour of his property. Dave has a total of six towers ranging from 180 ft to 60 ft, with each tower supporting one band with a stack of yagis, some fixed and some on rotors. A few towers serve two bands and also support a variety of inverted vees for 80 and 160 meters. He also has three two wire beverage antennas for 40 thru 160 which run the length of his property and a 4 square vertical array for 80 meters, which are impressive in their design and ease of use. When we finished the outside tour it was time to go inside and warm up, have some coffee, and familiarize ourselves with the house and the radios. Dave's home is geared with guest operators in mind. On the first floor there are two bedrooms to take a well deserved rest after the long drive or at the end of a contest shift. The main bedroom has 3 home made bunk beds to accommodate the large teams necessary for a multi-op entrance in one of the major contests. On the second floor is large screen TV and plenty of movies to entertain you between shifts downstairs. An interesting feature Dave has incorporated in his house is the computer terminal setup outside his bedroom which is linked to the computer network in the radio room. Whenever an operator has questions about the contest, radios, computer logging programs or whatever he is having trouble with, he can send a message upstairs, and in most cases, Dave can address the problem without coming down stairs. The radio room occupies most of the first floor, and it displays the same thought and attention to detail that Dave has put into his antenna farm. There are 6 1/2 stations (the 1/2 station is a TS-2000 for spotting) with





# K1TTT Hosts HOSARC Operators by Tom Golero continued from page 3

each station dedicated to one contest band (there is no contesting allowed on the WARC band). Each station consists of a Yaseu FT-1000 MP radio, Commander HF-2500 Linear amp, Pentium 4 computer with N1MM logging software, Rig Blaster Pro, Heil Headset, and vibroplex key. All stations have ICE bandpass filters between the radios and amps. After each amp is a coax stub filter to filter out harmonics. The equipment sits on top of home-built tables which have a front section which can be quickly removed to ease troubleshooting of cables and for moving equipment around. Each table has a 240V 20amp outlet as well as two 120v outlets. The radio room has its own circuit breaker panel.

Dave uses track lighting in the room to prevent glare on the computer screens. How's that for planning? Also in the radio room is a refrigerator which he has

unique feature of Dave's station is not the equipment or the layout, it is Dave himself. When we sat down at the radios to

out a late lunch of Pizza to us so we didn't have to leave our post and lose contest time. The contest was perfect for the amount of operators we had and our time constraints, since none of us could stay overnight. Around 9PM we decided to call it quits due to the long ride home.

We thanked our host before we left, and he told us we were welcome to come back, to bring more members, operate longer, and stay overnight. Dave has honored his promise by including me on this email list for upcoming contests, and he has quite a few dates open for us. So if the club wants to operate his station again or if you have your own group who is willing to take the ride out to Dave's place, please let me know, and I will help

arrange your trip.

**2006 North America QSO Party**  
Operators: KC2CBA, KC2ILK, N2BAL, and N2YTF  
Mode: SSB Voice

| Band               | #QSOs         | Points | Sec |
|--------------------|---------------|--------|-----|
| 1.8Mhz             | 7             | 7      | 6   |
| 3.5Mhz             | 55            | 55     | 24  |
| 7Mhz               | 38            | 38     | 20  |
| 14Mhz              | 97            | 97     | 34  |
| 21Mhz              | 43            | 43     | 14  |
| <b>TOTAL SCORE</b> | <b>23,520</b> |        |     |

operate and we looked at all the equipment and contest award plaques on the walls, we were sure that Dave would critique us and stand over our shoulder as

we tried our hand at real contesting. Instead after he gave us a few pointers he went upstairs and let us know that he was just a keystroke away. When Dave lets a team use his station he has only one "rule", operate as much as possible and have fun. It doesn't matter to him if you use your own call or the station's call in the contest, but you

can be assured that many contesters know the K1TTT call. The call is also known to dx'ers because of the packet cluster he runs. At 1:00 PM local time we officially entered the contest and operated with two operators on duty until they wanted a break or when the contest slowed. There were times the contest was intense followed by lulls in the action. Dave brought



Tom Tumino at the controls of a Yeasu FT-1000 at station K1TTT.

stocked with bottled water and soda for those long periods behind the microphone. He evens has throat spray and lozenges for those operators who don't like to use the voice keyer function on the N1MM logging/contest software (N1MM is free so visit <http://pages.cthome.net/n1mm/> to download it for yourself). The most



Jim Shannon logging hundreds of special event contacts made on behalf of HOSARC.



## Club News and Other Ham Radio Happenings

The general membership has approved the expense associated with installing a DSL line in the club shack. Once this project is complete, the club will be able to add IRLP to the repeater, enabling national and worldwide repeater coverage.

HOSARC mourns the passing of Mark Ralin's (KC2OIS) father, Louis Ralin, who passed away after battling a long term illness. Mr. Ralin served in the US Signal Corp during World War II and was the inspiration for Mark to get involved in ham radio. Mr. Ralin will be dearly missed by all. Our condolences to Mark and his family

Club dues are here again. If you haven't paid your dues please do so at the next meeting. You can pay your dues to our Treasurer Steve, WB2KDG.

The club is selling a Kenwood TS-440 with matching power supply and optional filters. If you are interested in purchasing this radio please contact Tom, KC2CBA, immediately.

The club is in the process of holding elections for various officer and board positions. If you are interested in running for office please contact James Rubin.

In Oregon, a 47-year-old man was shot to death after an argument that started on CB radios escalated into a confrontation in a shopping mall parking lot, Vancouver police said. Kenneth Eichhorn of Vancouver died at Southwest Washington Medical Center after undergoing surgery, police said. John W. Loveless, 44, of Vancouver, called emergency dispatchers after the incident to say he was involved in a shooting. Detectives interviewed Loveless, and he was booked into the Clark County Jail on one count of second-degree murder. He was being held without bail. The two men did not know each other before the shooting but had an argument the nature of which had not yet been determined by police.

## Equipment Burn-In by Ken Larson, KJ6RZ



One characteristic of modern semiconductor electronic equipment is something called infant mortality. The failure rate of new electronic equipment is generally very low. However, if the equipment is going to fail, it is likely to do so within the first few hundred hours of operation. Failure within this time period is called an infant mortality failure and is usually caused by a flaw in a semiconductor or other electronic component. Simply having the equipment power turned on is often enough to cause this type of failure to occur. If the equipment does not fail in the first few hundred hours of operation, then it will probably provide many years of trouble free operation.

The consumer electronic industry generally warrants new electronic equipment for 90 days. A new computer, audio equipment, a television, DVD player, or similar equipment that fails in the first 90 days can generally be returned to the store where it was purchased and replaced with a new unit with few if any questions asked. However, if the device fails after the 90 day warranty, then get-

ting it replaced becomes much more difficult.

Understanding infant mortality and 90 day warranties suggests a procedure that probably should be used for all new electronic equipment. When you purchase a new electronic device, turn it on and run it continuously for two weeks. Two weeks will provide 336 hours of operation (14 days x 24 hours/day = 336 hours). Once a day cycle the power. Turn the device off, wait a minute or two, and then turn it back on. If after two weeks, your new equipment is still working, then you are probably through the infant mortality period and can expect years of reliable service. If things go badly instead and your new device fails, then by running the equipment continuously you have forced the failure to occur in two weeks, well within the 90 day warranty period. The problem with not following this procedure is that you can become busy doing other things. 90 days goes by and you have used your new equipment for only a few hours. Your warranty has

expired and you are still in the infant mortality period, not a good situation.

Burn-in procedures are used by most high-tech companies. For example, when I worked for GTE Government Systems, we had to supply the Government with records showing that we had burned in each system prior to delivering it.

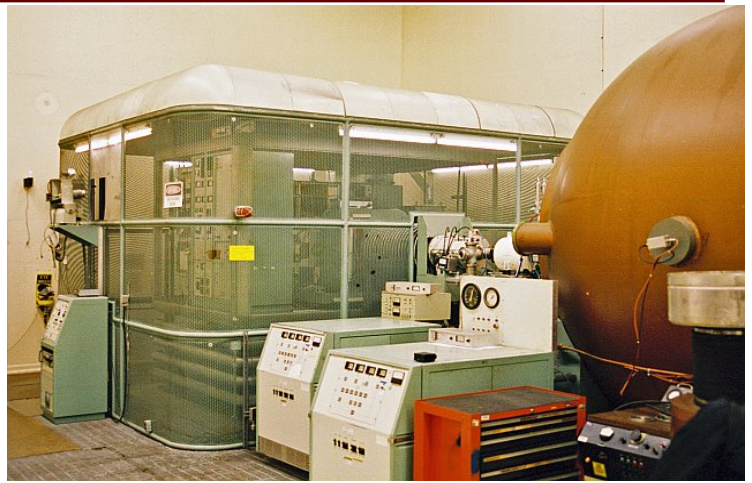
I use this procedure on all electronic equipment that I buy, and it works! Last year I bought a 1 1/4 meter transceiver for ARES/RACES work. In addition to turning on the power, I made a point of transmitting at least once a day; usually just transmitting my call. On the third day of burn-in a problem developed. Occasionally when I hit the push to talk key, the transceiver turned off (completely powered down). Not every time, it was a very sporadic failure, the worse kind. I returned the radio to Ham Radio Outlet and they gave me a new one without any hassle. The new radio made it through the two week burn-in and has been working great ever since.



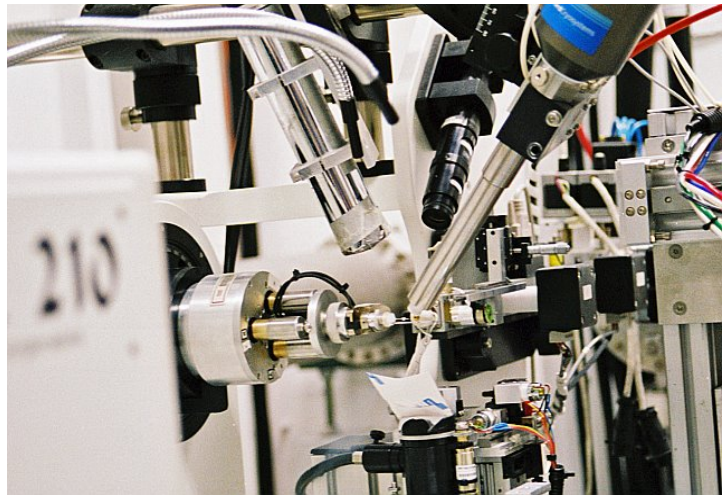
# Brookhaven Lab Tour Photos



*HOSARC members visit secret national laboratory.*



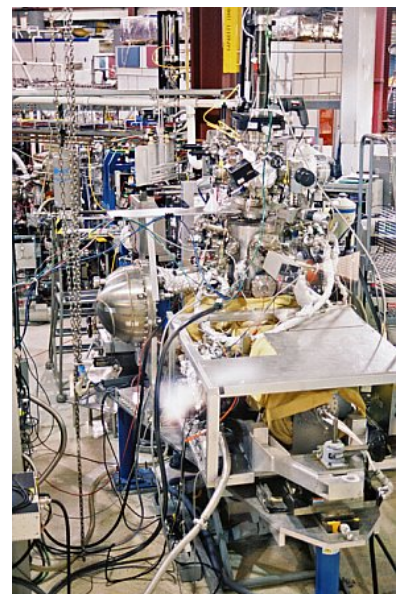
*Tandem Van de Graaf*



*National Light Source*



*Relativistic Heavy Ion Collider*



*Miles of wires and cables.*



# October 2006 Issue of NewsFuse Wins Newsletter of Month Award from ARRL Hudson Division



For the first time in HOSARC history, the club's newsletter was recognized by the ARRL as the best newsletter of the month in the Hudson Division.

The ARRL Hudson Division selected the October 2006 issue of the HOSARC NewsFuse as newsletter of the month. Amateur radio clubs in the Hudson Division compete monthly to be selected as the newsletter of the month. There is stiff competition each month due not only to the number of clubs in the Hudson Division but also due to the fact that so many clubs produce excellent newsletters each and every month.

The following is an exact quote published in the Hudson Division Beacon email edition #67. "The October

2006 award goes to the Hall of Science ARC (HOSARC) for their very professional 'News Fuse'. I am not sure who the editor is but the pictures and layout are superb. Great Job! They notched out both TARA and the Rip Van Winkle ARS which also had great newsletters



*Chairman of the Board, KC2CBA, (left) congratulates NewsFuse editor K2KHV (right).*

this month. Both have won twice in the past year. Congratulations editors and thanks for making your club a much more interesting one."

A special thanks to Hudson Division Director Frank Fallon, N2FF, and Vice Director Joyce Birmingham, KA2ANF, for their continued sponsorship of the Newsletter of the Month Program. Thanks also to all the Section Managers in the Hudson Division who voted for the NewsFuse: Pete Cecere, N2YJZ from Eastern New York, George Tranos, N2GA, from NYC Long Island, and William Hudzik, W2UDT from Northern New Jersey.

HOSARC will strive to continue to issue quality newsletters promoting the hobby of amateur radio.



## AB2UV Guest Speaker at Oct Meeting

Club member Rob Smith, AB2UV, gave a fantastic presentation on remote base operations at the October 2006 general membership meeting. Rob's presentation included great graphics and a live demonstration of how he remotely controls his base radio, a Kenwood TS-2000.

Rob's favorite software for remote control is Ham Radio Deluxe. Not only is this software extremely capable (voice and radio controls) it is also absolutely free! Anyone can download this great application from <http://hrd.ham-radio.ch/> and begin controlling their station remotely.

Imagine sitting in the park with an HT and making DX contacts all afternoon!

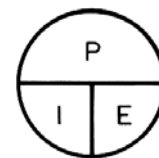
If any is interested in learning more about the possibilities of remote radio control please contact Rob.

Rob is also the club's Station Manager. If you or any of your friends are interested in a tour of the club shack please contact Rob. He is usually at the museum every Saturday delivering the Tech class. Club members should be volunteering to staff the shack on weekends. If

you need a refresher on how to operate the equipment please contact Rob. Check the roster for his email address.



*Rob, AB2UV, shows how to remote control your HF transceiver. Photo by Frank Dinaro, KC2CQR*



# HOSARC Offers Free FCC Technician Class Training

HOSARC has started a free ham radio class at the New York Hall of Science. The goal of the ham radio course is to improve training in communication, science, and ionospheric transmissions.

HOSARC has started a series of training classes preparing anyone interested in taking the FCC technician class amateur radio license. The classes are four weeks in duration and are held on Saturday mornings. They begin at 9 am and end at 11 am at the New York Hall of Science. The first class was scheduled for July 1, 2006.

Students learn about the United States Federal Communications Com-

mission's (FCC) rules and regulations regarding amateur radio, elementary physics, modes of radio transmission, and emergency communications. Along with teaching the science of radio and short

and long distance communication, there is ample time allotted in each classroom session for questions and answers with the instructors. Students will have the unique opportunity of hands-on learning by visiting and using a real working amateur radio station.

If anyone is interested in signing up for one of the courses, or wants more information on becoming an amateur radio operator, please contact Anthony Mampilly at 718-969-3116, [anthonymampilly@gmail.com](mailto:anthonymampilly@gmail.com) or AB2UV at [rob@ab2uv.com](mailto:rob@ab2uv.com)

**Free Amateur Radio Classes**  
Hall of Science Amateur Radio Club

**Anthony Mampilly**  
KC2OLF  
Registered Instructor

**Robert Smith**  
AB2UV  
Accredited Volunteer Examiner  
Registered Instructor

**Dominick Marrone**  
KC2PXA  
Registered Instructor

**Tom Tummo**  
N2YTF  
Accredited Volunteer Examiner

**Lew Puno**  
N2ONW  
Accredited Volunteer Examiner

## HOSARC 2006 TRAINING SCHEDULE TECHNICIAN CLASS LICENSE PREPARATION

| Session | Dates     | Time     | Lesson Plan                   | Class Activity   | Session | Dates     | Time     | Lesson Plan                   | Class Activity   |
|---------|-----------|----------|-------------------------------|------------------|---------|-----------|----------|-------------------------------|------------------|
| Batch 1 | 27-May-06 | 9am-11am | Introduction to Amateur Radio | Tour Radio Shack | Batch 5 | 7-Oct-06  | 9am-11am | Introduction to Amateur Radio | Tour Radio Shack |
|         | 3-Jun-06  | 9am-11am | Chapters 2-3 and Q&A          | HF Demo          |         | 14-Oct-06 | 9am-11am | Chapters 2-3 and Q&A          | HF Demo          |
|         | 10-Jun-06 | 9am-11am | Chapters 4-5 and Q&A          | SSTV/Satellites  |         | 21-Oct-06 | 9am-11am | Chapters 4-5 and Q&A          | SSTV/Satellites  |
|         | 17-Jun-06 | 9am-11am | Chapters 6-7 and Q&A          | Morse Code       |         | 28-Oct-06 | 9am-11am | Chapters 6-7 and Q&A          | Morse Code       |
|         | 1-Jul-06  |          | Final Exam                    |                  |         | 4-Nov-06  |          | Final Exam                    |                  |
| Batch 2 | 1-Jul-06  | 9am-11am | Introduction to Amateur Radio | Tour Radio Shack | Batch 6 | 4-Nov-06  | 9am-11am | Introduction to Amateur Radio | Tour Radio Shack |
|         | 8-Jul-06  | 9am-11am | Chapters 2-3 and Q&A          | HF Demo          |         | 11-Nov-06 | 9am-11am | Chapters 2-3 and Q&A          | HF Demo          |
|         | 15-Jul-06 | 9am-11am | Chapters 4-5 and Q&A          | SSTV/Satellites  |         | 18-Nov-06 | 9am-11am | Chapters 4-5 and Q&A          | SSTV/Satellites  |
|         | 22-Jul-06 | 9am-11am | Chapters 6-7 and Q&A          | Morse Code       |         | 25-Nov-06 | 9am-11am | Chapters 6-7 and Q&A          | Morse Code       |
|         | 29-Jul-06 |          | Final Exam                    |                  |         | 2-Dec-06  |          | Final Exam                    |                  |
| Batch 3 | 5-Aug-06  | 9am-11am | Introduction to Amateur Radio | Tour Radio Shack | Batch 7 | 2-Dec-06  | 9am-11am | Introduction to Amateur Radio | Tour Radio Shack |
|         | 12-Aug-06 | 9am-11am | Chapters 2-3 and Q&A          | HF Demo          |         | 9-Dec-06  | 9am-11am | Chapters 2-3 and Q&A          | HF Demo          |
|         | 19-Aug-06 | 9am-11am | Chapters 4-5 and Q&A          | SSTV/Satellites  |         | 16-Dec-06 | 9am-11am | Chapters 4-5 and Q&A          | SSTV/Satellites  |
|         | 26-Aug-06 | 9am-11am | Chapters 6-7 and Q&A          | Morse Code       |         | 23-Dec-06 | 9am-11am | Chapters 6-7 and Q&A          | Morse Code       |
|         | 2-Sep-06  |          | Final Exam                    |                  |         | 30-Dec-06 |          | Final Exam                    |                  |
| Batch 4 | 2-Sep-06  | 9am-11am | Introduction to Amateur Radio | Tour Radio Shack |         |           |          |                               |                  |
|         | 9-Sep-06  | 9am-11am | Chapters 2-3 and Q&A          | HF Demo          |         |           |          |                               |                  |
|         | 16-Sep-06 | 9am-11am | Chapters 4-5 and Q&A          | SSTV/Satellites  |         |           |          |                               |                  |
|         | 23-Sep-06 | 9am-11am | Chapters 6-7 and Q&A          | Morse Code       |         |           |          |                               |                  |
|         | 30-Sep-06 |          | Final Exam                    |                  |         |           |          |                               |                  |





## Marketplace

If you would like to list a piece of equipment please send an email to the Editor. Good luck and happy hunting.

**Seller: KC2KXC**

**Email: motoshack@optonline.net**

Mark has a number of commercial Motorola radios for sale. All of these radios are capable of covering the ham bands and then some. Mark has a Motorola Astro Saber in excellent condition. The Astro Saber covers 403 MHz to 470 MHz. Mark also has a very rare Motorola GP300 radio that covers the 220 MHz band! Send Mark, KC2KXC, an email if you are interested in his radios.

**Seller: KC2CBA**

**Email: Tomflushing3@aol.com**

Tom has 50 feet of RG-8 coax, brand new in the box from Radio Shack. He is looking to sell it for \$22. If you are interested please send Tom an email.

**Seller: K0SID**

**Email: sidney@sidneyko.com**

Sidney has Yaesu FT50 dual band handheld radio in excellent condition for sale.

This is a solid radio. It comes with dual battery charger (NC-50), two NiMH batteries, and a built-in digital recorder. Asking price is \$250.

Also for sale is a Yaesu FT-847 HF/VHF/UHF transceiver with cross-



band repeat in excellent condition, very clean. It comes with original power cable, hand microphone, and optional voice synthesizer installed. Asking price is \$1,200.

For sale is a Yaesu VX-150 VHF handheld radio in very good condition. Radio is a solid performer. It comes with original battery and wall charger. Asking price is \$100.

Sidney also has a Radio Shack HTX-10, 10 meter FM and SSB mobile transceiver for sale. It is brand new and still in the box. Asking price is \$75.

Motorola Saber I, UHF handheld radio with 12 channels. Radio does not come with battery or antenna. It is a very clean commercial radio in good condition. Asking price is \$75.

Finally, Sidney is selling his Sony Vaio Notebook VGN-T250. It is in good condition. Laptop is ultra portable with a long lasting battery and was recently upgraded with 1 GB RAM. Deal includes power supply and 5.0 MP Sony W1 digital camera. Asking price is \$1,600.

**Seller: HOSARC**

**Email: tomflushing3@aol.com**

The club is selling a Kenwood TS-440 including matching power supply and all optional filters. The club is asking \$500. The radio has never been used.

The club is also selling an Icom 1.2 Ghz repeater, including repeater, controller, duplexer, and amplifier. The club is asking \$2,500 for the entire package.

*Welcome to the following new members:*

David Chang

Ronald Hinds

Joe Raznik, KC2QDC

Steve Nitzberg, KC2QFJ

Sergio Rodriguez, WB2SEB

Frank Dinaro, KC2CQR

# November 2006

| Sun | Mon | Tue                          | Wed                   | Thu | Fri | Sat |
|-----|-----|------------------------------|-----------------------|-----|-----|-----|
|     |     |                              | 1<br><i>Club Net</i>  | 2   | 3   | 4   |
| 5   | 6   | 7<br><i>Board Meeting</i>    | 8<br><i>Club Net</i>  | 9   | 10  | 11  |
| 12  | 13  | 14<br><i>General Meeting</i> | 15<br><i>Club Net</i> | 16  | 17  | 18  |
| 19  | 20  | 21                           | 22<br><i>Club Net</i> | 23  | 24  | 25  |
| 26  | 27  | 28                           | 29<br><i>Club Net</i> | 30  |     |     |

## Schedule of Events

- November — ARRL Sweepstakes; K1TTT Competition Station Visit; ARRL Hudson Division Awards Dinner
- December — Holiday Party; Club Vote
- January — ARRL VHF Sweepstakes
- February — ARRL International DX
- March — Timonium Hamfest
- April — Kit Building Night
- May — Dayton Hamfest
- June — Field Day; HOSARC Hamfest
- July — Fishing Trip; BBQ Party
- August — No Meeting
- September — VHF QSO Party
- November — ARRL Sweepstakes



## Chairman's Report by Tom Golero, KC2CBA

Hello!

Thank you to all who came out to the October general meeting. At the meeting we voted in 5 new members which brings our club membership to 80. Our guest speaker was our own Rob Smith who gave us a presentation on how to control your radio remotely using a free program called Ham Radio Deluxe. Rob had his laptop linked to a wireless access point in the museum cafeteria, and he showed us how he was able to control his Kenwood TS-2000 via a VOIP link. I hope to hear some club members check in to our weekly net using this remote control technique.

We need your input on the project for our Kit Building night scheduled to be held in April 2007. My suggestion is to build fox hunting equipment. After the members build their direction finding equipment, the club could hold a fox hunt in Flushing Meadow Park. The project could be twofold: those members who like to hunt could build the equipment to locate the fox, and those who don't could

build the transmitter and auxiliary components. I think it would be a lot of fun. Please visit <http://home.att.net/~jleggio/projects/rdf/rdf.htm> for more information. Any reasonable suggestion will be considered.



### ***The official HOSARC QSL card***

We need to make a decision soon, so please let me know what your preferences are.

Also, we need all of you to help find guest speakers for our general membership meetings. I have been finding the majority of our guest speakers over the

past few years. It's the goal of the Board to keep the meetings interesting, informative, and lively. I have contacted potential guest speakers from NYC Wireless and the Tesla Society. Please help in this regard. We need more speakers! If anyone has any contacts in the NYPD Communications Division we would like to contact them too.

Last and certainly not least the club station is in desperate need for volunteers. Rob Smith, AB2UV, has volunteered to give shack demonstrations on the weekends to help members fulfill their obligation to be control operator of WB2JSM at least one weekend a year. I hope that some of the more senior and experienced members will help Rob! I will email and phone each of you until we have a full roster of control operators; so be prepared. We will try to pair members with experience operators as best we can.

I hope the November meeting continues the trend of good turnouts. I look forward to seeing all of you at the next meeting. 73, Tom





**NEW YORK HALL OF SCIENCE  
AMATEUR RADIO CLUB**

36 Technicians  
13 Generals  
3 Advanced  
27 Extras

**NewsFuse Editor:  
Felix Lam, K2KHV**

***Do you have a story?  
Contact the NewsFuse Editor.***



*The Hall of Science Amateur Radio Club, HOSARC, was founded in 1972 and is affiliated with the New York Hall of Science, a hands-on science and technology center located in the historic Flushing Meadows, Corona Park in Queens, New York. HOSARC club members maintain and operate the amateur radio exhibit located in the lower level of the center's central pavilion. The exhibit is a fully functional radio shack, equipped with top-of-the-line, modern amateur radio equipment. The shack operates all modes on all HF, VHF, and UHF bands. Visitors to the Hall of Science can operate the kilowatt HF station, WB2JSM. The club also operates the WB2ZZO repeater on 444.200 with a positive shift and a PL tone of 136.5. You do not have to be a club member to use the repeater; all are welcome. Please join our club nets which occur every Wednesday evening at 9pm. Net control operators are Ken, K2JLK and Bernie, K2ZIR. The club meets at 8pm every second Tuesday of each month in the cafeteria of the New York Hall of Science. Come on down, and meet the gang!*



## Amateur Radio Operator's Code of Conduct

The Code has appeared in every issue of the Radio Amateur's Handbook since 1927.

The radio amateur is:

**CONSIDERATE**, never knowingly operates in such a way to lessen the pleasure of others.

**LOYAL**, offers loyalty, encouragement, and support to other amateurs, local clubs, and the American Radio Relay

League, through which Amateur Radio in the United States is represented nationally and internationally.

**PROGRESSIVE**, with knowledge abreast of science, a well-built and efficient station, and operates above reproach.

**FRIENDLY**, slow and patient operating when requested; friendly advice and counsel to the beginner; kindly assis-

tance, cooperation, and consideration for the interests of others. These are the hallmarks of the amateur spirit.

**BALANCED**, radio is an avocation, never interfering with duties owed to family, job, school, or community.

**PATRIOTIC**, station and skill always ready for service to country and community.



**The HOSARC Board of Directors:**

Tom Golero, KC2CBA, Chairman  
Dave Ellenberg, WA2KWP  
Sidney Ko, K0SID

Alvin Levine, KB2SDX  
Lenny Menna, W2LJM  
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*Secretary*

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