



HOSARC Road-Trip: Newington



Early on the morning of February 16, 2006, 11 HOSARC members met in

road, keeping in touch with each other every mile of the way on the output fre-

quency of the repeater. We coordinated rest stops, travel directions, and arrival time via radio.



HOSARC arrives at ARRL HQ. From L to R: Mitch, KC2MBN, Steve, WB2KDG, Pete, W2IRT, Mark, KC2OIS, Rich, KC2OSF, Jim, N2BAL, Allan, AE2J, Tom, KC2CBA, Rob, AB2UV, and Felix, K2KHV.

the parking lot of a White-stone, Queens mall to begin the 2.5 hour pilgrimage to ARRL HQ in Newington, Connecticut. As usual, there was a convoy of HOSARC vehicles on the

campus comes quickly into view. It consists primarily of two distinct buildings: the HQ building, which is the larger of the two, and the Hiram Percy Maxim Memorial building, which

direction finding and radio "fox hunting" is invited to join the group, which calls itself, LITHARC (Long Island Transmitter Hunters ARC). Information about LITHARC can be found in the Yahoo Groups list under LITHARC. All appli-

contains the actual WIAW station, towers, and equipment. Considered by radio operators as the Mecca of amateur radio, ARRL HQ was not a disappointment. Behind the modest exterior, HQ contains every activity of the ARRL: the production of QST magazine, the coordination of Washington DC politics and lobbying, the management and coordination of a large national organization, and the operation of the busiest



ARRL HQ tour guide Norm Fusso, W3IZ, shows collection of antique radios as he discusses the history of amateur radio.

Long Island Fox Hunt Is On

You may be asking yourself, "There are foxes on Long Island?" Besides the ones you may see in the malls on the weekends, hams also seek out RF transmitting foxes.

The hobby goes by a number of different names: fox

hunting, t-hunting, radio direction finding, and radio transmitting hunting.

A newly re-organized hidden transmitter hunters group is active and seeking new participants. Anyone interested in learning more about the activity of radio

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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>

Pilgrimage to ARRL HQ and W1AW continued from page 1

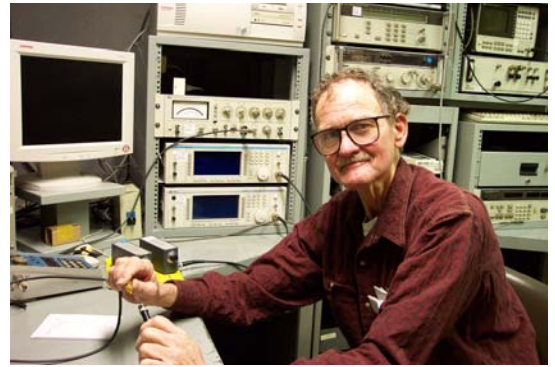
QSL bureau in the world including the certifying of almost every radio award available.

ARRL staff member, Norm Fusso, W3IZ, gave HOSARC a personal, behind-the-scenes tour of the facility. Norm personally introduced us to many of the ARRL staff. We visited the equipment test laboratory, spoke with staff that conduct actual tests on new amateur radio equipment, saw where the different departments put the QST magazine together, watched staff sort QSL cards from around the world in the QSL Bureau, and even said "hello" to the accounting department folks.

Visiting ARRL was also an opportunity to personally carry QSL cards for review by the ARRL awards staff. Pete, W2IRT, brought with him more than 300 QSL cards for checking by the ARRL Contest Awards Section. We met with Bill Moore, NC1L, who runs the DXCC Awards Desk. Bill knew

how important these cards were to Pete, and Bill was kind enough to check all of Pete's cards and return them to him before the end of our guided tour. Pete's deck of QSL cards plus more than 100 Logbook of the World contacts brought him to 1,275 contacts for the DXCC Challenge. Pete also achieved DXCC for both 17 and 30 meters, which brings him up to his 7th confirmed DXCC! These cards also gave Pete his 150 contacts endorsement for CW as well as 40 meters.

At ARRL, HOSARC members also visited the QSL Bureau. Different districts across the country send and receive QSL cards from various DX entities around the globe through the ARRL QSL bureau. It is here that an entire wall of shoe-box containers, organized by country prefix, is filled with QSL cards waiting to be sent to their final destination. Hams around the world anxiously wait for their confirmed contacts to arrive in the mail. There is no more satisfying feeling than getting a thick envelope in the mail from the QSL Bureau filled with your



Jim, N2BAL, shows the ARRL Techs how it's done at the HQ Equipment Test Lab.

contacts.

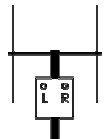
The trip climaxed with a visit to the W1AW station. Everyone on the trip had a chance to operate in one of the station's several state-of-the-art radio suites. Each suite was equipped with a top of the line transceiver. Pete, W2IRT, made more than 70 contacts on a Yeasu FT1000MP Mark V. Rob, AB2UV, made contact with his cousin Jason, KB2SDR, who lives in South Dakota using an Icom 756 Pro-III. The station had four towers, each with several stacked arrays. Everyone received a beautiful Hiram Percy Maxim Memorial Station operating certificate.

The visit to the ARRL HQ was another great HOSARC trip!



ARRL HQ is a living museum of everything amateur radio. Mitch, KC2MBN, and Tom, N2YIF, enjoy viewing the complete collection the ARRL Handbook.

Radio Direction Finding Forms Local Club continued from page 1



cants are approved for membership. LITHARC is using the yahoo group as a communications hub for club members and anyone interested in joining the organization.

Of course, the real fun is not joining the yahoo group but instead joining the group on a real hunt! Recently hunts have been held on Friday nights within a few miles either side of the Nassau-Suffolk County line. The hunters are always willing to give rides to anyone interested in joining them on a hunt.

There is very little equipment initially needed to go hunting. Anyone can begin

fox hunting with their favorite handie-talkie. As you progress in the hobby, you

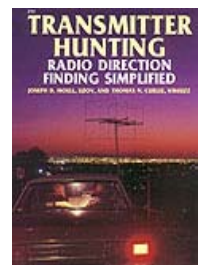


KE7DRD finds her first hidden transmitter with a homebrew RDF device.

can build radio direction finding devices. As you can see from the photo, KE7DRD built one such device from a tape measure and pvc pipe!

There is always room for more people on a LITHARC hunt. Grab your HT and join the fun!

For more information, contact Larry WA2SUH at wa2suh@aol.com



Learn all about the hobby of fox hunting in this book. Send an email to books@homingin.com



Swap-n-Shop

A new feature of the HOSARC NewsFuse is the Swap 'n Shop column. In this column the NewsFuse Editor will list any ham related equipment, including computers, that HOSARC members would like to sell, swap, or trade. There are no warranties or guarantees implied by HOSARC with these postings. If there is a piece of equipment that is listed that you are interested in, please contact the seller directly. 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 Mo-

torola 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 Mo-



torola 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: K2KHV

Email: k2khv@hosarc.org

Felix has 2 x 512MB Samsung memory sticks: 184 pin, DDR SDRAM, PC3200 MB/sec. Email him an offer.

ARRL Road-Trip Photo Gallery



There are thousands of great QSL cards waiting to be processed at the bureau on any given day.



The W1AW station manager Joe Carcia, NJ1Q.



Behind the W1AW station is a full workbench where everything is repaired on-site.



Pete, W2IRT, and Rob, AB2UV, operate W1AW.



Over a million cards processed in 2005!



QSL cards are still processed the old fashioned way using boxes arranged by country code.



New Member Focus: AB2UV

Robert William Smith, AB2UV, was born on Veteran's Day in 1969. Rob became a ham after taking a Technician Class licensing course at HOSARC in 1994. Rob has progressed through the ranks and passed the Extra Class license exam in December 2005.

Rob enjoys making HF voice sideband contacts the most. At home he operates a Kenwood TS-2000 with a Heil microphone. He makes most of his HF contacts with a home made dipole and a Cushcraft vertical. He stills remembers his first HF contact with a station in Sydney, Australia.

In addition to HF, Rob enjoys chewing the fat on local FM repeaters. His favorite repeater is WB2HWW on 440.700 with a tone of 114.8. WB2ZZO is his second favorite on 444.200 and a tone of 136.5.

Rob, who usually spells his call phonetically as Already Been 2 Ultra Violet, was a CB operator before becoming a Ham. For years Rob rag-chewed with a bunch of local of CBers until they realized that the only way to transmit with more power was to become a licensed ham. Some of his CB buds

who also became hams are his cousin Jason who is now KB2SDR and his buddy Don who is now WX2USA. Although Rob did operate CB mobile, he favored base station CB radios like the Cobra 142 and the Cobra 2000.

technical skill necessary to be a good operator.

Rob is currently a telecom cabling technician. He installs low voltage cable and phone lines. Although he enjoys his job, he is looking for a career change in 2006.

His other goals include making some satellite contacts and getting his old packet station up and running again.

Rob's other hobbies include paint-ball, fishing, mountain biking, and website design. In addition to designing and maintaining a paint-ball (www.ny-paintball.com) website with more than 500 members, Rob is also the secret behind the successful WB2HWW (www.wb2hww.com) website. He welcomes anyone to visit www.ab2uv.com which is dedicated to his favorite hobby, ham radio.



Rob Smith, AB2UV, at his operating position in Queens, NY.

Like the good-old CB days, Rob likes ham radio because of the people who make up the hobby. Some of his favorite people are ham radio operators. He enjoys the hobby's camaraderie and the

Welcome to HOSARC, Rob! We hope you like it here. By the way, who is that woman on the poster in your shack?

N2YTF Works Swedish Sub Operating as SL8SUB by Tom Tumino



Welcome Aboard!

I've been a ham for more than ten years now, and I've made thousands of contacts, but there is one that I will certainly never forget. It was the night of August 21st, 2004, and I was with my YL, KC2JOS, and FT-817 in Stockholm Sweden. While touring the area that day I daydreamed of making contact with the active duty Swedish submarine HMS Uppland, (SL8SUB) which was in town for a



Tom's YL, Liz, KC2JOS, with SL8SUB Swedish operator Kjell, SM6DQR.

celebration of military submarines. On the way back to the hotel that night, I convinced the YL to walk with me along the harbor in the hope that I could contact the Uppland on 2m or 20m SSB, even though activity was not scheduled until the next day. To my surprise, on my second call on 2m SSB I contacted SL8SUB from about 100 feet away. I nearly fainted and the sub amateur radio operator Kjell Johansson, SM6DQR, was shocked to hear an American call, QRP 2m SSB portable absolutely DFQ over the pileup. After a fine 30 min QSO on our way

walking back to the hotel, Kjell invited me and the YL aboard the sub as soon as we could return there. I asked if I could bring him any supplies or food and he laughed, "Tom, we even have our own bakery aboard". We ran to meet the sub at Stockholm's harbor close to midnight and were ferried past a well armed Swedish guard. Kjell and company showed us around the submarine and treated us to chips and dip. I even touched a working torpedo.

I will never forget the hospitality and international goodwill shown to us on that day.

Royal Swedish Sub HMS Uppland (SL8SUB)



Tom Tumino, N2YTF, made contact with amateur radio station SL8SUB operating inside the HMS Uppland. The HMS Uppland is one of three submarines that make up the Royal Swedish Navy's Gotland Class. The Gotland Class is one of the world's most modern conventional submarines. It is designed and built to meet all possible submarine missions: anti-shiping operations, ASW-missions, forward surveillance, special operations and mine-laying tasks. The Gotland Class can carry a powerful array of wire guided and homing weapons, including newly developed multipurpose homing torpedoes, missiles and mines.



HMS Uppland underway in North Sea.

The Gotland is the world's first submarine class in operation with an air independent propulsion (AIP) system. The Stirling AIP system, combined with a number of unique features including overall low signatures, extreme shock resistance and a powerful combat system, provides the ultimate in non-nuclear submarine technology.



Tom Tumino, N2YTF, visited the torpedo room of the HMS Uppland.

The use of automation and remote control has

resulted in a crew of only 25. For instance, only one operator is needed to steer the submarine in depth and course. When ordered the steering will be done by computer.

The lower level of the forward compartment contains the torpedo room, with weapons handling system and reload racks, a battery space and the auxiliary machinery space. The forward upper level contains the control room, a radio room, an electronic equipment space, living quarters, mess and galley area, toilets and washrooms. The lower level of the aft compartment contains diesel generators and a second battery space. The upper level contains the electrical equipment space with propulsion control consoles, inverters, converters, alternators, electrical control consoles

and battery monitoring equipment. The after compartment also contains the Kockums Stirling AIP system for air independent power-generation, the main motor and auxiliaries. The sail contains a combined search and attack periscope, masts for

communications and surveillance, radar antenna and the air induction mast. The periscope is the only hull-penetrating mast. The Gotland Class employs a slow-turning propeller. Four control surfaces in X-configuration are fitted aft, which together with two on the sail provides excellent maneuverability.

SL8SUB was the call-sign used by the special event station set-up inside the sub HMS Uppland commemorating the 100th anniversary of the Royal Swedish Navy's submarine service. While there have been special event stations set-up inside museums and de-commissioned submarines, this was the first time ever that an amateur radio station was active inside a vessel still in use by the military. The special event station operated CW and SSB on HF and VHF bands.



The HMS Uppland is 60 meters long and displaces 1,500 tons. It can stay submerged for weeks on end.



Greater Baltimore Hamboree and Computerfest 2006

HOSARC is again making the road-trip to Timonium, Maryland to attend The Greater Baltimore Hamboree and Computerfest, sponsored by the Baltimore ARC. Although not as large as Dayton, it is a big hamfest. If you're interested in going call Tom, KC2CBA.

We are hoping this year as many members as possible drive their cars so that we could have an HF mobile contest. I per-

sonally will be taking my HF transceiver off my desk at home and sticking it temporarily in my car for the trip down. We hope you can make the trip too.

For Further Information:
Check out our web site at
WWW.GBHC.ORG
Write to us at GBH&C • P.O. Box 95
Timonium, MD 21094-0095
Call us at: 410-HAM-FEST (426-3378)

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MARCH 25 & 26, 2006
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Timonium, Maryland
Exit 17 off I-83 North



April 2006

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

Schedule of Events

- March 25th — Timonium Maryland ham-fest and HF mobile contest.
- April — “Skills Night” at General Membership Meeting.
- May — Jonathon Taylor Echolink Inventor Guest Speaker at Meeting.
- June — Field Day, HOSARC ham-fest, and Special Fishing Trip
- July — IARU HF World Championship.
- August — ARRL UHF Contest.
- September — ARRL VHF QSO Party.
- October — HOSARC ham-fest.
- November — ARRL November Sweepstakes.
- December — Holiday Party.

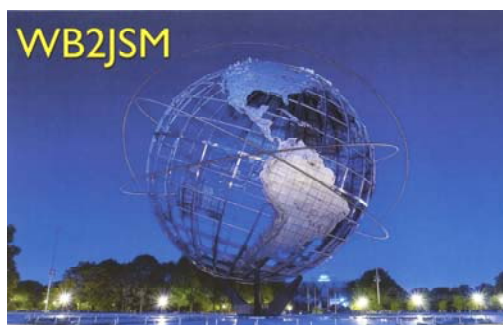


Chairman's Report by Tom Golero

Hello! Winter is starting to fade, and it's time to start making plans for the warm weather ahead of us. Field Day (FD) is only three and half month's away. This year, HOSARC FD will focus on those who haven't participated in this event before. Seasoned veterans are needed to show newcomers what to do.

FD is one of the most important events the club participates in annually. It gives us the opportunity to get to know one another in relaxed and fun atmosphere, and it gives us a chance to operate together. There are only so many people who can fit in the station or share a ride to a club event but at field day the entire club can participate. FD runs from 2pm Saturday June 24th until 2pm Sunday June 25th. All we ask is that you come down between those times and operate for an hour or two. We also need members to help set up at 7am on Saturday. Tear down is Sunday at 1pm. We need fresh bodies for tear-down on Sunday; FD participants are exhausted from their 24 hour non-stop operation.

The club supplies some of the gear for FD, but you are encouraged to bring down your own equipment and see how it performs in the field. I recommend everyone become familiar with the rules for FD 2006. There are opportunities for the club to score extra points by using different modes, copying the bulletin, and having non-hams under the age of 18 make



The official HOSARC QSL card.

contacts on behalf of the club. The time to practice or plan to score bonus points is now, not the day of the event.

Anyone interested in being on the FD

planning committee or just attending FD should either see me at a meeting, or e-mail me as soon as possible.

Warm weather also means work parties. Tom Tumino, N2YTF, is our Technical Committee Chairperson who will be leading these work parties. If you see an email calling for volunteers from Tom please respond; he can't do it alone.

As Chairman, I have assigned Board members to various committee positions. I know that they cannot fulfill their duties without your help. If there is a committee that interests you, please contact the appropriate chairperson. Remember the club functions when you make it function.

The Board has all the general meetings planned until June. However, we need your help in planning the meetings for next year. If you have any ideas now is the time to start planning.

I hope to see all of you at the next meeting.

73, Tom



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

Allan Koenigsberg, AE2J, President
Bernard Stein, K2ZIR, Vice President
Howard Weissman, WB2HLW, Secretary
Steve Greenbaum, W2KDG, Treasurer

Felix Lam, K2KHV, NewsFuse Editor

E-mail: K2KHV@HOSARC.ORG

***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

Art Breen, WA2WQV

Dave Ellenberg, WA2KWP

Sidney Ko, KOSID

Alvin Levine, KB2SDX

Lenny Menna, W2LJM

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