



# SIGNAL



de N1NC

November 2000 Volume 9 Number 9

## This Month's Meeting

This months program will be a card sort for the W1QSL Bureau. We hope to get lots of cards sorted for them and maybe find a few of our own in the process. The more the merrier and the more cards we can sort so bring a friend. We are planning to have hotdogs available for those who need some nourishment before/during/after all that hard work.

Bring your short Show-and-Tells to the meetings. They are always welcome. We want to know what things people are working on.

We gather at Tiny's for breakfast Saturday mornings at 8:00 AM. We sit in the back dining area.

## New Member

Welcome to new member John Clemmer W4LVG from Harvard MA. John's special interest is HF-CW.

## Road Cleanup

The October road cleanup got preempted by two communications events that day. With the Groton Town Forest Race and the BayState Marathon both going on that day there was no way to also run a cleanup. We will do our last cleanup of the year the Sunday after the club meeting. Hope to see a bunch of you there.

We meet at the Groton school parking lot at 9:00 AM. The cleanup takes about one hour and with eight people the division of the road is easy. Come

out and join us for a leisurely Sunday morning stroll.  
Stan KD1LE

## Breakfast at Tiny's

The past few weeks have seen a great crowd at Tiny's for Saturday breakfast. Truly wall to wall across the dining area. Many discussions going on (all at once). Some of us head out for fox hunting from there.





### Last Month's Meeting

Last month we had a full program. The announced presentation was on Radio Direction Finding and Fox Hunting By Ralph KD1SM and Stan KD1LE. The presentation covered many of the aspects of fox hunting and RDF. They recently presented this program at the Boxboro Convention and are scheduled to present at several area clubs in the coming months.



The second presentation which was virtually another full presentation was by Les N1SV with a demo of software to model propagation based on your antenna arrangements and the geography of your area. This could have been an entire presentation and those who stayed closed up after 10:00PM.

### Board of Directors Meeting

The Board meeting this month covered the regular things like the Treasurers Report. We received a letter addressed to the membership from the Pepperell Parks and Recreation Commission thanking us for the donation towards chairs for the Community Center.

We went over the plans for the raffle to start at this months meeting.

The future purchase of additional PC boards for the FoxFinder kit was also approved.

We continue to seek suggestions of topics or particular presentations that we might try to do.

### Statewide SET

November 4th was the statewide SET in Massachusetts. The overall scenario was a strong earthquake in southeastern Massachusetts. Amateurs across the state activated emergency nets to test communications. Local ARES or RACES organizations added local themes to the event. Some were a missing person search in southeast Mass, a downed aircraft search based on radio direction finding on a training frequency of the Civil Air Patrol near the frequency used by aircraft emergency location transponders, and others.

Below are the participants in the SET 'aircraft' search somewhere in the Stow area after the successful hunt. Ralph KD1SM and Stan KD1LE are on the right end.



## Presentation Preparation Help

If you would like assistance preparing a presentation, several members have volunteered to help. They can review a draft presentation and/or help produce the presentation materials. See Stan, Erik or Ralph if you are interested in some assistance.

## From The ARRL Letter

### FCC INTERVENES IN ANOTHER POWER LINE INTERFERENCE CASE

The FCC has written a Wisconsin electric utility as a result of complaints of suspected power line interference filed by two Iowa amateurs. The FCC intervened after Alliant Energy of Madison indicated that it already considered itself to be in compliance with applicable state and federal laws. The FCC explained the utility's obligations under its Part 15 rules and gave the company 30 days to look into the situation and report back to the complainants.

The FCC's intervention October 27 stemmed from harmful interference complaints filed by James L. Spencer, W0SR, and Frederick M. Spinner, W0FMS, both of Cedar Rapids, Iowa. The ARRL also has been in touch with Alliant Energy on behalf of the two ARRL members in an effort to resolve the matter.

In response to an inquiry from ARRL Lab Supervisor Ed Hare, W1RFI, Steven Baker, Alliant's general manager for customer operations, said his company "cannot financially justify making major system changes or investments to address problems, which are understood to be incidental radiators with no harmful interference as per FCC requirements." Baker said several of the RFI problems in Spencer's area were traced to "fish tank heaters, doorbell transformers and other devices" not under the utility's control. "The nature of the RFI in Mr. Spencer's case is intermittent and at frequencies which have no effect on the public general broadcast frequencies," Baker said.

Spencer told the ARRL that he's been working for several years to resolve power line noise problems and has logged dozens of contacts with the utility. While he reported getting good customer service early on, he says the level of service has declined lately. Spinner, who contacted the utility more re-

cently, said he's received no indication that Alliant intends to correct his problem and, in fact, suggested that he might have to live with it.

The ARRL has offered to assist all parties in reaching a satisfactory resolution. The FCC also suggested that Alliant contact the ARRL for additional guidance on dealing with RFI involving amateurs.

The FCC Consumer Information Bureau's Sharon Bowers told Alliant that even interference to a limited range of frequencies constitutes harmful interference to a licensed service. The FCC pointed out that the utility must not cause harmful interference to licensed services, and, if it does, should locate and correct problems within a reasonable time. The Commission requested that Alliant advise the complainants within 30 days of the steps it is taking to correct the reported interference problems.

Last year, the FCC intervened in the wake of long-standing RFI complaints from several West Coast amateurs who claimed they were receiving harmful interference from Pacific Gas and Electric power lines or equipment.

The ARRL Technical Information Service offers more information at <http://www.arrl.org/tis/info/rfi-elec.html>.

### NEBRASKA CLUB TOPS FREQUENCY PROMOTION COMPETITION

The Ak-Sar-Ben Amateur Radio Club of Omaha, Nebraska, has been chosen as the winner of the Frequency Amateur Radio promotion competition. The Nebraska club topped a list of six Amateur Radio organizations that were selected to receive prizes for their efforts in spreading the word about Amateur Radio in conjunction with the movie Frequency, which uses ham radio as a central plot device.

The top prize ICOM IC-746 HF-VHF transceiver donated by ICOM was among several prizes pledged by manufacturers for the clubs that did the best job of promoting Amateur Radio at a local theater screening Frequency. In addition, the ARRL donated the choice of a 2000 edition of The ARRL Handbook for Radio Amateurs or Handbook CD-ROM to each of the 25 clubs that entered the competition.

The second place winner was the Bay Area Amateur Radio Club in Bay City, Michigan, which will receive an M2 17-30 LP 7 log periodic antenna. Taking third place was the Austin Amateur Radio Club in Austin, Texas, which won an ADI AR-147+ 2-meter mobile transceiver.

Winners were selected based on each club's written description of its promotional activities. Prize awards were determined by a panel of representatives of the manufacturers and suppliers who donated to the prize pool. The ARRL agreed to receive submittals for the competition.

Frequency's far-fetched plot involving communicating across time offered a unique opportunity to promote Amateur Radio in communities across the country. Shortly before the movie's release last April, Amateur Radio industry representatives joined with the ARRL to sponsor the competition for clubs.

With an enthusiastic show of support from theater management, the top-ranked Ak-Sar-Ben club put up a first-rate, professional-quality display booth and wowed moviegoers at the 20 Grand Theater in Omaha. Complete with a Heathkit transceiver similar to the rig used in the movie, club members demonstrated a variety of modes and Amateur Radio technologies, letting moviegoers make HF contacts, track moving vehicles with APRS or see themselves on SSTV (reportedly a big hit with the younger crowd). After the event ended, theater management asked the club to leave behind as much of the display as it could—excluding the radios and the computers, of course—so more theatergoers could learn about Amateur Radio.

Capitalizing on its Frequency PR effort, Ak-Sar-Ben club members set up a Technician license class shortly after the event. Club PR Chairman Bill Newman, K0NSA, says that everyone who turned out for the class did so as a result of having visited the theater display.

Other prizes were provided by Cable XPerTs, Heil Sound, Alpha Delta, International Antenna and Alinco.

Frequency was directed by Gregory Hoblit. In the movie, a long-dead father (played by Dennis Quaid) and his adult son (played by Jim Caviezel) meet up via ham radio during the mother of all sunspot cycles. Eventually, father and son conspire in efforts

to change the past. For those who still have not had a chance to see the movie, Frequency now is out in home video.—Jennifer Hagy, N1TDY

## **NEW NORTH AMERICAN 145 GHZ RECORD CLAIMED**

A new North American claimed record at 145 GHz was set November 6 when Brian Justin, WA1ZMS/4, and Geep Howell, WA4RTS/4, established two-way contact over a path of 34 km. Justin reports that the CW signals were weak but able to be copied. The transmitter power on each end was around 5 mW. ICOM R-7000 receivers were used for IFs. WA1ZMS was on the Blue Ridge Parkway in FM07fm. WA4RTS was in Lynchburg, Virginia, in FM07ji. "No receive margin was to be had on the WA4RTS end, so we reached the limit of what we can do for now with the exception of weather conditions," Justin said.—Brian Justin, WA4ZMS/4

## **ALL-HAM CREW SETTLES IN ABOARD ISS**

The all-ham crew of US astronaut and ISS Expedition 1 Commander William "Shep" Shepherd, KD5GSL, and Russian cosmonauts Yuri Gidzenko and Sergei Krikalev, U5MIR, now is aboard the International Space Station. After blasting off from Baikonur Cosmodrome in Kazakhstan October 31, the crew arrived at the ISS early November 2 aboard a Soyuz vehicle that will remain docked with the space station. "Give us a fast ship," Shepherd—a Navy captain—was quoted as saying before the launch. Shepherd, 51, is only the second US astronaut to go into space aboard a Russian launch vehicle.

The Soyuz lifted off from the same launch pad where the space race began 43 years ago last month with the launch of the Sputnik 1 satellite. Not long after arriving aboard the ISS, Shepherd asked for and was granted at least temporary permission to dub the new space outpost "Alpha." In a NASA interview, Shepherd said the ISS will give humans "unique access to the space environment where we hope we can do very interesting and productive research." But he and the other Expedition 1 crew members also say they view the ISS as a stepping stone on the pathway to human habitation of space. "If we don't have this progress with this space station, it means that humans in space are pretty much destined to stay close to the Earth, and I don't think that's what humans are about," Shepherd said.

The Expedition 1 crew's four-month stay in the station will begin the permanent human habitation of space. NASA said the crew's first tasks would be to activate the station's food warmer, set up the sleeping quarters and perform communications checks with flight controllers in the US and Russia.

"This is a huge, huge event," said US Astronaut Frank Culbertson, who directed the joint US-Russia program to put American astronauts aboard the Russian Mir space station in the 1990s. Culbertson is set to command a space station mission of his own next year. Yuri Semenov, who heads the Russian Energia company that built the Russian ISS modules, called it "a historical, remarkable day." The crew has a busy schedule that primarily involves getting the ISS up and running for future research activities.

Amateur Radio operation is not expected to commence until mid-month, although the crew is said to be enthusiastic about firing up the initial Amateur Radio on the International Space Station--or ARISS--gear. Once installed temporarily aboard the Zarya module, the equipment will provide FM voice and packet capability on 2 meters. Tentative operating frequencies are: Worldwide downlink for voice and packet, 145.80 MHz; worldwide packet uplink, 145.99 MHz; Region 1 (Europe) voice uplink: 145.20 MHz; Region 2 and 3 voice uplink, 144.49 MHz. Crew members may use their personal call signs or one of the "club station" call signs issued for ISS use--NA1SS, RZ3DZR, or DL0ISS.

The Keplerian elements bulletin from ARRL now includes data for the International Space Station. Expedition 1 is scheduled to leave the station next February, when the three-member Expedition 2 crew arrives on STS-102. When it's completed in 2006, the ISS will be one of the brightest objects in the night sky and be as roomy as a jumbo jet. For ARISS information and updates, visit the ARISS Web site, <http://ariss.gsfc.nasa.gov/>.

## **AMATEUR RADIO RESPONSE TO ARIZONA FLOODING CONTINUES**

Amateurs in Arizona so far have logged nearly two weeks of support for American Red Cross relief efforts in the wake of a double-whammy of flooding. All 1200 residents of the town of Wenden--some 80 miles west of Phoenix--had to be evacuated last weekend. Some residents had just finished clean-

ing up their homes after flash flooding a week earlier.

Red Cross volunteer and ARES Emergency Coordinator Dave McCarthy, KC7AYX, reports that over the past 12 days, Red Cross shelters and service centers have been opened and moved as the affected area was hit by additional rain. More than one inch of rain fell October 27 and 28 in Wenden, which normally sees a fraction of that this time of year. McCarthy says hams have been riding along with the four Red Cross emergency response vehicles being used to supply food and blankets to the affected areas.

Flooding in Wenden began October 21, when heavy rainfall swept into the normally arid Centennial Wash--a river bed that only fills during storms. Gov Jane Hull has declared a state of emergency, and the National Guard has been called in to assist. McCarthy said that during the first three days of the operation--which began October 22--up to two dozen hams from Yuma, La Paz, Mohave and Maricopa counties responded to requests to assist with communications. McCarthy said this week that fewer hams have been needed to help with communication as telephones and a radio system base station have been installed in the Red Cross service center. But, he said hams were being kept on alert because of the possibility of more wet weather. According to McCarthy, some media accounts have mentioned Amateur Radio's contribution to the flood relief effort. "Amateur Radio has really come through on this," he said.

ARES EC Bob St Clair, N7VVA, said amateurs from the London Bridge Amateur Radio Association with help from the Western Arizona Radio Club and the Auxiliary Communications Group from Yuma County assisted in the flood zone during the week of October 22. St Clair said hams helped with communications in Wenden, Parker and other affected communities. "This has been a learning experience, and it has followed the training that we have been conducting here in Lake Havasu City for the past seven years," St Clair said. "Murphy didn't have a chance. This time, we had it covered."

## **ARRL AMATEUR RADIO EMERGENCY COMMUNICATION COURSE COMING SOON**

The ARRL Certification and Continuing Education Pilot Project's first offering is closer to completion. Since March 2000, a dedicated crew of volunteers

has been working together to produce a basic level introductory course in emergency communications. The course will provide a basic standard of training for everyone, regardless of their geographic location or education level. This first-ever ARRL continuing education course will initially be available as an on-line course, offering a certificate and ID card for each student who successfully completes each part. The first course, which comprises Level I, Introduction to Emergency Communications, is made up of Parts 1, 2 and 3. Future courses, Level II, NCS and Liaison Training, and Level III, Emergency Communications Management/Administration Issues, will be available in 2001. More details about Level I, Introduction to Emergency Communications, will be released as the course nears completion.--Dan Miller, K3UFG

#### **COMING SOON: FIRST HAM OPERATION FROM ISS**

Amateur Radio is poised to mark an historic milestone. Operation from Amateur Radio's first permanent foothold in space is expected to debut soon after the all-ham Expedition 1 crew arrives November 2 aboard the International Space Station. The ISS crew could be on the air by mid-November. The Amateur Radio on the International Space Station--or ARISS--initial station gear already is aboard the ISS awaiting the arrival of Expedition 1 Commander and US astronaut Bill Shepherd, KD5GSL, and Russian Cosmonauts Sergei Krikalev, U5MIR, and Yuri Gidzenko. The equipment includes VHF and UHF hand-held transceivers as well as a TNC for packet, a specially developed headset and signal adapter module plus power adapters and interconnecting cables. The Expedition 1 crew is set to blast off October 31 aboard a Russian Soyuz rocket from the Baikonur Cosmodrome in Kazakhstan and will arrive aboard the ISS a couple of days later. Once on board, the crew will begin a four-month stay aboard the ISS--the first permanent occupancy of the international complex. Two US call signs have been issued for Amateur Radio operations as part of the Amateur Radio on the International Space Station program. The FCC granted vanity call signs NA1SS and NN1SS to the International Space Station Amateur Radio Club on October 11. The NA1SS call sign will be used on board the ISS, while NN1SS will be for ground-based ISS communications from Goddard Space Flight Center in Maryland. A Russian call sign, RZ3DZR, and a

German call sign, DLOISS, also have been issued for use aboard the ISS. The initial station gear will be installed temporarily in the Zarya Functional Cargo Block of the ISS and will permit operation only on 2 meters--FM voice and packet.

Tentative operating frequencies are: Worldwide downlink for voice and packet, 145.80 MHz; worldwide packet uplink, 145.99 MHz; Region 1 (Europe) voice uplink: 145.20 MHz; Region 2 & 3 voice uplink, 144.49 MHz. Yet to be determined is the ARISS operating schedule, which will depend on the crew schedule. The ARISS Team anticipates multiband, multimode operations with the crew and regularly scheduled school group contacts. For more information about Amateur Radio on the ISS and SAREX, visit the ARISS Web site, <http://ariss.gsfc.nasa.gov/>.

#### **GOLDWATER K7UGA CALL SIGN RE-ISSUED**

The famous K7UGA call sign formerly held by the late US Sen Barry Goldwater has been re-issued to his club, the Central Arizona DX Association.

The FCC granted CADXA's request for K7UGA on October 24. The call sign came up for grabs this fall after the mandatory two-year waiting period following the cancellation of Goldwater's amateur license ended. Goldwater died May 29, 1998. CADXA President Gary Capek, K8BN, says the club, which traded its N7KJ club station call sign for K7UGA, plans to keep the call sign active.

Goldwater's family has donated his amateur equipment, memorabilia and furnishings to the Arizona Historical Society's museum in Tempe. Capek says he's met with representatives of the museum--which plans to reconstruct Goldwater's ham shack as an exhibit--and says CADXA will cooperate in making the call sign available for special events at the museum. The Goldwater ham shack exhibit still is in the planning stages, and the museum has been soliciting donations from the amateur community to construct the exhibit. "I have agreed to work with them when they begin to install the old Goldwater shack items in the next year," Capek said. The K7UGA station equipment and console were removed last May from the Goldwater home in Paradise Valley, Arizona, which has been sold. Goldwater's station and massive antenna system

were used to complete thousands of phone patch messages for troops during the Vietnam War.

### **FCC TO MONITOR AUCTION SITE FOR ILLEGAL ITEMS**

The FCC says it has reached an agreement with the eBay auction site that's aimed at curtailing the sale of clearly illegal radio equipment. FCC Special Counsel for Amateur Radio Enforcement Riley Hollingsworth says eBay has agreed to cooperate in removing advertisements in which the item for sale "is clearly non-certified" under FCC rules. Hollingsworth said most of the equipment involved falls into the CB category, including illegal amplifiers. Hollingsworth agreed to publicize the initiative at the urging of the ARRL Regulatory Information Branch's John Hennessee, N1KB. "I've got a whole folder of people who have been complaining about this and will be delighted to know that the Commission is taking action," Hennessee said. Hollingsworth said a review team within the Technical and Public Safety Division of the FCC Enforcement Bureau is screening eBay ads each week. He said the practice could be extended to other auction sites if the FCC learns of similar problems. Hollingsworth credits complaints from the Amateur Radio community with getting the new system in place. "I've been collecting complaints for a year, but the amateur community really generated it," he said. Hollingsworth says he sees about 10 complaints a week about auction site radio gear advertisements--sometimes several about the same ad. He cautions that complaints should be based on clear-cut FCC rules violations, such as attempts to sell illegal linear amplifiers. Amateurs can send items to [fccham@fcc.gov](mailto:fccham@fcc.gov), Hollingsworth said.

### **IT'S A WHOLE NEW LOOK FOR ARRLWEB**

Visitors to the ARRL Web site this week were greeted by a whole new look plus instant access to the latest Amateur Radio news. The makeover, which went "live" October 2, includes much easier site navigation and quick access to the most-visited ARRL pages.

The last major overhaul of the site page design and navigation was done in 1997. This latest, more extensive revision has been in the works for several months.

"This site update reflects changes in the Internet over the past few years," said ARRL Electronic

Publications Manager Jon Bloom, KE3Z. Bloom said most site users now employ "fourth-generation" Web browsers that are much more capable than those in common use a few years ago. "It makes sense to leverage the capabilities of those browsers in ways that make browsing the ARRL site easier," he said. Bloom says the ARRL remains committed to maintaining compatibility with older browsers and to ensure site accessibility to all users.

Among other things, the new page design makes site navigation easier by providing three means of finding information on the site—a site search engine, an alphabetical site index, and a new drop-down menu system. It also includes improved support for printing and scrolling pages.

The redesigned ARRL Web site also includes support for cookie-based ARRL member login. This makes login easier and allows members to log into and out of the site at will and to maintain their log-in from one visit to the next.

Perhaps the most noticeable change is that the latest Amateur Radio news now has "gone public" and is available to all readers. ARRLWeb Extra feature articles will continue to be available only to ARRL members. While ARRL Amateur Radio news now is available to the public, it also continues to be copyrighted and may not be copied and republished elsewhere without permission. Other Amateur Radio sites are welcome to link to stories and information on the ARRL site.

As a result of the site changes, the on-line edition of The ARRL Letter now will simply replicate the edition emailed to subscribers each Friday. News that appears in the weekly edition of The ARRL Letter and in W1AW/ARRL bulletins continues to be available for republication—provided credit is given to ARRL—with no special permission required.

Bloom invited comments on the ARRL Web site makeover.

### **NEW HAMPSHIRE GETS NEW SECTION MANAGER**

Former New Hampshire Section Manager Al Shuman, N1FIK, of Goffstown is the Granite State's new SM. Shuman—who had served as SM from 1992 until 1999--agreed to step back into the volun-

teer position following the resignation of Michael Graham, K7CTW, this past weekend. Shuman's appointment by ARRL Field and Educational Services Manager Rosalie White, K1STO, was effective October 4. Members may email Shuman at [n1fik@arrl.org](mailto:n1fik@arrl.org).

### **GEORGIA TECH ARC CELEBRATES MILESTONE**

Georgia Tech ARC celebrates 90 years of operation October 7-8 weekend with a special event station. Hams—especially Georgia Tech alums—are invited to work W4AQL on 40, 20, 15, and 10 meters. The Georgia Tech club got its start in 1910 when several senior class students at the then Georgia Institute of Technology began playing around with wireless. The government eventually assigned the call sign 4XG to these experimenters (4 for the call district, X for experimental and G for Georgia) until the outbreak of World War I, when all stations were shut down. Details can be found at the W4AQL Web site, <http://cyberbuzz.gatech.edu/w4aql>.

### **NEW SATELLITES BEING COMMISSIONED**

Ground controllers are commissioning the new Saudi and Malaysian Amateur Radio satellites launched September 26 from Kazakhstan. Over the past weekend, controllers have been detumbling the Malaysian TIUNGSAT-1 satellite to prepare it for nadir stabilization. The first payload was activated September 29. The CEDEX payload for gathering radiation data is very similar to the CEDEX developed for Phase 3D—the TiungSat CEDEX is the next revision. Once the attitude is stabilized, further payload testing will be completed. The downlink frequency is 437.325 MHz. A number of reports have been received from Amateur Radio operators who copied signals from TIUNGSAT-1 shortly after launch. The satellite was heard transmitting telemetry at 9600 baud using FSK and the AX.25 protocol. For more information on TiungSat-1, visit the Malaysian Microsatellite page at [http://www.yellowpages.com.my/tiungsat/tiung\\_main.htm](http://www.yellowpages.com.my/tiungsat/tiung_main.htm). Both SAUDISAT-1A and 1B have been turned on and are running their initial housekeeping tasks. Downlinks are on only when the spacecraft are over ground stations participating in the commissioning process. Downlinks are: SAUDISAT-1A, 436.775 MHz; SAUDISAT-1B, 437.075 MHz, and 9600 baud FSK transmissions are currently taking place on these frequencies. Reception reports are invited to Jim White, WD0E, [wd0e@amsat.org](mailto:wd0e@amsat.org).

[Chris](#) Jackson, G7UPN, and Jim White, WD0E, via SpaceNews

### **FCC QUESTIONS POSSIBLE “CORPORATE RAIDERS” ON HAM BANDS**

With complaints involving Amateur Radio licensees on the decline, FCC Special Counsel for Amateur Radio Enforcement Riley Hollingsworth has been focusing more on unlicensed activity. In a few recent cases, he's questioned businesses about transmissions monitored on amateur bands.

In late September, the FCC sent a Warning Notice to Friendly Tree Services of Orange, New Jersey, after members of the amateur community there monitored what appeared to be business-related communications on 2 meters. Citing “information before the Commission,” Hollingsworth dropped Friendly Tree a line on September 29 to inquire about transmissions monitored on 144.085 MHz. Monitoring information provided to the FCC indicated that an apparently unlicensed station was conducting business on 2 meters using a “base station and at least four trucks.” The amateurs made the connection with the tree service after overhearing directions to a particular street address given over the air. The amateurs drove to the address and spotted one of the company's trucks and a worker at the site.

Another Warning Notice went out in late September to Inland Materials Inc of Casselberry, Florida. That Notice cited information alleging that the company was transmitting on 438.537 MHz without a license. According to Hollingsworth, amateur reports indicated that one channel of the company's business radio system transmits on an amateur frequency, but he said it was unclear if this was by design or simply an error.

Hollingsworth has advised the two companies that unlicensed operation is a violation of federal law that could result in a fine of up to \$10,000 and jeopardize any FCC licenses the companies already hold. Hollingsworth requested both firms to contact him within 10 days to discuss the matter.

The FCC also notified AT&T Wireless PCS in late September to inquire about allegations that the PCS system's KNLF245 in Newport News, Virginia, may be causing harmful interference to the KA4VXR Amateur Radio repeater in nearby Hampton. The FCC requested that AT&T contact the re-

peater system's trustee to "explore a solution to the problem" and to advise the FCC of its findings.

The FCC is continuing to investigate allegations raised earlier this year that the Citipage Plus paging system in Las Vegas, Nevada, has been causing harmful interference to the N7OK repeater on 147.09 MHz.

### The Public Service List (October)

There are currently no events seeking help but you may check the web site below for the most up to date information.

<http://purl.org/hamradio/publicservice/nediv>

### \$November Treasurer Report\$

For the month of October, income was \$15 in dues, \$35.95 from FoxFinder sales, and \$30.12 in bank interest recorded. Expenses were \$33 for postage (September and October), and \$170 for an ARRL book set to be given away during future club meetings. Net expenses were \$121.93.



Fund balances as of November 10 are:

General fund	\$855.68
Community fund	\$1192.55

Remember, when you are renewing your ARRL membership if you let me send it in for you you will save a stamp and the ARRL lets us keep part of your dues to add to the treasury. If you do this, make your check out to NVARC.

73,-Ralph KD1SM

### 2000-2001 Fleamarkets

18 Nov Newton MA WARA/1200RC Auction @Masonic \$2@11 Eliot W1MJ 617 484 1089

27 Jan Nashua NH NE Antique RC \$5@8 \$1@9 @ Res Ctr Church Joe 617 923 2665 F

18 Feb Westford MA GBARC Radio32 Antique @Regency @8 Tammy ARC 978 371 0512 F+

24 Feb Milton VT NVT WinterHamfest @8 @HS Rt7 Mitch W1SJ 802 879 6589

17 Mar Eastern Connecticut ARA Pomfret CT. kelli@arrrl.net

25 March Framingham MA FARA @HS \$14/T@7:30 \$2@9 Bev N1LOO 508 626 2012



## Nashoba Valley Amateur Radio Club

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Photographer Ralph Swick KD1SM  
PIO: Jon Kinney N1JGA

Board Members  
Earl Russell 1998  
Bob Reif 1999

Den Connors 2000

Meetings are held on the 3rd Thursday of the month  
- 7:30 p.m. - Pepperell Community Ctr. Talk-in

146.490 simplex  
442.90 + 100Hz Repeater  
53.890 - 100Hz Repeater

This newsletter is published monthly. Submissions, corrections and inquiries should be directed to the newsletter editor. Articles and graphics in

most IBM-PC formats are OK. You can send items to [pozerski@net1plus.com](mailto:pozerski@net1plus.com)  
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