RCA AMATEUR RADIO CLUB

MAY, 2008 MONTHLY NEWSLETTER INDIANAPOLIS, IN

THE NEXT MEETING OF THE **RCA AMATEUR RADIO CLUB** WILL BE
TUESDAY, MAY 6th, 6:30 PM AT THE G.T. SOUTH'S,
5711 E. 71st STREET, INDIANAPOLIS, IN

RCA ARC NEWS

SUMMARY OF THE APRIL MEETING -- At the April meeting, we discussed the proposed joint Field Day operation with the Indianapolis Radio Club. Those present voted to give it a try. K9RU and N9KZJ will work with the IRC on the details. We also voted to go ahead with our normal booth space and tables at the Indianapolis Hamfest in July. K3BG will send in the reservation form. The USS Indianapolis, WW2IND, Special Event operation in June was covered by N9KZJ. There was some discussion about the repeater projects to be done, and pictures from W9CGI's last trip to the Caribbean were passed around. W9KVK talked about his up coming trip to Russia. Bob has arranged for a tour across Russia on the legendary Trans-Siberian Express to Novosibirsk. On the way, weather permitting, they will witness a total eclipse of the sun on Aug. 1, 2008.

RCA ARC AT THE DAYTON HAMVENTION -- Once again this year, the Club will have informal get-togethers at the Hamvention. At 1200 EDT both Friday and Saturday, in the permanent seats in the northwest corner of the hockey arena, grab some food and join us lunch.

Friday, after the close of the Hamfest, join us for dinner at Old Hickory Bar-B-Que, 4029 N. Main St. in Dayton. As you head east from Hara Arena towards I-75 on Turner Rd., you will cross Main St. about half way between the arena and I-75. It runs diagonally northwest to southeast. If you're driving east on Turner, turn right (southeast) on Main St. The restaurant is less than a mile south of Turner on the west side of the street.

The Club operating frequency will be 144.43 MHz, the same frequency we have used in the past.

RCA ARC AND INDIANAPOLIS RADIO CLUB JOINT ARRL FIELD DAY -- The RCA ARC and the Indianapolis Radio Club will be going ahead with the joint Field Day operation. The ARRL Field day is June 28-29th and it will be a 2A battery operation with a VHF and GOTA (Get On The Air) station. The GOTA is a station we get for "free" and is for those who have received their license since FD of last year or other operators who have been inactive for an extended period of time and would like to get some practice operating in a contest. The GOTA and VHF stations do not put the group into a higher number of transmitters class for class 2A and above.

The Field Day location has been changed since we discussed this at the April meeting. The new location will be the Marion County Fair Grounds. This is a public location with easy access. We will operate on the west side of the fair grounds in the covered area used for

concerts. We plan to have a cookout Saturday evening. Even if you don't have time to operate, stop by and check out the setup. For more information contact K9RU at: k9ru@arrl.net or call (317) 218-7304. –K9RU

INDIANA QSO PARTY SATURDAY MAY 3 -- The purpose of the Indiana QSO Party (INQP) is to encourage contact with Indiana amateur radio stations by other Indiana hams and hams worldwide. Stations outside of Indiana work Indiana stations only. Indiana stations work everybody, including other Indiana stations. The QSO Party starts: 1600 UTC Saturday May 3, 2008 to 0400 UTC Sunday May 4, 2008 (Saturday noon to midnight EDT). Work the Special Event station W9UUU and submit your log, and you will get a certificate as well as a 50 point bonus added to your score! The bands will be crowded this weekend with several other QSO parties and CW County Hunters contest, so tune around and look for the INQP stations.

In addition to individual awards, there is an award for the Indiana Amateur Radio Club whose members turn in the highest total aggregate score. Clubs must be legitimate radio clubs, meeting FCC requirements for club licensing. Clubs need not have a club license or be members of the Indiana Radio Club Council to qualify. The sponsor of Indiana QSO Party, currently the Hoosier DX and Contest Club, is not eligible for this award. Please see the rules for more details.

Worked All Indiana Award , the INQP is a great time to work on your Worked All Indiana Award. It only takes 60 confirmed counties to earn the initial certificate.

If you have time get on and make a few QSO, 20 and 40 meters are the best band, 80 meters later in the evenings. http://www.hdxcc.org/inqp/ --K9RU

IRC BUS TO THE DAYTON HAMVENTION SATURDAY MAY 17th -- It is not too late to get tickets for the Indianapolis Radio Club bus trip Saturday, May 17th to the Dayton Hamvention. The plans are the same as last year with pick up and return stops on the south and east sides of Indianapolis. They will stop in Richmond at MCL on the way back for dinner. The bus drops you at the door of Hara Arena and picks you up when the hamfest closes. The bus ticket does not include admission to the show or meals. Check out the Indianapolis Radio Club web site for details. If you look at the cost of gas and parking at Dayton, this is a good deal. See the IRC web page for more information; http://www.indyradioclub.org/

ROAD CONSTRUCTION NEAR THE HARA ARENA – Here is the road construction information we included in last month's newsletter…

If you are planning to attend the 2008 Dayton Hamvention, you will need to give yourself a little more driving time than in years past. This due to several road and street construction projects that will be ongoing in the area.

The first problem is construction is at the north end of the downtown Dayton area on Interstate 75 from about Mile Marker 53 to 56. Rob Lunsford KB8UEY, who is the Hamvention's Talk-In Committee Chairman says that the Ohio Department of Transportation has started a multi-year multi-phase reconstruction of I-75 in which there are lane restrictions, bridge replacements, and various other adjacent projects.

The other traffic pinch involves one of the main surface streets used by attendees of Hamvention. Needmore Road it is almost a straight shot from exit 58 on I-75 to Hara Arena. Unfortunately for Hamvention goers a rebuild project is set to begin on this roadway and it will be down to one lane each way for no less than 100 working days. If you look at a calendar, that includes Hamvention weekend.

Lunsford says that these repairs are long overdue and there are work-arounds for those driving to both the Hara Arena and the event parking at the nearby Salem Mall. We suggest that you go to http://www.hamvention.org/hv2008/media/trafficnews.html in coming days to find the alternate route that best serves you. –W9KVK

ROGER GRADY, K9OPO SK -- Roger Grady, K9OPO, died in an auto accident in Minnesota two weeks ago. Many of us knew Roger. He was retired from Delphi in Kokomo (Delco Electronics). He had been active in the Windtrax Balloon launch program, Skywarn, the old Indianapolis ATV/UHF Club among others. Roger has had a flea market table near the RCA ARC tables at the Indianapolis Hamfest for many years.

INDIANAPOLIS VE TESTING SCHEDULE -- Here is the Indianapolis Radio Club VE testing schedule for the rest of the year. Calling in advance to ensure testing availability is suggested but not mandatory.

June 7th
July 12th (At a separate location with the Indianapolis Hamfest)
August 16th
Sept 6th
October 4th
November 1st
December 6th

SPONSOR: Indianapolis Radio Club (W9JP)
LOCATION: Indianapolis Training Center 2820 N. Meridian Street.
CONTACTS: Gale Wuollet, AA9WU (h) 317-849-8449, or Jay Wright, KK9L 317-203-3335.

All testing at the Indianapolis Training Center starts at 9:00 am and the last test will be administered no later than 11:00 a.m.

TRICKY SPELLING WORDS NEEDED – Marlene Harry, daughter of Ken Harry, WB8SSB, will be competing in the next National Senior Spelling Bee in June. She'd like some tricky words to study. Hopefully her email box will be full or tricky spelling words! Email Marlene at mkharry_at_sbcglobal.net.

HAMFESTS; EVENTS

Apr 20	North Central Indiana Hamfest, http://www.ncihamfest.com/
May 16-18	Dayton Hamvention, http://www.hamvention.org/
June 28-29	Field Day http:// www.arrl.org/FieldDay
July 12	Indianapolis Hamfest, http://www.indyhamfest.com/
Aug 17	TARA Hamfest, Lafayette, IN http://w9reg.org/hamfest/index.htm
Nov 15-16	Fort Wayne Hamfest & Computer Expo. http://www.fortwaynehamfest.com/

ANNUAL ARMED FORCES DAY CROSSBAND TEST SCHEDULED FOR MAY

The Army, Air Force, Navy, Marine Corps and Coast Guard are co-sponsoring the annual Military/Amateur Radio communications tests in celebration of the 58th anniversary of Armed Forces Day (AFD). Although the actual Armed Forces Day is celebrated on May 17,

the AFD Military/Amateur Crossband Communications Test will be conducted on May 10 to prevent conflict with the Dayton Hamvention, scheduled for May 16-18.

The annual celebration features traditional military to amateur crossband communications SSB voice tests and copying the Secretary of Defense message via digital modes. These tests give Amateur Radio operators and short wave listeners an opportunity to demonstrate their individual technical skills and to receive recognition from the Secretary of Defense and/or the appropriate military radio station for their proven expertise. QSL cards will be provided to those stations making contact with the military stations. Special commemorative certificates will be awarded to anyone who receives and copies the digital Armed Forces Day message from the Secretary of Defense.

Look for schedules and frequencies of participating military stations to be published in May on the Army MARS Web site http://www.netcom.army.mil/MARS

HAM TO HIKE THE PACIFIC CREST TRAIL

Bruce Prior, N7RR, a contributor to QST, has announced plans to hike the Pacific Crest Trail (PCT). The Trail is 2650 miles long, ranging from the California-Mexico border all the way to the Canadian border and reaching an altitude of 13,153 feet. On April 19, Prior will begin the journey near Campo, California with hopes of reaching Manning Park, British Columbia in late September or early October. Prior will bring along his Elecraft KX1 with the 30 meter/80 meter module, as well as resonant half-wavelength dipole antennas for the 80, 40, 30 and 20 meter bands. Operating will be in the evening from his camps sites and occasionally in the daytime from sites such as the summit of Mount Baden-Powell (9399 feet) or at the California-Oregon border on the trail. For more information on frequencies, times and nets that Prior will be on, please visit his blog http://www.n7rr.com/

According to the Pacific Crest Trail Association, approximately 300 people attempt to hike the entire trail from end-to-end each year and about 180 complete the hike each year. The trip usually takes between four and six months. The trail avoids civilization in favor of scenic and pristine mountainous terrain with few roads, passing through the Laguna, San Jacinto, San Bernardino, San Gabriel, Liebre, Tehachapi and Sierra Nevada ranges in California, and the Cascade Range in California, Oregon and Washington. –ARRL Letter

SABLE ISLAND 6 METER DXPEDITION ANNOUNCED

Sable Island operation planned for June 25th through July 7th, the dates were chosen to maximize the possibility of transatlantic multihop sporadic-E propagation to Europe, Africa, and the Mideast. They will be on six meters 24 hours a day from the main station, CY0X in grid FN93 operating on 50.117 MHz. They request that you do not send your grid square as it consumes valuable time during an opening.

They will try to activate the rare grid GN03 if there is a solid opening, using a portable station with the call CY0RA.

20 and 40 meter CW and SSB operations are planed but the HF operation will take a lower priority to the 6 meter operation.
The special call sign CY0X commemorates the 225th anniversary of the 1783 Loyalist landing in Nova Scotia. The IOTA island designator is NA-063. QSL via VE3IKV web site: http://cy0x.com/cy0x/

ANTENNA EXPERT L. B. CEBIK, W4RNL (SK)

L. B. Cebik, W4RNL, ARRL Technical Advisor and antenna authority, passed away last week of natural causes. He was 68. An ARRL Life Member, Cebik was known to many hams for the numerous articles he wrote on antennas and antenna modeling. He had articles published in most of the US ham journals, including QST, QEX, NCJ, CQ, Communications Quarterly, Ham Radio, 73, QRP Quarterly, Radio-Electronics and QRPp. Larry Wolfgang, WR1B, QEX Editor, called Cebik "probably the most widely published and often read author of Amateur Radio antenna articles ever to write on the subject."

Cebik lived in Knoxville, Tennessee and wrote more than a dozen books on antennas for both the beginner and the advanced student. Among his books are a basic tutorial in the use of NEC antenna modeling software and compilations of his many shorter pieces. A teacher for more than 30 years, Cebik was retired, but served as Professor Emeritus of philosophy at the University of Tennessee, Knoxville. Cebik served his country in the US Air Force from 1957-1961, specializing in air traffic control.

Cebik maintained a Web site <http://www.cebik.com>, a virtual treasure trove to anyone interested in antennas. Besides a few notes on the history of radio work and other bits that Cebik called "semi-technical oddities," the collection contains information of interest to radio amateurs and professionals interested in antennas, antenna modeling and related subjects, such as antenna tuners and impedance matching. Cebik said that his notes were "geared to helping other radio amateurs and antenna enthusiasts discover what I have managed to uncover over the years -- and then to go well beyond."

His Web site also contains information on antenna modeling. His book, "Basic Antenna Modeling: A Hands-On Tutorial" for Nittany-Scientific's NEC-Win Plus NEC-2 antenna modeling software, contains models in .NEC format for over 150 exercises. "Since the principles in the book apply to any modeling software," Cebik said, "I have also created the same exercise models in the EZNEC format. For more advanced modelers using either NEC-2 or NEC-4, I have prepared an additional volume, "Intermediate Antenna Modeling: A Hands-On Tutorial," based on Nittany-Scientific's NEC-Win Pro and GNEC. The volume includes hundreds of antenna models used in the text to demonstrate virtually the complete command set (along with similarities and differences) used by both cores." –ARRL Letter

DEATH OF DIGITAL RADIO MONDIALE IN 2008 ?

Our CEO is just back from Malaysia, where we have been coordinating the next period (summer 2008) frequency allocations for all of our broadcasts at the HFCC http://www.hfcc.org/....

From both formal and informal discussions among participants at the recent High Frequency Co-ordination Conference, HFCC, http://www.hfcc.org/ held in Malaysia, it is now clear that the proposed DRM (Digital Radio Mondiale) system, that would have converted analogue Shortwave to digital, FM like quality reception would hardly be implemented if ever on a large scale, beyond the current experimental stage. In theory, DRM would have allowed listeners in richer nations in Europe and North America to re-discover Shortwave, with a noise free reception in digital quality, using new digital receivers. To make a long story short, the main reason of the demise of DRM is the lack of receivers. After more than three years since the first experimental broadcasts in DRM, no receiver has been produced at a cost and in large numbers to be widely adopted, and there are no plans from any large manufacturer to

produce such receivers now. If you want to read more about DRM, check our FAQ at http://www.egradio.org/index.php?name=FAQ&id_cat=7 or visit the DRM site at http://www.drm.org/

For this reason conventional, analogue shortwave may still be safely considered a rather cheap way of reaching very large audiences with a single broadcast, that is able to cover a territory as large as a one or two continents at any one time. Internet is also taking a lot of listeners away from conventional broadcast media (TV, FM, AM/Medium Wave and Shortwave alike), and for this reason we intend to develop even further our audio and video streaming services.

Writing off DRM seems to be done on the grounds that there are no receivers in the market. That's true. We're 12 years since the official launch of DRM in China but still there is no one willing to take the plunge and mass produce them. And they are right to be concerned because the range of programming is not in place to make the system fly. It is also interesting that the die-hard shortwave fans seem to be relieved at any news of DRM's failure - because it means interference levels are lower on the increasingly less crowded bands. They have made a pastime of searching for weak, unusual signals. –Critical Distance Weblog

WILLIAM F. BUCKLEY MEETS AMATEUR RADIO

In a personal essay published in the April 7, 2008 issue of The National Review, the late William F. Buckley Jr described a fascinating story involving himself, Senator Barry Goldwater, K7UGA (SK), and of course, ham radio. It seems that Mr Buckley was part of a 12 man trip to a very remote outpost at the South Pole. In addition to his son, his old pal Barry Goldwater and Barry Jr were also members of this expedition. Buckley described being in a crowded Soviet igloo, entertained with "trays of caviar and tumblers of vodka." After toasting his Russian host, he was suddenly taken aside by Barry Jr. "Dad wants to see you" he said, pointing to the door. Buckley was taken to another igloo, apparently the radio shack. "Thought you might like to talk to your wife," the senior Goldwater said. Buckley describes the prideful look on Goldwater's face, having maneuvered the Soviet radio to contact his wife back home in Arizona! Although he was a man famous for his complete control of the English language, Bill Buckley said he was "speechless" as he heard the telephone ringing and his wife answering the telephone! He said, "It's me darling" and his wife responded, "It's three o'clock in the morning!" Buckley exclaimed, "I'm calling from the South Pole!" This story reminded me of the many nights back in the late 1970s when I gladly helped with phone patches from the US Navy base at McMurdo, Antarctica. Just as Senator Goldwater did, I awakened many people in the wee hours of the morning with a phone call from their loved ones on the bottom of the world! -- KA5ELC

ARRL EXPO AT THE 2008 DAYTON HAMVENTION

2008 Dayton Hamvention excitement and anticipation are building as the date gets closer. The ARRL EXPO is meant to embrace the Dayton Amateur Radio Association's (DARA) Hamfest theme of "Amateur Radio + People = Fellowship". Located in the Silver Arena, with more open-air areas and interactive booths, the ARRL hopes not only to convey this message but provide easier opportunities for fellowship within the EXPO, offering more opportunities for interaction with the ARRL family.

The Field Services area will be expanded to accommodate more programs and activities, including a larger meet-and-greet area for members to visit with ARRL President Joel Harrison, W5ZN, as well as the many other League officials and staff who will be on hand to

answer any questions. It will boast a large interactive display devoted to Logbook of the World for real time demonstrations, as well as a question-and-answer session with ARRL Web and Software Development Manager and LoTW developer Jon Bloom, KE3Z. Log Book of the World Web site: http://www.arrl.org/lotw

The ARRL DXCC Branch Personnel will be on hand to check DX cards and applications for all ARRL awards; JARL personnel will check cards and applications for JARL awards. All cards, including old cards, cards from deleted countries and cards for 160 meters, will be eligible for checking. Applications will be limited to 120 cards; more cards will be checked as time and volunteer Card Checkers are available. See the DXCC Web site http://www.arrl.org/awards/dxcc for the latest program information and current forms.

The ARRL Bookstore and Membership area will continue to buzz with activity, particularly with all of the new publications and products being offered this year. QST Editor Steve Ford, WB8IMY, will be on hand to sign your new copy of "ARRL's VHF Digital Handbook." QST Contributing H. Ward Silver, N0AX, editor and author of the popular QST column "Hands-On Radio" will also be available to sign copies of his latest book, "ARRL's Hands-on Radio Experiments." The "2008 ARRL Repeater Directory" in the new desktop and pocket-sized versions with many updates and improvements are sure to be a hit.

A new area located within the EXPO is the ARRL Movie Room that will provide a cozy area to sit back and relax and watch a movie on the 10-foot screen. Bob Allphin, K4UEE, Peter I participant and producer of the DXpedition video, will be a featured guest on Saturday in the movie room. This will be a unique opportunity to come and meet Bob, listen to additional commentary on the many DXpeditions he has been on and to ask questions about going on a DXpedition."

The Youth Lounge, organized by 2007 Goldfarb Memorial Scholarship recipient Andrea Hartlage, KG4IUM, will be up and running again this year. With activity for our young hams, the youth lounge is a full scale version of what every club and group can do to entice young hams to their events. This is a perfect opportunity to visit Andrea and the other volunteers in the areas and bring back ideas to your home clubs." Dayton Hamvention Web site: http://www.hamvention.org Keep updated with ARRL EXPO activities on the ARRL Web site: http://www.arrl.org/expo --ARRL Letter

HAMVENTION AMATEUR OF THE YEAR IS N0AX

QST Contribing Editor H. Ward Silver, N0AX, has been named Hamvention "AMATEUR OF THE YEAR" The 2008 Dayton Hamvention Awards Committee said Silver's "books and teaching materials have helped many become hams." Tom McDermott, N5EG, will receive Hamvention's Technical Achievement Award to recognize his technical contributions that helped digital ham radio expand. Emery McClendon, KB9IBW, was named the recipient of the Special Achievement Award for starting Amateur Radio Military Appreciation Day (ARMAD) in 2003 as a way for Amateur Radio to express support and appreciation for our service men and women. The winners will be feted at a dinner held May 17 at the Marriott Hotel in Dayton.

The Technical Achievement Award goes to Thomas C. McDermott, N5EG, for his "more than 20 years of involvement in projects which further the development of Amateur Radio." According to the awards committee, McDermott co developed the TexNet packet switching network in 1986; based on datagram routing, it covered much of the South Central United States in the 1990s. McDermott was the founder of the Texas Packet Radio Society. As part of that group, he designed the hardware and some of the protocols for the TexNet packet switching network; he has been involved in numerous Tucson Area Packet Radio (TAPR)

projects and has written a textbook on wireless communications. McDermott holds eight patents.

The Special Achievement Award goes to Emery McClendon, KB9IBW, for his efforts in starting Amateur Radio Military Appreciation Day (ARMAD) in 2003. He said he started ARMAD "as a way to have Amateur Radio serve as a tool for the people of our communities to be able to express 'live' support and appreciation for our troops, veterans, retired military and first responders." McClendon, of Fort Wayne, Indiana, became an Amateur Radio operator 16 years ago. His interest in organizing Military Special Events derives from his four years of service in the US Air Force and two years in the Indiana Air National Guard. –ARRL Letter

AMATEUR RADIO "WELL REPRESENTED" AT NATIONAL HURRICANE CONFERENCE

More than 2000 people attended the 30th Annual National Hurricane Conference in Orlando, Florida March 31-April 4. ARRL Emergency Preparedness and Response Manager Dennis Dura, K2DCD, attended on behalf of the League.

Amateur Radio was well represented in the pre-Conference training with a variety of presentations. The National Hurricane Center (NHC) maintains a fully equipped and functional Amateur Radio station at its headquarters, WX4NHC. Station coordinators John McHugh, K4AG, and Julio Ripoll, WD4R, provided a comprehensive overview of the activities of the NHC, emphasizing the interaction and importance of Amateur Radio in the forecasting of tropical events.

Director of Operations for the VoIP Hurricane Net Rob Macedo, KD1CY, presented a detailed overview of the system that integrates EchoLink and the Internet Radio Linking Project (IRLP). For the past few years this operation has been building to become another reliable source of information for the National Hurricane Center.

Dura and Macedo offered the final Amateur Radio presentation, "Disaster Intelligence and Situational Awareness Utilizing Amateur Radio." This discussion went beyond the traditional uses of Amateur Radio into the areas of damage assessment, infrastructure monitoring, communications systems replacement and rapid situational analyses.

During the Conference, Amateur Radio was praised as always playing a critical role in emergencies. The commercial communications systems go down early in a storm, you lose even cell phones, landline phones, commercial radio and TV. In those cases, ham radio operators that can put up emergency transmitters and antennas in the wake of a storm can give us reports that are valuable. They also help in the search and rescue efforts in the aftermath. –ARRL Letter

FCC ACTIONS:

FCC FINES COLORADO COMPANY FOR SELLING "NON-CERTIFIED CITIZENS BAND (CB) TRANSCEIVERS" On Friday, March 21, the FCC released a "Forfeiture Order" in the amount of $7000 to CB Shop and More in Loveland, Colorado for "willful and repeated violations of Section 302(b) of the Communications Act of 1934, as amended (Act), and Section 2.803(a)(1) of the Commission's Rules." According to the FCC, CB Shop and More was selling a "non-certified Citizens Band ('CB') transceiver." The CB Shop and More has been in the Commission's sights since at least 2002.

On January 26, 2007, and March 8, 2007, the Denver Office received complaints alleging that CB Shop and More was selling non-certified CB transmitters and modified 10 meter band radios. On March 30, 2007, the Denver agents again visited CB Shop and More and noted that one of the CB transceivers offered for sale was a Galaxy Model DX99V and asked if they could purchase the transceiver. "The Denver agents identified themselves as FCC agents, and interview the owner of the CB Shop. The owner acknowledged that he once received a Citation from the FCC, but he thought it was still legal for them to sell the referenced CB transceivers for Amateur Radio use.

On August 28, 2007, the Denver Office issued a "Notice of Apparent Liability" (NAL) in the amount of $7000 to CB Shop and More. In the"NAL," the Denver Office found that CB Shop and More "apparently willfully and repeatedly violated Section 302(b) of the Act, and Section 2.803(a)(1) of the Rules by offering for sale a non-certified CB transceiver." CB Shop and More filed a response on September 17, 2007 (Response). In its "Response," CB Shop argued that "Galaxy Model DX99V does not require certification by the Commission because it is not a CB transceiver." Consequently, CB Shop and More argued that the forfeiture should be cancelled.

CB radio transceivers are subject to the equipment certification process and must be certified and properly labeled prior to being marketed or sold in the United States. Amateur Radio Service is not subject to equipment authorization requirements prior to manufacture or marketing; however, some radio transmitters that transmit in a portion of the 10 meter band of the Amateur Radio Service (28.000-29.700 MHz) are equipped with rotary, toggle or pushbutton switches mounted externally on the unit, allowing operation in the CB bands after completion of minor and trivial internal modifications to the equipment. The Commission's Office of Engineering and Technology evaluated Galaxy Model DX99V here and determined that it could easily be altered for use as a CB transceiver.

The FCC examined CB Shop and More's response to the NAL "pursuant to the statutory factors above," and in conjunction with the Forfeiture Policy Statement. The Commission concluded that CB Shop and More willfully and repeatedly violated the rules. Considering the entire record and the factors listed above, that neither reduction nor cancellation of the proposed $7,000 forfeiture is warranted. The Commission ordered that, the "CB Shop and More is liable for a monetary forfeiture in the amount of $7,000 for willfully and repeatedly violating Section 302(b) of the Act, and Section 2.803(a)(1) of the Rules."

In additional action, a Warning Notice was sent to non-licensee residential owners concerning interference from a flat screen television unit to a licensed amateur in Edgewater, Florida. –ARRL Letter

WEB BASED SOFTWARE DEFINED RADIO

This is a quick blog update introducing a web base SDR! The system is located in the Netherlands on the campus University of Twente.

In contrast to other web-controlled receivers, this receiver can be tuned by multiple users simultaneously, thanks to the use of Software-Defined Radio.

Tuning is done either by clicking or dragging with the mouse on the waterfall display, by typing a frequency into the text box, or by using the up/down buttons. The bandwidth can be changed by clicking the appropriate buttons, and by “dragging” the edges of the yellow passband indication.

Hardware - The present system consists of the following hardware:

A W3DZZ trap-dipole for the 80 and 40 meter amateur radio bands, on top of the 40 m high "Hogekamp" building of the University of Twente.

Simple bandpass filters for the 40 m and 80 m bands.

A quadrature mixer in which the signals are mixed with about 7080.7 kHz. This mixer is a Quadrature Sampling Detector or "Tayloe mixer", the well-known circuit with a four-position CMOS switch, which is also used in many amateur radio SDR front-ends such as the SDR-1000 and the SoftRock.

Another such mixer operating at 3600 kHz.

A PC with soundcards to receive and process the signals coming out of the quadrature mixers. The PC is an old Pentium-III at 1 GHz, running Linux and the WebSDR server software.

Software - The system consists of the following software:

The WebSDR server software running on the server PC. This software on the one hand does the digital signal processing to produce the audio data streams and the waterfall pictures, and on the other hand is a simple web server to offer this data and some static files to the users.

A small Java applet running in the user's web browser, to send the audio data received from the server to the user's sound card. Another Java applet running in the user's web browser, which fetches the data for the waterfall display from the server and displays it. Some Javascript code on the web page, to "glue" things together.

Follow the link: http://websdr.ewi.utwente.nl:8901/ and have some fun, you don't need a license to enjoy this. [Ed. note: Be sure to check out the picture of the receiver hardware at the bottom of this page: http://websdr.ewi.utwente.nl:8901/info.html] –M0KHZ, PA3FWM

SHORTS

DXCC DESK -- ARRL DXCC Manager Bill Moore, NC1L, reports that the following operations have been approved for DXCC credit for the 2007 operations: Western Sahara, S05A; G4GIR/KH9 Wake Island; and Uganda, 5X1NH. The 2008 operation: VP6DX Ducie Island; TX5C Clipperton Island; Burundi, 9UXEV; Syria, YK9G, and the ongoing operation of HZ1PS in Saudi Arabia.

St Barthelemy (FJ) has been added to the DXCC computer system and Logbook of The World. With the addition, this moves the #1 Honor Roll position to 338 current entities and now operators need 329 entities to qualify for Honor Roll. The "Logbook of the World" is now accepting certificate requests for St Barthelemy; once those logs are submitted, the matches should occur and applicants can claim DXCC credit.

If you had cards rejected for this operation, please send an e-mail to the ARRL DXCC Desk to have your DXCC record updated. –ARRL Letter

NATIONAL GEOGRAPHIC TO USE TV AND AMATEUR RADIO FREQUENCIES FOR WILDLIFE SENSING -- A report in TV Technology by Doug Lung highlights that the FCC has issued a licence to National Geographic permitting them to use TV and some Amateur Radio frequencies for Wildlife Sensing.

National Geographic has been issued licence WE2XMB and can use the 54–72, 76–88, 174–216, 420–432, 433.92, 470–608, 614–806 and 902–928 MHz bands. Read the full article at http://www.tvtechnology.com/pages/s.0115/t.12757.html

The FCC has granted license WE2XMS to the Colorado Space Grant Consortium at the University of Colorado in Boulder permitting them to use 144-146 MHz and 435-440 MHz for testing the Amateur Radio CubeSat atmospheric neutral density explorer. Colorado Space Grant Consortium http://spacegrant.colorado.edu/

EXHIBIT KITS AVAILABLE FOR FIELD DAY -- The ARRL Field Day information page has all the details on Field Day rules, frequencies, forms, pins, logos and T shirts. If you want to order exhibit kits containing printed flyers about Amateur Radio, you may order these materials on the ARRL Web site. The cost of the exhibit kits ranges from $8-$12 depending on shipping. Field Day is June 28-29, 2008.

THE ARRL FIELD DAY STATION LOCATOR IS UP AND RUNNING – If you would like to find a Field Day site or your group would like to be a listed on the Station Locator Service, go to the Field Day Station Locator Web site: http://www.arrl.org/contests/announcements/fd/locator.php .

THE NEW ARRL VE MANUAL NOW AVAILABLE -- is the complete guide to the ARRL Volunteer Examiner program. Packed with everything new and experienced ARRL VEs need to know, this book is loaded with information, including chapters on becoming a Volunteer Examiner, the Volunteer Examiner Team, preparing for the test session, Form 605; conducting the test session, session report and returning documents, FCC Part 97 Rules and more.

DIGITAL VOICE SOFTWARE RELEASED -- A new version of the Digital Voice software FDMDV is now available. FDMDV allows you to transmit and receive Digital Voice simply by hooking up your PC to a standard HF SSB transceiver. The key advantage of FDMDV is that it transmit bandwidth is less than half that of SSB, just 1.1 kHz. The new version FDMDV 1.2 along with updated documentation can be downloaded from http://n1su.com/fdmdv/

ONE VOLT QRP TRANSCEIVER -- Members of the **DL QRP** group are involved in a project to build a QRP transceiver that runs on just 1 volt. The goals of the project are:

Save the resources of our earth
Reduce battery waste
Reduce required materials
As much fun as possible, so make a real useful transceiver

Details of the project have now been made available on the web. The article says: "Modern solid state technologies makes it possible to design RF transmitters and receivers with a power supply as low as 1 Volt with good efficiency. The main power consuming parts, the AF end-amplifier and the RF-PA have to be designed very carefully to give good results and to meet the goals. The efficiency today would be optimal at 3 Volt. This experimental design will be the base for a 3 Volt Transceiver with an RF power of > 0.5 Watt." Read the full article with circuit diagram at: http://www.lichtnetzwerk.de/1volttxvr_dkumentation.pdf
DL-QRP-AG: http://www.dl-qrp-ag.de/

HOW TO USE YOUR TAX REFUND CHECK -- As you may have heard, each of us who filed a tax return will be getting a tax rebate check to stimulate the economy.

If we spend that money at Wal-Mart, all the money will go to China. If we spend it on gasoline it will go to the Arabs. If we purchase a computer it will go to India. If we purchase fruits and vegetables it will go to Mexico, Honduras and Guatemala. If we purchase ham radio equipment it will go to Japan. If we purchase useless stuff it will go to Taiwan and none of it will help the American economy.

We need to keep that money here in America. The only way to keep that money here at home is to spend it at a **hamfest flea market**!

THE *RCA ARC MONTHLY NEWSLETTER* IS COMPILED AND EDITED BY JIM RINEHART, AND JIM KEETH. ALL MATERIAL CONTAINED HEREIN IS OBTAINED FROM THE SOURCES CREDITED AND EDITED FOR THIS NEWSLETTER. EMAIL TO mailto:WebMaster@w9rca.org. Check our web site at **http://www.w9rca.org/**