DELTA AMATEUR RADIO CLUB

SPARKS

Web Edition

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W4BS REPEATER SYSTEM

146.82, 147.36, 224.42, 443.2 & 145.03 Packet

PRESIDENT'S CORNER

Another year has passed and another Board of Directors has been elected. As Tommy said, I think the Nominating Committee did an excellent job in their selection, and I look forward to working with this outstanding group of individuals. Many of them I have had the pleasure to work with this past year and they did an outstanding job. Those new members, Ben Barth, KF4GNC, Ernie Christensen, WA6KOC, and Bill Covington, KC4SXT, have been very active in Delta Club throughout the 1997 year. The energy level these individuals bring to the group leads me to believe that we will have a stellar year.

Last year when I was Vice President, I had a mission and coined the phrase "Sea of Blue.," and although it took some time we eventually did see a successful implementation of blue at our meetings and events. As President, I want to see this movement gain even more speed. Maybe we should coin a new phrase, the "Delta Club Tsunami". I would like to see a strong blue wind blow into our meeting and events in the form of shirts, patches, hats, etc.

Many of you may be wondering what direction the Delta Club will be taking with the new board. I am a firm believe of utilizing all the available resources in accomplishing the objectives set forth by the Board of Directors. This means more than just finding new activities for the club to participate in, it means getting more involvement from the membership. At the December meeting I had several members approach me and indicate that they were interested in getting more involved. Well, rest assured, those of you that made that request will not have to ask a second time. Your names and your calls have been ingrained in my brain and you will be hearing from me or a member of the board.

There are many, many tasks that need to be completed throughout the year, and there are a lot of people who would like to tackle some aspect of those tasks. We will be calling on you very shortly. If you have an idea, don't just talk about it to someone in the club, make your idea known, tell a board member, but more importantly, come to the board meeting and discuss that idea. I would like to see a strong contingent of members attend the board meetings. These events are not limited to just the Board of Directors, it is opened to all members of Delta Amateur Radio Club. We, the board, have been elected by you the membership to make decisions that ultimately impact the club, but we are human and we can't think of everything. Each and every member of Delta Amateur Radio Club is an indirect member of the Board of Directors and you need to get involved if we are to take our club to the next highest level.

Over the past couple of months the 1997 Board of Directors have seen a decline in the participation of the nightly Traffic and Information Net. I want to see this decline reverse, and that can be done in many ways. The first step that I see the new Board of Directors taking to improve participation in this nightly event is to utilize it for what it was designed to do, communicate information to all amateur radio operators with specific emphasis on Delta Amateur Radio Club. With that in mind, I am going to request that the Net Manager attend all board meetings and compile a list of announces and information resulting from the board meeting that will be disseminated to the Net Controls for inclusion in the announcements and net business portion of the Net. Participation in this nightly event will increase if we pass information onto the membership as well as the amateur community via our Traffic and Information Net.

By the time this newsletter reaches the membership the next event will have already occurred. I am planning to have a "brainstorming" session for the Board of Directors to formulate goals, objectives, and a plan for the next twelve months. From this meeting I will be able to outline at the January meeting where we would like to go, how we're going to get there, and what we need to get there.

In closing I want to comment on one last item. During the 1997 year, Tim MCNeall, KF4DNA, made tremendous strides in getting Delta Amateur Radio Club involved in the 1997Memphis In May event. Unfortunately, we were unable to accomplish this goal. Plans are already underway for our club being involved in this event in 1998. Bill Covington, KC4SXT, and Tim McNeall, KF4DNA, are working as a team to identify all the tasks, and comply with all the requirements of being an official Memphis In May participant. They are hard at work now to secure a location for a Special Event station, submit all the necessary documentation, making arrangements for obtaining equipment to make this one of the most successful Special Events in the history of Delta Club.

Keeping in tune with my earlier statement about involvement of the membership, if you're interested in participating in some aspect of this event, contact anyone on the Board of Directors, but more importantly, contact either Bill or Tim.

I look forward to 1998 being the best year ever. I realize that goal in itself will be a tough one to pass, after the outstanding year 1997 has been under the direction of Tommy Thompson, KD4TJO, and the 1997 board. We can, however, raise the standard one or two notches higher, but we are going to need your help to do so. So, get involved, get your piece of the Delta Club "rock." It's out there for the taking, all you have to do is step up and be counted.....

73,

Ben, KU4AW

SECRETARY'S REPORT

At this writing, the last Delta Club function is two days away, ending what has been for me quite a memorable year. I was busier than I expected to be, but every bit of it was fun. And I feel honored to have been entrusted with job for one more year. I'll be sendling letters to those of you who have not yet renewed your memberships, and I hope to send letters to those who did not renew an 1997 as well. Maybe they missed us as much as we missed them.

We have received the following renewals: James Catlin KD4DBC, Jim Price NI4C, Robin McConnell KE4GPR, Jeff Aschenbrenner KF4DAJ, Charles Frans KF4QYS, Darrell Pike KD4OZS, Robert Oliver KD4ZZQ, Duval Bruce WD9HHO, Emma Bruce WD9IOA, Fred Sutton KO4QM, Jim Brinson K4WOP, Thomas Holbrook W4WBQ, Ernie Christensen WA6KOC, Pam Christensen KF4NDD, Ed Trammell KF4QFW, Frank Bratt N4LPE, James Butler KB4LJV, Becky Butler KC4MTN, Barbara Abrams KE4BUU, Harold Abrams KE4GVB, Jay Mintz KE4IVM, David Albert N5COO, Barry Anderson WA4MFF, Philip Anderson KF4TAF.

We also have two new members. Be sure to give come back to them if you hear their call. They are: David Shelby KF4SVW, Alton Banton KM5CV.

As you read this, I hope you each had a wonderful holiday and enjoyed the New Year.

73 to everyone.

Kathy, KE4UYU

REMINDER.....

Club membership expires on Dec. 31 of each year. The club has always extended a grace period of a couple of months for members to send in their renewals. As of this writing there are about 185 members that have not renewed. The cost to send out reminder letters is high so **PLEASE SEND THOSE RENEWALS IN SOON.**

FCC Radio Frequency Exposure Regulations for the Evaluation of an Amateur Radio Station.

The FCC has released regulations for each ham radio operator to evaluate their station and the amount of human exposure to RF energy. This article briefly reviews those regulations. When you evaluate your station, use the ARRL or FCC tables. The January 1998 issue of QST has an excellent article by Ed Hare (pages 50-55) on these regulations and calculations.

If a person operates only a handheld (HT) or a mobile station, then no evaluation is required because of the lower power, the shielding of a mobile rig in a vehicle, and the lower duty cycles. Those hams who operate a fixed station or operate on other frequencies must evaluate their stations. Most hams probably will not have to make any changes in their station.

If one uses a tower-mounted, multi-element antenna, uses an amplifier, or operates at the HF frequencies, then an evaluation is probably needed. For example, the frequencies that I usually use in my shack include 2, 6, 10, 12, 15, 17, 20, 30, 40, 80, and 160 meters. I use HF, VHF (packet), VHF/HF (voice), and 6m (FM, voice) radios. I use an R7 vertical antenna (on my chimney at about 40 feet height; no high energy RF lobes), a dipole (40m), a long-wire (160m), and a G5RV (multi-band). The long distances from the antennas to the public and to the operator suffice to meet specifications. However, in an attempt to demonstrate the various features of the new regulations, I will discuss below those factors in greater detail. Each ham must evaluate two different populations ("controlled and uncontrolled") that might be exposed to the station's RF. The controlled group includes your immediate family (spouse, children, grandchildren, etc.); usually you where they are located. For example, when my granddaughters visit, I do not operate my ham station, but rather visit with them. The uncontrolled group includes those individuals walking near the perimeter of your property, next-door neighbors, etc. For that group, you must calculate the distance from each property line to your antennas.

The basic parameters that must be considered in the station evaluation include the frequency (for example, the RF energy from 160 m is quite different than the energy contained in microwaves. We microwave food to precipitate proteins and to heat water. The eye contains proteins and water), the amount of power (100 versus 1,000 watts), distance (RF power decreases with the square of distance from the antenna), antenna type (dipole, vertical, multi-element Yagi, others), and the operating duty-cycle (SSB, FM, RTTY, CW, etc.). Available tables help the ham to quickly and effectively analyze the RF power associated with their station.

It is not recommended that a ham use a relative field-strength meter to make the near-field measurements for a station evaluation because that meter must be calibrated at each appropriate frequency and distance. That calibration may be beyond the abilities of most hams. Rather, there are computer programs that were used to generate the tables; thus, the ham can list each operating method, know the geometry and layout of the property and antennas, and perform a few simple, rapid calculations.

I demonstrate, by an example of my operating station, the factors that I must consider. I have a mobile tribander (2 m, 70 cm, 23 cm) that I do not have to consider (see above). In my shack, I operate on several different HF bands (160, 80, 75, 40, 30, and 20 m) that meet the guidelines because I operate below 200 watts on those bands. My Kenwood TS950DX does transmit up to 150 watts, and I must consider my RF exposure levels at 17, 15, 12, and 10 meters. My R7 vertical antenna is 40 feet above ground at the chimney level, and I have appropriately 60 feet to the west from that chimney to my property line, and approximately the same distance to me; I operate on the second floor. Therefore, my controlled environment must take into account (by the Pythagorean theorem) the distance from the curb (and to the operator) to the top of that R7 (a distance of approximately 72 feet). The vertical antenna has a gain of one; therefore, according to the tables, I meet specifications for 17 meters. The worst case is for 10 meters. The specification is a minimum of 10 feet. So, my station meets all specifications from 10 through 160 meters. My 6m radio uses a vertical antenna mounted about 20 feet above ground and appropriately 30 feet from the curb. The hypotenuse of that triangle is 36 feet, and the specification is 7 feet. Therefore, I meet that specification.

The other antennas include a dipole, G5RV, and a long wire. The dipole and G5RV antennas are 35 feet from the operator, and much farther to the uncontrolled group. The 160m long wire is 36 ft. from the uncontrolled group, and much farther to the operator. Those antennas also meet specifications. Thus, one can see that the calculations and specifications are relatively easy to calculate, and that the published tables make this evaluation relatively painless. Actually, I could have taken only the worst case to demonstrate that my station meets regulations; but, the purpose of this article is to illustrate several different concepts.

One might question why a government regulation has been developed for our ham radio hobby. However, I welcome these new specifications so that I can ensure that: a.) I do not expose myself to any unsafe levels of RF power, b.) my family is not subjected to any dangerous RF radiation, and c.) I do not expose my neighbors to any harmful RF energy levels.

The FCC Bulletin 65 (available over the internet at www.fcc.gov) will help us to evaluate our stations. These regulations go into effect on January 1, 1998 for all new stations, or for those stations that renew or modify their license with the new 610 form on or after that date. Existing stations that don't have to file an application with the FCC must be in full compliance with these rules by September 1, 2000. Therefore, if you do not meet these specifications, then you must modify either the station, the antenna, or the operating procedure. If one is in compliance, then a simple application suffices. I hope that this information clarifies this new situation, demonstrates that it is relatively easy to perform your station evaluation, and demonstrates that most of us probably already comply with these important RF regulations.

Dom AA5N

EDITORS NOTE:

Dom, AA5N, is Past President of the Delta Amateur Club and is a Professor of Chemistry at the University of Tenn. at Memphis, and has written a number of articles for Sparks.

JANUARY

CLUB MEETING

7365 HWY. 70

BARTLETT, TN

MEETING STARTS AT 7:00 PM

SEARCHING THE WEB

VE TESTING:

Don't forget the monthly Volunteer Examiner testing session. Registration begins at 5:30p.m. and testing begins promptly at 6:00p.m. Please remember to bring two forms of identification the origianl and copies of any existing licenses or CSCE's you might have. Please be on time for registration, as you will not be allowed to enter the testing session after 6:00 p.m., so our volunteer VE team can finish in time to attend the club meeting. Call Joan Thorne 366-9722, if special testing arrangements are required.

VE Liason

HAPPY HOLLIDAYS !!!!

I hope that everyone has had a wonderful Christmas, Hanukah, or Kwanza and that the New Year holds everything best for all.

The December testing session held some surprises for me. I expected that each of you would either be at the party meeting or out doing Christmas shopping, but no, four people came to the testing session.

I want to thank Jim KI4I, Tim AB4NH, Francis WA4ZYN, Don KJ4PO and Barry N4QW for helping at this session. I forgot the tape player and Jim and Tim managed to come to my rescue.

We administered 7 elements at this session. Of those elements 5 were passed including a 13 wpm.

Congratulations to:

Kurt Schropp KU4NH - Advanced

Arron DeShazo KD5CXN - Technician

Brian Kusler KF4EWO - General

I am looking forward to both (1) being able to serve you, the Delta Radio Club, with VE testing, and (2) working with the wonderful VE Team Members. Have a wonderful New Year.

73, Joan KN4PM

REMINDER:

Please remember to keep the FCC aware or any change in name and address, they do have to be able to get in touch with you should there be any problems that arise.

As of January 1st the old 610 forms will no longer be accepted for any reason.

The new 610 dated September, 1977 will be the only form available for renewal or upgrading that is accepted by the FCC. The reason for this is the new inclusive phrasing that all must sign: I certify that:

- the construction of the station would NOT be an action which is likely to have a significant environmental effect (see the Commissions Rules 47 C.F.R.Sections 1.1301-1.1319 and section 97.13(a);

-I have READ and WILL COMPLY WITH Section 97.13(c) of the Commission's Rules regarding RADIOFREQUENCY (RF) RADIATION SAFETY and the amateur service section of OST/OET Bulletin Number 65.

These new forms can be downloaded from the FCC site or I do have some forms available.

73, Joan KN4PM

W4BS REPEATER SYSTEM

146.82 net 8:00 pm

147.36 tone = 107.2

224.42 1.25 m reptr

443.20 patch, 107.2

AIRWAVES

The radio program "Airwaves" has moved to a new time and day. Airwaves is now broadcast on WYPL-FM, 89.3, on Monday evenings from 8:30 to 9:00 PM. The format has changed, and is now devoted to only amateur radio. Tune in, and enjoy. 73 Dom, AA5N

January Program

I have heard several talk about new computers they had just purchased or were going to get for Christmas. Well, if you fall into this category or own a computer or even think about owning one, you won't want to miss this meeting.

Surf the net while Tommy, KD4TJO, shows you what the Delta Club Home page is like and some new features available while on the net.

Ben, KF4GNC

WHAT IT'S ALL ABOUT

A family travels frequently to their cabin in Arkansas to get away from the hustle and bustle of city living. Fishing, boating, the spacious outdoors, and just a time to get away from it all. Usually the HF rig goes along, some real good time to work the DX and Contests that there just does not seem to be time for at home.

One particular year the family decides to spend Christmas at the cabin. They have a daughter that lives and works in Texas, and they don't get the chance to be together that often. So the plans were made. Mom and Dad would go up early to have a little time to themselves, the daughter would get there a day or two later, Christmas morning their son would leave their home in the city and join them to spend the day together. I am sure, as all families do, they had a very good time, visiting, exchanging presents, and, well, just being a family again.

As all family gatherings go, it had to come to an end. The daughter returns to Texas, the son decides to return home to work and be with his friends. Mom and Dad are gonna spend a few more days just hanging out. Early on the morning after Christmas, the son leaves heading home. The day is rather balmy, raining a little and the streets are sure to be slick. Mom and Dad tell the son to be careful, and if anything is going on at home to be sure to call them and let them know.

So another day gets off to a start. The son is heading home, as I'm sure he has done on many different times. Soon an accident happens, the son has a traffic accident, a head-on collision. The driver of the other vehicle is able to pull the boy out of his car. He had his seat belt on. The boy is hurt. Someone calls an ambulance and the boy is taken to the local small town hospital. His parents are notified, and they go to the hospital to see about their son. His injuries are such that the hospital is unable to give him the help he needs. An air ambulance is called in to transport him to the closest trauma center over a hundred miles away. The parents must return to their cabin to get the dogs and lock things up. That means no one will be at the trauma center when their son arrives. They call some of their ham family and ask if they would go to the hospital and be there when the Helicopter arrives, and be with him until they can get there. It's almost a three hour drive from the cabin to the trauma center.

Word is spread quickly among the ham family, one ham calls the hanger where the helicopter is based to get an update. One ham is able to dial up the frequency and monitor the communications during the fight from the hospital to the trauma center. Finally a voice is heard on the radio. Wing Two, Medcom. We have a 19 year old male MVA victim, suffering from bilateral broken femurs, vital signs are good, the flight seems to go good. The pilot radios that conditions are worsening that will not allow them to fly in that direction until the weather improves. About 40 minutes later the helicopter arrives at the trauma center and the boy is taken in for tests, to access his injuries. One lung has collapsed and a chest tube has been inserted. During some of the tests, they find that the other lung is going to collapse, another tube is inserted. The test take between 4 and 5 hours. So far the boy is doing ok.

Hams are monitoring numerous frequencies waiting to hear from the parents so they can be updated on their sons conditions. While stopping for gas in Arkansas, one ham in the area has been monitoring and calls the parents and wished them well, and he would pray for their son. Finally, a faint crackle on the repeater, the parents are coming into range, communications are established, and an update on their son is relayed to them. He is doing ok at this point, all test are done, but he will require 8 to 10 hours of surgery to put pins in his legs. The doctors are ready to take him to surgery, however they hear that the parents are on their way in, about twenty minutes out, via ham radio. The doctors decide to wait so the parents can see him before he is taken to surgery. Hams positioned in the waiting room at the trauma center talk the parents into the area of the entrance so they may get in as quickly as possible to see their son. Surgery takes only about 5 hours. Less damage is found than expected. Pins are inserted in the broken bones. The doctors say they will have him up on his legs in just a matter of days, however he will be in a wheel chair for 8 to 10 weeks to allow the legs to heal. After that physical therapy will be needed to allow the boy to learn to walk again. So far the diagnosis is good. The doctors are watching for complications in the lungs.

I wish this was a fictional story, however it is not.

Jeremy Troughton is the son of our club's President and Secretary, Ben and Kathy Troughton, KU4AW AND KE4UYU. As of this publication Jeremy is still in critical care at the Elvis Presley Trauma Center. At the last report this writer has gotten, Jeremy is doing as well as can be expected. The doctors are expecting to have him putting weight on his left leg in the next few days, but no weight is expected to be handled on his right leg for some while due to the extent of injuries suffered to that leg.

Can you imagine that same scenario with out having ham radio around. The waiting flight from the first hospital to the Med. The long drive from the cabin to the Med not knowing how your son is doing. The silence of two parents rushing to be with their son.

The well wishes and prayers poured out all over the ham bands. When one ham checked with another about a phone call from the parents, or relaying information about arrival time, everyone wanted to check on Jeremy's condition. The ham at the Med commented at one time on the air, that he would have to stop talking so much or his battery would be gone by the time Ben and Kathy were in range to get a report on Jeremy.

It was very touching to me hearing the outpouring of support for the family. I knew that if something like this was to happen to me, that same Ham family would be there for me and my family. (From personal experience a couple of years ago, I can atest to that fact.)

I am very proud to be a Ham. I'm very proud to be associated with a group of people the caliber we have in this hobby.

And,

I'm sure Ben and Kathy are too.....

AMATEUR HARDWARE UPDATE..

Many times we can have a problem hitting the repeater with our HTs. This month's project is a portable antenna for 2 meters to increase your range. The type of antenna is the J-POLE.

To make it portable and cheap we will build it using 300 OHM TV twin-lead.

The dimensions are determined by the frequency to be used and velocity factor of the twin-lead. Hookup to the HT is done with RG-58 coax cable. If you put a BNC connector on the end you can hookup directly to your HT without an adapter. Because it is made of wire you can roll it up and store it in the glove box of your car. You can also put it in a piece of PVC pipe to weather proof it and allow for a permanent outside installation. The antenna is easy to build and comes in handy you need the extra range. I will have some of the J-POLES at the meeting to show and answer questions.

SEE YOU AT THE MEETING

James Butler, KB4LJV

AMATEUR PACKET UPDATE....

One of the popular uses for Packet Radio is APRS. APRS is a software program that combines maps, tracking, weather, and messages. The ARRL has now released a new book on APRS and its uses. The book "GETTING ON TRACK WITH APRS" is written by Stan Horzepa, WA1LOU. The book has the history of APRS, Software and Hardware requirements, and how to use the features of the software. Some of the special topics include tracking, keyboard communications, direction finding, monitoring telemetry, and DX clusters. This is a very well written book which will be a good addition to your personal library.

James Butler, KB4LJV

CONGRADULATIONS JAMES...

If you received your copy of QST in the last month or two, you might have noticed that OUR James Butler, KB4LJV, is now the Technical Coordinator for the Tennessee area.

Take a look at the Section Managers articles, and you will see James Butler, KB4LJV listed there as TC along with the listing of ourt state Manager. Congradulations James, it's good to see one of our local Hams do good.

David....KU4AS

Definitions

This listing of "West Virginia Computer definitions" appeared in the November 1997 edition of "Harmonics", the newsletter of the Rowan Amateur Radio Society, and copied from the January issue of Amateur Radio New Service, "Bulletin".

LOG ON: Making the woodstove hotter.

LOG OFF: Don't add wood.

MONITOR: Keep an eye on the stove.

DOWNLOAD: Getting the wood off the pickup.

MEGA HERTZ: When yer not careful downloadin (watch th' toes).

FLOPPY DISK: Whacha get from pilin' too much wood.

DISK OPERATING SYSTEM: The equipment the Doc uses when you have a floppy disk.

RAM: The hydraulic thingy that makes the woodsplitter work.

HARD DRIVE: Gettin' home in mud season.

PROMPT: What you wish the mail was in mud season.

WINDOWS: What you shut when it's 30 below.

SCREEN: What you need for black fly season.

BYTE: What black flies do.

CHIP: What to munch on.

MICRO CHIP: What's left in the bag when the chips are gone.

INFRARED: Where the left-overs go when Fred's around.

MODEM: What you did to the hay fields.

DOT MATRIX: Farmer Matrix's wife.

PRINTER: Someone who can't write cursive.

LAP TOP: Where little kids and coon hounds feel comfy.

KEYBOARD: Where you hang your keys.

SOFTWARE: Them plastic eatin' utensils.

486 MB: One of them fancy imported cars.

MOUSE: What eats the horses' grain in the barn.

MAIN FRAME: The part of the barn that holds the roof up.

PORT: Fancy moonshine.

ENTER: C'mon in.

RANDOM ACCESS MEMORY: You can't remember how much that new ham radio cost when your wife asks.

THE YOUTH FORUM

By Brian Mileshosky, N5ZGT 1021 Dakota S. E., Albuquerque, NM. 87108, E-mail: n5zgt@swcp.com

Reprinted from "WORLDRADIO" January, 1998.

JOTA a Success !

On 17-18 October 1997, million of scouts, scouters and Amateur Radio operators teamed up for a weekend of fun during Jamboree On-The-Air (JOTA), an annual event that gives scouts (Boy Scouts, Girl Scouts, Explorers, Cub Scouts, etc.) and scouters the chance to experience Amateur Radio by talking to other scouts around the world. (Although this JOTA report may seem late in this month's column, it is actually the earliest it can be featured because of deadlines I must meet when submitting my bi-monthly columns - Brian.)

One particular Amateur Radio club has hosted JOTA for three years as a service to their community. The Delta Amateur Radio Club and its 25 members hosted JOTA for the local Boy Scouts of America Chickasaw Council in Powell Road Park located in Collierville, TN., a suburb of Memphis. Scout troops and Cub packs from town including Memphis, Bartlett, Germantown and Collierville, TN. as well as Horn Lake, Mississippi, participated in this event !

Over 125 participants including 85 scouts and cubs from 12 different troops and packs experienced the thrill of Amateur Radio by operating the Delta Amateur Radio Club's ham radio station, using the callsign W4BS, which phonetically stands for "World 4 Boy Scouts". Contacts were made with other scouts and scouters from Florida, Texas, Cuba, Canada, Argentina, and Mexico, to name a few places.

Scouts and visitors also had many other activities to participate in, including local police and fire department communications system demonstrations, weather spotting, disaster planning forums, and transmitter hunts. Barry Moore, KE4KAG, the Delta Amateur Radio Club's JOTA coordinator, enjoyed showing scouts, scouters and visitors how Amateur Radio plays such an important role in disaster communications. Barry stated, "We were able to give our scouts a firsthand look at the total communications picture as it relates to community services and in providing reliable communications in times of extreme emergencies where normal modes may prove to be futile".

The Delta Amateur Radio Club is committed to recruiting young people into Amateur Radio. In 1995 it established Explorer Post 903, and is currently teaching a No-Code Technician class to young children ages 7 - 12 every Saturday morning.

It is people like those of the Delta Amateur Radio Club who make this worldwide event such a success ! Many people have become aware of Amateur Radio, and just how important this hobby is to communities around the world.

For those who hosted JOTA for a group of scouts last October, thank you ! You are a valuable resource to Amateur Radio.

Mark your calendars for the third weekend of October of 1998 for the 41st Jamboree on the Air ! It's never too early to start planning for this event. Speak to your local Amateur Radio Clubs and ask them to host a troop of scouts as the Delta Amateur Radio Club did, or host a group yourself for a weekend filled with fun and excitement !

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