

K7LED RELAY



The RELAY is the official tabloid of the Mike and Key Amateur Radio Club. The Mike and Key is dedicated to the growth and betterment of Amateur Radio. We meet the third Saturday of every

month at the Salvation Army Renton HQ, 720 Tobin St., near the SE corner of the Renton Airport. The Club operates repeaters on 52.05-53.05, 146.22-146.82 (PL 103.5), and 222.52-224.12 under the call K7LED. The following nets meet on 146.82: Club Net, Wednesdays at 7:30PM; Public Service Net, Thursdays at 7PM. The Club mailing address is: PO BOX 2121, Kirkland, WA 98083. All persons interested in Amateur Radio are invited to participate in the Mike and Key Amateur Radio Club and it's activities. Yearly dues - \$12, single \$18, family.

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NEXT BOARD MEETING
December 27 @ 7:30PM
 Salvation Army HQ
 720 Tobin, Renton

Dues Expire 1/1/95
 20904 NE 77TH ST
 REDMOND, WA, 98053

NEXT CLUB MEETING
December 17 @ 10AM
 Salvation Army Renton HQ
 720 Tobin St, Renton
 Doors open at 9:30AM

Program: No official Program - Eyeball QSO time



**HAPPY NEW YEAR FROM THE BOARD
 AND THE EDITOR**

DEADLINE FOR DECEMBER RELAY SUBMISSIONS - JANUARY 12
CHECK MAILING LABEL FOR DUES STATUS

The Old Goat Continues...

Submitted by Gib, W7JIE

Last time, I gave you some info on getting duplex operation from a single wire - submarine cable style. Needless to say, it worked well. Now if we could only get away from the human element and make it machine workable. Which was done.



With incoming signals of very low voltage and distorted by the cable length and electrical characteristics, something had to correct all this. So, an amplifier-signal shaper was incorporated into the cable equipment. The amplifier would increase the signal to well over 50 volts by using tubes (no transistors then you know - heck they weren't even invented till 1948!). The signal was still rounded and appeared like the example I gave a few months back. To correct this, the amplified signal was sent to a signal shaping network which squared up the leading and following edge of the signal so that it appeared like the signal originally sent. With this amplified and squared up signal, it was easy to send it to a relay for sending onward to Anchorage or to a printer. Both liked the signal and reacted accordingly giving the addressee the message in printed form just like they wanted it.

Of course, I've simplified the system a bit but on the whole, it was a good system and with some multiplex equipment, two channels send and two channels received were eventually operational. Took a bit of thinking and a lot of patience with adjustments and time, but it worked. That is, until the "diamond cement" went to anchor in Seward harbor, hooked on the cable, sawed it in two and then dropped both ends back into 80 fathoms (about 500 feet) of very cold water.

It was winter but with a tug, a grappling hook, and a couple of 10 foot barges (ice on both), we got the thing back up out of the deep and spliced it and back to traffic. No easy job I tell you. At the shore end the cable was about an inch and a half in diameter but only about a half inch out in the ocean. Reason: at the shore end, tide and wave action and

ships could and would cause abrasions, wearing, kinks and other damage. So it was big at the shore but in the briny deep not too much happened. Although a whale did get tangled up in one sub cable and eventually drowned. His trashing around broke the cable. That's how they found out who caused the problem. Out in the deep sometimes the cable would swing for some distance between two undersea mounts or across canyons. Tide and currents could cause havoc when the cable had to sway back and forth. But it's hard to make it perfect when its down deep.

Memories! Hope I don't have to relive some of them.

Keep Your Eyes Open

Submitted by Al, KB7THX

Your Facilities Committee had a meeting to discuss items needed for our Club/ Salvation Army Trailer/Station.

Items on the list include: a Trailer, propane generator, batteries, antennas, radios (VHF, UHF, HF, Packet, and Commercial rig for legal access to municipal emergency frequencies), Power Supplies, Converters (power and fuel), plus a fixed tower and beam for Salvation Army QTH. It was decided that a 25 foot Travel Trailer or Motor Home would be ideal to double as a Club Station and Emergency Communications Center.

Please keep your eyes open for such a trailer! With 200 club members spread out all over Puget Sound, we have the ability to look far and wide for a good used rig. Check the local Little Nickel, a bulletin board, Auto Trader, rigs parked along side the road, etc. and call Nils/WB7TJK, Chuck/WA7EBH or myself if you find something you feel is worth more investigation. My home number is 747-5192.

RV's depreciate quickly so we should be able to find a good, clean, mechanically sound rig for a good price. Keep your eyes open and let me know.

Help Wanted!

Submitted by Frank, KA7QHG

Hey Gang! It's time for some of our 2 Meter, Wednesday night Net Controls to get a break. We have a need

for 3 new Net Control Operators.

Duties are light - you only have to operate once every five weeks and it's a great way to meet the 2 Meter crowd. Preambles will be furnished and there is a lot of support out there for those with weak knees.

If you can help, please call me at 243-9232 (8AM til Midnight). See YOU on the Net.

HOLD Incoming Welfare Traffic

by Greg Pool, WH6DT

Reprinted from the Amateur Radio News Service, August 1994 by way of the Radiogram

During a disaster, we hear many Amateur Radio Stations passing welfare traffic. Welfare messages are the easiest traffic to pass, and the most visible part of emergency communications.

Many operators sit on a 40 or 20 Meter frequency, because they have everything set up for phone patches into a specific part of the country. Shortwave listeners can hear the anguish in the voices of the callers. Then they hear callers thank the radio operator repeatedly for his or her dedication and service.

That instant gratification can intoxicate an Amateur Radio operator and keep him or her from considering the consequences. Yet, my disaster communication experience has taught me that most welfare traffic, though supportive, is unnecessary. In fact, holding onto an initial query will probably get you a faster answer than passing it along at the time of the emergency.

Incoming vs Outgoing

Incoming welfare traffic originates when a party outside the affected area sends a message to someone inside the affected area. Outgoing welfare traffic originates within the disaster area.

To run either type message requires one operator within the disaster area and one outside. Usually, there's plenty of volunteers outside.

An incoming message not only requires an operator inside the area to accept the traffic, it requires someone to

run the message to its recipient. Yet, when you operate within a disaster area, you cannot leave your station and the person next to you (the runner) already has twenty tasks to perform. Also, the phone lines must remain open for disaster-relief agencies to use.

We Weren't Thinking

The Amateur Radio response to the Northridge earthquake in Los Angeles was replete with bad practices. Many operators sent and accepted incoming welfare traffic on HF Nets and on packet. There were few "outgoing only" Nets.

In the San Francisco Bay area, one Amateur Radio operator provided his phone number to a TV station so people could contact him to originate incoming welfare traffic. That person was not thinking about the fact that passing incoming traffic took away from those truly in need.

Phone Lines Tied Up

Many of the stations accepting incoming traffic tried to use local phone lines to contact the recipients. In the first few days, their success rate was terrible. Their repeated calls tied up the phone lines so that those who had real emergency traffic could not get through.

Precedence

As a matter of precedence and responsibility, do not originate or accept incoming welfare traffic during the first week after a disaster. Instead, standby to accept outgoing messages. You will not handle as much traffic, so listeners may not hear you callsign so often, but you will free up operators inside the disaster area to be part of the solution, not part of the problem.

Luxury

Incoming welfare traffic is a luxury. The victim will get word out eventually, perhaps by originating an outgoing message. If the person has died, an incoming message will not help. If injured, a disaster relief agency will provide care. People a thousand miles can't help and their incoming messages just further the overburdened relief effort.

Flea Market Rolls On

Submitted by Michael, WA7UVJ

December 1st was the last Flea Market Meeting before the New Year. All areas of concern seem to be under control and a few improvements are planned. What's happening?

First, since the LOAD IN process has become pretty much a 'non-event', the committee has started looking towards improving the egress. Forms are being printed up and a process determined for getting pallets out as they are needed. Those who work these areas will need to keep an open and alert head.

After losing some paperwork in the mail, we have finally received our sanctioning from the ARRL.

As the security positions have been a weak area in the past, with few volunteers to man the positions, we are investigating the possibility of using uniformed Police Explorer Scouts. They would help us increase our eyes and get some training time and a donation in return.

Note that there is only ONE license test session this year. It will be held at 11AM and pre-registration is required. Positions are limited.

Many volunteers are still required to fill the many work positions that make up such an event as this. With close to 200 members, nobody should have to put in long hours if everybody helps. Do your part as dues do not come close to covering the many benefits this Club provides to you and the Ham community.

WANTED

Used ICOM ICU12 or ICU16.
May consider other UHF Hand
helds for the 460 Range.
Dan, N7QHC, 243-0163

Late model 2 Meter Kenwood
Mobile Radio. Carl, WA6SGE,
874-0664

The Prez Sez...

Submitted by Nils, WB7TJK

Five days ago, I was at a loss for subject material for this column. Now, I have so much to write about, I wonder which matter takes precedence.



FORMOST, let us all remember that amateur radio is a unique hobby. Unique in the sense that it requires knowledge to participate in the activities of the art of communicating. By the very nature of this hobby and the rules and laws that relate to it, one member with very low power operating CW with a home-brew transmitter and receiver can communicate with a fellow member who is using a top of the line transceiver that costs several thousand dollars. Yet, the owner of the homemade equipment may possess far more technical knowledge that the owner of the commercial equipment. Yet, neither one of these Hams would hesitate to share their knowledge with each other to resolve a problem common to their hobby.

We think of a QSO as a contact between two Hams, be they 10 blocks or two oceans apart. In reality, a QSO is a magic wand that establishes communication and understanding between two human beings who are confined to a planet called earth, in what we call the universe. The QSO transcends social barriers, race (here defined as any distinct class of people), skin color, and geophysical, ethnic grouping.

Hams are gifted with a hobby that lets them exercise the joy of the "CHRISTMAS SPIRIT" not once a year, as for most people, but every day of the year. So, as your Club President, I wish you a "MERRY QSO" for the remaining days of 1994 and may all your QSL cards be answered in return. WHAT OTHER HOBBY HAS THE BENEFITS OF OURS? 73.



WW2END

Submitted by Nils, WB7TJK

As President of the Mike & Key ARC, I have accepted an invitation for our Club to actively participate in the operation of a special event station on board the USS MISSOURI. This will take place on the 1st and 2nd of September, 1995.

The station will be in operation for 48 hours and will commemorate the 50th anniversary of the end of World War II. The treaty ending the war with Japan was signed on the USS MISSOURI now berthed in Bremerton. The first meeting to organize this event will take place in mid-January 1995, probably in Port Orchard.

This is expected to be a national news event and as plans are now being put together, there will be plenty of BRASS at the ceremony including no less than three Admirals from the Japanese Navy, representing their country.

As more information becomes available, I will keep you informed via the Relay. For now, I am looking for a volunteer to attend the planning meeting with me. Attendance is mandatory by at least one member representative of each group that participates. There will be one meeting a month up to the day of the event. Presently, plans are for 3 HF stations, one Packet station, and one Satellite station on board the ship.

**Field Day Reservations**

Submitted by Nils, WB7TJK

You!!.... Yes, you have only three weeks, and a couple days, to fill out that Ft. Flagler campsite reservation for Field Day, 1995. This is if you plan on camping at the State Park before, after, or during the Field Day event in the Lower or Upper campgrounds. (You do not need to worry about reservations to camp in the Club's group camp at the Wagonwheel.)

I thought a reminder would be in order as I understand the applications are processed on a first come - first serve basis as indicated by postal dates of applications. Fort Flagler is very popular

and fills up FAST!

Another Reminder

Submitted by Michael, WA7UVJ

It seems kinda early but Summer sneaks up fast - so do the better picnic sites.

If you had any ideas of volunteering to Chair the Club picnic in August, let your Club President know soon. Then make haste to reserve your favorite site. I know of many sites that are "full up" before the first couple days of the year have passed.

"CQ DL"**AMATEURFUNKMAGAZIN**

Submitted by Nils, WB7TJK

A few days ago, I dreceived a copy of the CQ DL magazine from our German Club member Gerhard Pantzer/DL8GBP. In it, was a full page article, along with two photographs, describing his participation in Field Day 1994 with the Mike & Key at Fort Flagler.

In addition, he sent along a letter addressed to all his fellow Club members. Both will be posted on the Board in the coffee room at the next meeting. See, I told you amateur radio was a unique hobby. CQ DL has 60,000 subscribers in Germany - nice to have members in far off places.

Ticket Crew

Submitted by Jo, KB7UFM

First, I'd like to thank all who volunteered to help sell tickets for last years Fleamarket. I didn't have to beg too much even though I didn't know what the Sam Hill I was doing, Your support was so gratifying, I've undertaken to Chair the 1995 Ticket Sellers.

Lust about everybody that helped last year has volunteered to sell and take tickets this year. Still more help is welcome. If you would like to get involved in ticket sales for the 1995 event, please give me a call or see me at the next meeting. Have a safe and happy holiday.

Fleamarket

Submitted by Nils, WA7UVJ

As Equipment Chair for the 1995 Fleamarket in March, I am in need of two

or three volunteers to help load, transport, and unload or pallets from their storage site in Maple Valley. This help is needed in both directions, to the Fleamarket and back again a couple days later.

My old reliable (?) 1 ton flat-bed truck is down with mechanical problems and I am under orders not to do any heavy lifting until we find out what my shoulder problem is.

Sure is getting old. If you can help with physical labor or transport (fuel provided), please give me a call, 242-8271.

To the Mike & Key

Submitted by Gerhard, DL8GBP

Dear Club Members,



You remember I was present at your Field Day on June 25-26 of this year at Fort Flagler. This was an interesting and exciting event for me because I saw the activity of the Mike & Key ARC for the first time in the USA. I was included in your big team, and watch the work, could help, had QSO's; in other words - I was an integrated member. That was great! I also remember the night meeting when there was the potluck. All the dishes I ate tasted good, my wife too. So we want to say now - many thanks (73).

I took many pictures and after developing them, they came out very good. I wrote down what I saw and typed it into the computer at my children's home. I copied the pictures and sent them to the Club in my home area but I didn't hear anything as to whether they had arrived safely during my stay in Enumclaw. Now, I am back home in "Laimnau" in Germany. During this time, I have met many Ham friends on the air or face to face. All of them said: "You wrote a big interesting report of the Mike & Keys Field Day. We put all those pictures you sent us into a thick album." I replied " why didn't you answer, the members of the Mike & Key would y it." They answered that had not much time. I was disappointed.

I changed my article and sent it to the editorial staff of the Club

during the same time in the Summer. I didn't believe they would be able to publish it but it might happen. It was a joyful surprise when I heard it was published. I send you this magazine, 60,000 members got it. If 10% of them read it and 10% of those noticed the name, then there are 600 German Hams with the Mike & Key ARC in their thoughts. Perhaps some will be able to travel to the Puget Sound area and would like to see or meet their Ham friends of the Mike & Key in the USA. It can happen that you will get visitors.

This is the active idea to make friends with people in other countries. Most Hams are peaceful, friendly, and helpful like you. Many 73. Gerhard/DL8GBP

General Club Meeting, 11/19/94

Submitted by Ryan, N7TNI

Present were: President

Nils/WB7TJK, Vice

President Jan/N7WJB,

Treasurer Jack/KB7ZS, 1

Secretary Ryan/N7TNI,

Activity Manager Tom/N7VDU, Trustee

#1 Chuck/N7STR, Trustee #2

Dan/N7QHC, Trustee #3 Lew/W7QMP,

Trustee #4 Chuck/WA7EBH, Trustee #5

Michael/KG7MX, and RELAY editor

Mike/WA7UVJ.

Call to Order

Pledge of Allegiance

Introductions:

Officer Reports: President -

Nils/WB7TJK: We will be electing a new Vice President today, please sign the attendance rosters, so we can determine if we have a quorum for the election. We still need one more member to serve on the audit committee. If you would like to serve on this, please make your wishes known. Nils had Melissa/KB7TFF and Melissa/KB7SDC stand up and receive a hand for the fine job that they did at Field Day '94. They were mentioned and got their picture published in the November QST, and we are all very proud of them.

Vice President - Jan/N7WJB

Introduced the candidates for

membership. They were Jeffrey Watterson/KB7NHD, Joe Orlando/WB7WCP, and Joe Langjahr/KJ7DG. The club membership voted to accept all of the candidates as members. Jan is also the Christmas Party chairman. It will be held here on December 10th. The club will supply the main course, smoked turkey and ham from Cave Man Kitchen, the rest will be pot luck. There will also be a gift exchange. Jan will need help setting up, we have the facility from 17:00 until 22:00, dinner will begin about 18:30 and we will start closing up about 21:00. Jan asked for a show of hands of those who would be attending.

Secretary - Ryan/N7TNI

Nils called for approval of the minutes of the October general meeting, as published in the last RELAY. The membership voted to approve them as printed. Ryan had received two pieces of correspondence, a letter from Kenwood, and a letter from Gary Evans/KC7BJZ which was read to the membership. The letter thanked Bob Crooker/KB7PEC for building and donating a J-pole antenna to Gary's fifth grade class in the name of the Mike and Key Amateur Radio Club. Letters from eleven students thanking Bob were enclosed with Gary's letter.

Treasurer - Jack/KB7ZS.

Gave his report on the financial status of the club, and had the books available for the members to inspect if desired.

Activity Manager - Tom/N7VDU

Program will be on cellular telephones, presented by Jerold Aceto/K6LIE. Next month we will have a get together and GabFest after the general meeting. Please bring some canned food or toys to donate to the Salvation Army. January after the membership meeting, we will meet at 13:00 at ICOM in Bellevue for a tour. There will be a raffle this morning, with \$25, \$15, and \$10 gift certificates from Amateur Radio Supply, a subscription to World Radio, and Bill/KL7BB donated Morse code tapes for prizes today. His training tapes cover the range from Novice/Tech speeds all the way up to 50 WPM contest style. Next month will be the yearly drawing, Tom surveyed the

membership today, the consensus was to have several prizes awarded, rather than one grand prize.

Radio Officer - Was not present.

Chairman of the Board - Chuck/WA7EBH

Reported we are still looking for people to serve on the audit committee. Anyone interested in serving, please give their name to Nils, and we will draw names from these people. Committee Reports:

Public Service - Dan/N7QHC

Reported the committee had a meeting Thursday, November 17th with several attendees. They decided to have their next meeting the third Thursday in January. They discussed antennas at the various Salvation Army facilities, and want to make sure usable antennas are available where needed. Dan suggested that we have a silent auction at the December meeting during the social gathering.

Technical Committee - Michael/KG7MX.

Mike Cross WB7AYU is putting together a report on the performance of the MFJ 259 antenna analyzers. He would like input from persons who have experience, good or bad using them under different conditions. Please contact Mike if you have input for him. Michael/KG7MX is also taking reservations today for the loan of the MFJ 259's. See him if you would like to check one out.

Education and Training - Gil/KB7ZQT

Could use more help, ideas, and involvement. See him if you would like to be more involved with the committee, or teach a class. Strategic Planning - Chuck/WA7EBH nothing more to report.

Facilities and Planning - Al/KB7THX

Reported that the committee had met at 09:00 this morning. They met to determine what items would be needed in the emergency communications facility. So far, they have come up with; a trailer, batteries, generator, antennas, VHF, UHF, and HF radios (tube type for ease of repair), commercial radios capable of out of ham band transmission on military or emergency frequencies when legal during an emergency. Power

supplies, converters, fuel, towers both fixed and portable. Also they would like a committee formed to assure maintenance is performed as needed. The committee is on the look out for a trailer or motor home that may become available that would be suitable for our use, and is still looking for suitable military surplus equipment. Please let Al know if you find out about any suitable equipment.

RELAY - Mike/WA7UVJ

The next deadline for RELAY submission would be December 8th, and thanked everyone for the articles they have been sending in.

ARRL - Harry/W7JWJ

Reported during the national elections we lost two good friends in congress, Al Swift who has retired, and Mike Kriedler. About fifteen years ago, Mary/W7QGP was in Washington DC, and was being escorted around town by ARRL lobbyist Perry Williams/W1IUD who, trying to impress her, had arranged a half hour meeting with Al Swift. As soon as Mary walked into Al's office, Al gave her a kiss on both cheeks. Perry was not aware that Harry, Mary, and Al had all worked together at KVUS TV thirty years ago. At that time, Al was making \$1.85/hour plus a small commission, so Harry figures Al has a job to go back to. Harry reports we now have a new friend in congress, David Funderburk/K4TPJ who was US ambassador to Romania under Ronald Reagan, who was just elected a congressman from North Carolina. Mary/W7QGP is attending a meeting of the volunteer resources committee at ARRL headquarters in Newington. The ballots were counted November 18th, and beginning in January, Mary Lou Brown/NM7N will be the new Northwest Division director. The new Vice Director is Greg Millnes/W7AGQ from Oregon. Beginning December 20th, the FCC will begin electronic filing of license applications. Theoretically, you could take an exam on a Saturday morning and be on the air by Monday evening. You could access the FCC database, get your license information and get on the air. Harry had limited handouts available on this topic for those interested.

Net Report - Frank/KA7QHG:

For those of you who are new here or are visitors, every Wednesday night at 19:30, the K7LED net is held on the club's 146.82 repeater. This is a casual check in net, you can talk about anything you wish, your latest project, ask technical questions, or whatever. The net has been running about an hour or more. If your license doesn't allow you to get on HF, this is a good way to meet new people. Frank is looking for a couple more net control operators. If you are available one night every five weeks and would like to help out, get in contact with Frank.

Old Business - Nils/WB7TJK announced that we need a Awards Banquet chair. The last three Pop Brown recipients (Diane/KB7DNE, Frank/KA7QHG, and Wayne/K6DOW) need to meet and decide who should receive the award next year. The hot water tanks have been delivered to Fort Flagler.

New Business: Dick/K7NEX announced that the fiftieth anniversary of the Japanese surrender aboard the USS Missouri will be commemorated by the North Kitsap Amateur Radio Club on September 12, 1995 aboard the battleship. They will be using the special call sign WW2END. Contact Dick if you wish to participate. Dick will get something published in a future issue of the RELAY on this subject.

Nils/WB7TJK announced that we have 73 members present, and we will be holding an election to fill the vacancy of Vice President. Jo/KB7UFM nominated Carolyn/WV7Q. Ray/KB7EKH nominated Jo/KB7UFM, who declined. Chuck/WA7EBH nominated Melissa/KB7TFF. Melissa/KB7TFF nominated Melissa/KB7SDC, who declined. Nominations were then closed. Carolyn was elected as our new Vice President.

Announcements for the Good of the Order: Nils announced that former member Tom/N7NFF was in Valley General hospital after suffering a stroke.

Sam/N7RHE visited WVVH in Hawaii, and will try to get permission to photocopy brochures he received there

and make them available if possible.

Gib/W7JIE needs people to tell him what's going on, so he can get the information out in the next issue of the Amateur Radio booklet he helps produce. If you have information, please contact Gib, or

The next Flea Market meeting will be held here at the Salvation Army Headquarters on December 1st, at 19:30. The program was a presentation on cellular telephones, by Jerold Aceto/K6LIE.

The raffle winners were: Monty/W7EVS - \$25 gift certificate, Chris/KC7CFE - \$15 gift certificate, John/KI7OT - Subscription to World Radio, Nils/WB7TJK - \$10 gift certificate, Doug/KB7TWJ - KL7BB Morse code tape, Frank/K7VMG - KL7BB Morse code tape, Little John/WA7HQG - KL7BB Morse code tape, and Stitz/WA7BET - KL7BB Morse code tape.

Board Meeting Minutes 11/29/94

Submitted by Ryan, N7TNI

Present were: President-Nils/WB7TJK, Vice President-Carolyn/WV7Q, Secretary-Ryan/N7TNI, Treasurer-Jack/KB7ZS, Trustee #2-Dan/N7QHC, Trustee #3-Lew/W7QMP, Trustee #4-Chuck/WA7EBH, Trustee #5-Michael/KG7MX, and RELAY Editor-Mike/WA7UVJ. Visitors were Al/KB7THX, Frank/KA7QHG, Mary/W7QGP, Mike/N7PGZ, and Ray/WA7EKH.

The meeting was called to order by Chuck/WA7EBH at 19:30, who called for approval of the minutes of the last board meeting, as published in the RELAY. Jack/KB7ZS moved they be approved, seconded by Michael/KG7MX. The board voted to approve.

Officer Reports: Nils/WB7TJK reported that everything seems to be well in hand at year end. When the new constitution and by laws were approved, special committees were formed. At the January meeting, Nils would like each of the trustees who are committee liaisons to give a brief summary of the committee's activities during 1994.

Vice President: Carolyn/WV7Q presented two applicants for membership to the

board. They were Marilyn Olson/KB7WSH, and Carl Dobrowski/WA6SGE. The board voted to present them to the membership for vote at the December membership meeting. Carolyn asked about storage of the materials that had been turned over to her. Ray/WA7EKH volunteered to store any records. After discussion, it was decided to do an inventory of the material and report back to the board for guidance on record retention.

Secretary - Ryan/N7TNI, had nothing to report.

Treasurer - Jack/KB7ZS gave the financial report to the board. As usual, financial data for the last year will be available for member's review at the next general meeting.

Activity Manager - Tom/N7VDU was excused. The drawing for the grand prizes in the raffle will be held during the GabFest following the formal business meeting. Stick around and see who the big winners will be.

Radio Officer - Ken/K7YR was absent.

Standing Committee Reports

Technical and Special Interest - Michael/KG7MX reported that Mike Cross/WB7AYU is still soliciting people who have experience using the MFJ antenna analyzers.

Public Service - Carolyn/WV7Q reported that the Salvation Army has provided the committee with a list of the facilities, and a network has been set up. There is a Mike and Key member within walking distance of each facility that has been assigned to help with communications in the event of a disaster.

Education and Training - Lew/W7QMP had nothing to report.

Strategic Planning - nothing to report.

Facilities and Publicity - Al/KB7THX has received some feedback from members on availability of trailers that the club could utilize for our emergency communications station. None of them so far have been suitable. Al will have

something on this topic published in the next RELAY.

Special Committees - Chuck/WA7EBH reported that the audit committee membership has been selected. The committee will be composed of Chuck/WA7EBH, Lew/W7QMP, Al/KB7THX, Debbie/KB7QMQ, and Doug/KB7TWJ. They will meet mid to late January, and perform the audit of the books and club assets.

Unfinished Old Business: The Budget committee met prior to the last board meeting, and came up with a proposal for a balanced budget. Jack mailed out copies to all of the board members for review. Chuck/WA7EBH presented the budget proposal to the board. Dan/N7QHC moved that we approve the 1995 budget and present it to the membership, seconded by Nils/WB7TJK. After discussion the board voted to present this budget proposal to the general membership for a vote at the December general meeting. A copy of the proposed budget will be printed in the next RELAY.

Christmas Party - Will be held at the Salvation Army Headquarters on December 10, 1994 at 18:30.

Flea Market - The next meeting will be Thursday, December 1 at 19:30 at the Salvation Army Headquarters in Renton.

New Business: Nils/WB7TJK would like to create a position in the club, where one person would be responsible for taking care of the badges, logos, ARRL membership, jackets and T-shirts. This has been taken care of by the Vice President until now. He was advised that he could appoint a person to do this if he wishes.

The board received a proposal from Ray/WA7EKH that the club donate \$1000 to help fund the Archie comic books that are published by the ARRL. They serve as an introduction to Amateur Radio for young people. Acting as a representative for the membership, Nils/WB7TJK made a motion that the club support the ARRL's Archie comic books for Amateur Radio in the amount of \$1000. Dan/N7QHC seconded the motion. The funds would be

expended from the 1994 Public Relations budget item. Dan/N7QHC reported the books are available to ARRL members, all you have to do is ask headquarters for them. Dan received a shipment of them during the last year, and distributed them to REACT. He says that at least half a dozen REACT members have become hams. Mary/W7QGP said that Mike and Key club would be listed in the books as one of the contributors. Michael/KG7MX made a motion to amend the original motion, to have the issue brought up to the general membership at the December meeting. This was seconded by Lew/W7QMP. The amendment passed a vote of the board. The original motion was also passed by vote of the board. The proposal will be presented to the general membership at the next meeting.

The board discussed having a silent auction during the GabFest at the December meeting. It was decided to not do this, since it may take away from the social activities.

Mary/W7QGP reported that W5YI sent a letter out to his VE's, saying that they were to use MCI to take the data off of the 610 forms to speed up people receiving their licenses. Mary sent this to the FCC, who said that they had not received or discussed this information with W5YI so therefore it could not be done. The material on the 610 must be scanned by the VEC before any of the information can be sent to Gettysburg. The ARRL has been able to achieve 1 1/2 day turn around on license applications using electronic filing. The FCC will begin posting new licenses on-line (don't know which system yet), and as soon as they appear, a person can get on the air. You will not longer be required to have license in hand before transmitting.

Good of the order: Lew/W7QMP mentioned the success of the antenna analyzer program the club organized, and asked if there would be interest in buying an AEA deviation meter. After discussion, it was decided that this may not be a good idea, due to technical problems with the design, accuracy and use of this product. It was asked if we could get Ken/K7YR to put on another tune up clinic at one of the general meetings.

From the Writers Block

Submitted by Michael, WA7UVJ



December is the fun time for all of us Editors. This is when we get to write those "End of Year" stories that bring back all those memories. Oh! you say nothing special happened in 1994. How about these (not necessarily in chronological order) highlights...

- The infamous Budget fight of 1994. Yes, we actually went a couple months this year without an approved budget.

- Our best ever FleaMarket, we broke all attendance records and essentially sold out on tables. Be hard to beat in 1995.

- A state law recognizing PRB-1. Kudos again to Ralph, Ray, and others who pushed this through after several years of trying.

- A new, and totally different 610 form and the promise of electronic filing, vanity calls, and a new computer at the FCC. (This one will be still going next year.)

- The..... GENERATOR!! Nuff said about that one.

- Nils Halstrom as Club President?

- Field Day 1994, with the worlds youngest and prettiest Novice Band Chairs. However, we did get plastered by the WWDXC - (still have to get them a trophy).

- Visits from our two European members Leif/LA7OO and Gerhard/DL8GBP.

All in all, a pretty good year. Hope you enjoyed yours. I know mine was pretty busy and the future looks to hold the same.

Speaking of busy, there are a

couple important items of Club in the near future that require your attention.

First, we have a new budget proposal for 1995. You'll find it elsewhere in the Relay. It hold several years of figures for comparison purposes and to fill up empty space. Be prepared to vote on it at the December meeting. Remember this..., you can only approve or disapprove the budget; no amending at the Club meeting.

Second, the Club elections are only three months away. It is time to consider your choices for Officers or possibly you would like to become a Club Officer. Think about it.

At this point, I would like to implore you to have a safe and happy holiday season and a fantastic New Year. From Diane and myself, 73 and 88.

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MIKE & KEY AMATEUR RADIO CLUB 1995 BUDGET

	1991 ACTUAL	1992 ACTUAL	1993 ACTUAL	1994 BUDGET	1994 ESTIMATE	1995 PROPOSED
REVENUE						
DUES	\$1,700.00	\$1,868.00	\$2,256.00	\$2,100.00	\$2,115.00	\$2,114.00
FIELD DAY CAMPING	170.00	0.00				
FIELD MARKET	4,500.00	11,217.53	11,479.00	12,400.00	11,072.00	10,288.00
INTEREST	170.00	417.50	903.00	600.00	596.00	600.00
MISCELLANEOUS	184.00	101.00	54.00	100.00	2.00	100.00
BADGES-NAME TAGS	99.00	122.00	96.00	100.00	75.00	75.00
RAFFLE	660.00	91.47	326.00	300.00	325.00	325.00
TOTAL INCOME	\$7,483.00	\$13,817.50	\$15,114.00	\$15,600.00	\$14,185.00	\$13,502.00
EXPENDITURES						
FIELD DAY						
GAS	\$20.15	\$65.70	\$44.00	\$55.00	\$0.00	\$55.00
CAMPING (W.W. & Bks.)	263.75	145.25	0.00	0.00	0.00	500.00
TRAILER FEES	6.65	87.57	181.00	100.00	0.00	500.00
TOW VEHICLE	10.00	23.30	0.00	0.00	128.00	75.00
PARTY EXPENSE	100.00	157.10	0.00	200.00	150.00	200.00
SANIT-CAN	150.00	200.00	210.00	250.00	220.00	230.00
OTHER EXPENSES (REPAIR)	89.21	0.00	501.00	300.00	322.00	350.00
PARK RESERVATION FEES	52.00	65.17	13.00	25.00	84.00	90.00
CAPITAL EXPENDITURES				500.00		500.00
FIELD DAY TOTAL	\$691.76	\$744.09	\$1,099.00	\$1,430.00	\$904.00	\$2,075.00
PICNIC						
FOOD AND POP	\$200.00	\$300.00	\$300.00	\$300.00	\$231.24	\$300.00
OTHER EXPENSES	0.00	0.00				
PICNIC TOTAL	\$200.00	\$300.00	\$300.00	\$300.00	\$231.24	\$300.00
COMMITTEES						
TECHNICAL & SPECIAL INTEREST						
PUBLIC SERVICE				\$80.00	\$0.00	\$80.00
EDUCATION & TRAINING				80.00	0.00	80.00
STRATEGIC PLANNING				80.00	0.00	80.00
FACILITIES & PUBLICITY				80.00	0.00	80.00
TOTAL	0.00	0.00	0.00	\$400.00	\$0.00	\$400.00

CHRISTMAS PARTY 1991 (act) 1992 (act) 1993 (ACT) 1994 BUDGET 1994 ESTIMATE 1995 PROPOSED

PARTY	1991 (act)	1992 (act)	1993 (ACT)	1994 BUDGET	1994 ESTIMATE	1995 PROPOSED
CHRISTMAS PARTY TOTAL	\$200.00	\$0.00	\$225.00	\$300.00	\$300.00	\$300.00
	75.00	150.00	75.00			
	75.00	125.00	75.00			

BANQUET

AWARDS	\$200.00	\$144.99	\$119.00	\$150.00	\$180.00	\$200.00
PRIZES	400.00	400.00	700.00	600.00	600.00	600.00
ENTERTAINMENT)*	50.00	0.00				
OTHER EXPENSES)*	50.00	86.00	22.00	125.00		125.00

BANQUET TOTAL	\$700.00	\$630.99	\$841.00	\$875.00	\$780.00	\$925.00
*Combined for 1994						

RELAY	RELAY	RELAY	RELAY	RELAY	RELAY	RELAY
POSTAGE	\$700.00	\$655.34	\$613.00	\$700.00	\$650.00	\$700.00
PRINTING	1,565.00	1,482.30	1,409.00	1,650.00	1,581.00	1,600.00
SUPPLIES	15.00	0.00	0.00	50.00	0.00	50.00

RELAY TOTAL	\$2,280.00	\$2,137.64	\$2,022.00	\$2,400.00	\$2,231.00	\$2,350.00
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FACILITIES

UNANTICIPATED EXPENSE			\$0.00	\$180.00	\$0.00	\$50.00
MEETING HALL RENT		\$630.00	745.00	900.00	900.00	1,080.00
GOODNEIGHBOR CENTER	200.00	200.00	200.00	300.00	300.00	300.00
FACILITY RENTAL TOTAL	\$200.00	\$830.00	\$945.00	\$1,300.00	\$1,200.00	\$1,430.00

REPEATER

SITE RENTAL	\$360.00	\$270.00	\$270.00	\$360.00	\$360.00	\$360.00
REPAIR	185.02	43.39	0.00	200.00	395.00	200.00
OTHER EXPENSES		0.00	24.00	50.00	0.00	50.00
CAPITAL IMPROVEMENT				250.00	0.00	250.00
NEW EQUIPMENT				500.00	527.00	500.00

TOTAL REPEATER	\$545.02	\$313.39	\$294.00	\$1,360.00	\$1,282.00	\$1,360.00
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MISCELLANEOUS ITEMS	MIKE & KEY AMATEUR RADIO CLUB					
	1991 (act)	1992 (act)	1993 (ACT)	1994 BUDGET	1994 ESTIMATE	1995 PROPOSED
OFFICERS EXPENSES	\$18.77	\$43.35	\$108.00	\$100.00	\$84.00	\$100.00
STATE FILING FEE	35.00	50.00	10.00	10.00	10.00	10.00
BANK SERVICE CHARGES	48.45	16.00	16.00	25.00	71.00	25.00
TRAILER LICENSES (2)	48.25	52.00	49.00	60.00	49.00	55.00
INSURANCE	247.00	247.00	252.00	252.00	252.00	275.00
WWARA MEMBERSHIP	0.00	24.00	24.00	0.00	24.00	12.00
PRINTING (NON RELAY)	0.00	504.00	504.00	100.00	14.00	100.00
PUBLIC RELATIONS	1,349.45	564.23	2,047.00	2,003.00	729.00	1,000.00
GUEST SPEAKER	0.00	0.00	0.00	0.00	0.00	0.00
P.O. BOX	30.00	35.00	35.00	35.00	35.00	35.00
UNANTICIPATED EXPENSES	545.10	49.72	242.00	250.00	550.00	250.00
NAME TAGS-BADGES	134.92	166.50	557.00	500.00	842.00	500.00
CAPITOL EXPENSES		1,185.00	2,526.00	2,000.00	0.00	2,000.00
TOTAL MISC.	\$2,456.94	\$2,408.80	\$6,370.00	\$5,335.00	\$2,660.00	\$4,362.00

EXPENSE SUMMARY						
FIELD DAY TOTAL	\$691.76	\$744.09	\$1,099.00	\$1,430.00	\$904.00	\$2,075.00
PICNIC TOTAL	200.00	300.00	300.00	300.00	231.24	300.00
COMMITTEES					0.00	400.00
CHRISTMAS PARTY TOTAL	350.00	275.00	375.00	300.00	300.00	300.00
BANQUET TOTAL	700.00	630.99	841.00	875.00	780.00	925.00
RELAY TOTAL	2,280.00	2,137.64	2,022.00	2,400.00	2,231.00	2,350.00
HALL RENTAL TOTAL	200.00	830.00	945.00	1,300.00	1,200.00	1,430.00
TRAINING/(EXCHANGE-'92)	0.00	18.91	14.00	0.00	(19.86)	0.00
TOTAL REPEATER	545.02	313.39	280.00	1,360.00	1,282.00	1,360.00
TOTAL MISC.	2,456.94	2,408.80	6,370.00	5,335.00	2,660.00	4,362.00
TOTAL EXPENSES	\$7,423.72	\$7,658.82	\$12,246.00	\$13,700.00	\$9,568.38	\$13,502.00

TOTAL INCOME	\$7,483.00	\$13,817.50	\$15,114.00	\$15,600.00	\$14,185.00	\$13,502.00
TOTAL EXPENSE	(7,423.72)	(7,658.82)	(12,246.00)	(13,700.00)	(9,568.38)	(13,502.00)
PROFIT OR (LOSS)	\$59.28	\$6,158.68	\$2,868.00	\$1,900.00	\$4,616.62	\$0.00

MIKE & KEY ARC CALENDAR

December 11, 1994 - January 14, 1995

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
Dec 11 ARRL 10M Contest	Dec 12	Dec 13 7:30pm WWDXC Meeting	Dec 14 7:30pm Club Net on 146.82 Repeater	Dec 15 7:00pm Public Service Net 7:30pm PARS Meeting	Dec 16	Dec 17 10:00am Club Meeting 1:00pm VE Exams
Dec 18	Dec 19	Dec 20	Dec 21 <i>Winter begins</i> 7:30pm Club Net on 146.82 Repeater	Dec 22 7:00pm Public Service Net	Dec 23	Dec 24
Dec 25 <i>Christmas</i> 	Dec 26	Dec 27 7:30pm Board Meeting	Dec 28 7:30pm Club Net on 146.82 Repeater	Dec 29 7:00pm Public Service Net	Dec 30	Dec 31  <i>New Year's Eve</i>
Jan 1 <i>New Year's Day</i>	Jan 2	Jan 3	Jan 4 7:30pm Club Net on 146.82 Repeater	Jan 5 7:00pm Public Service Net	Jan 6	Jan 7 9:00am Boeing ARC Meeting 1:00pm VE Exams - Kent (KF7VG)
Jan 8	Jan 9	Jan 10 7:30pm WWDXC Meeting	Jan 11 7:30pm Club Net on 146.82 Repeater	Jan 12 7:00pm Public Service Net	Jan 13	Jan 14 8:00am SeaTac Repeater Group 10:00am VE Exams - Riverside Inn 1:00pm NAPRA Meeting