



# K7LED Relay

Volume 25, Number 12

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December, 1997

## The Prez Sez:

*Chuck Benefiel, N7STR*

Here it is already, Christmas. It has just snuck up on us, all tipitoe (or is that missile-toe) to catch us completely unprepared. This has been an exciting year for our club, and myself. It has gone by quickly, but at times it seems like forever. This club has had so



*Seriously folks,....*

many successes in its last year. We had one of the most successful Flea Markets in our history. In comparison to nation wide trends, we were a huge success, maintaining excellence in operation and club membership involvement, and we didn't slip in our attendance like so many other organizations reported in their results. I think it has a lot to do with our offering to the Ham community and the community at large a quality operation, with reasonable admission, and product that appeals to a larger group and entices them to attend. This club can and should be very proud of the dedicated committee chairs and the club membership that put on our Flea Market every year, in the spirit of perpetuating our hobby.

We had a wonderful awards banquet, that included so much dedicated work by so many. We had a fantastic Field Day, again, something that can't happen without the committed workers, planning, band chairing, setting up and taking down. A membership that pulls together to make our Field Day such a success.

So many of our members participate in community service events, such as parades, street fairs, the Special Olympics, walk-a-thons, bike-a-thons, road rallies, food drives, flood watches, ARES, search and rescue, MARS, and emergency preparation. Each and every one of these functions require people who not only make a commitment, but keep their commitment to make sure that things run and function properly.

We had a wonderful club picnic, with some of the best food, sharing, and joking that I've ever experienced. Throw in behind the scene work parties, antenna raising, teaching, sharing with scouts, and schools, and you find a well rounded club with many talents.

We have had our Christmas party, and it too is always a way for our club to generate the fellowship, laughter and giving that are all, such important parts of this club. Those three items, fellowship, laughter, and giving, are the glue that holds any organization together. Take away any one of these essential ingredients, and you have an organization without the commitment required to survive. Any group that can't visit together, joke together and help each other without expectation of reward is doomed.

Since becoming President of the Club, I have worked hard to maintain those principles, from the monthly meetings, to the functions this club puts on, to representing our club in the rest of the community, both Ham and the general public.

My Christmas present came early this year, when you elected me as your president. I want to thank all of you, the Board, the Committee chairs, the volunteers, the membership, the friends, and even the enemies, (I was told a long time ago that, if you don't have at least 5 enemies you aren't doing your job), for this opportunity to represent your club. It was an honor when I was elected, it has become a gift as I have served. This club is so fortunate to have so many quality people in it's membership. You make the job of being president of the best Club in the Northwest look so easy. *Merry Christmas.*

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## General Meeting Minutes 11/15/97

*Melissa Donimirski, KB7TFF*

**Officers present:** President - Chuck a.k.a. Buster (N7STR), Vice President - Sam (N7RHE), Treasurer - Chuck (WA7EBH), Activities - Larry (AB7FJ), Radio Officer - Harry (W7JWJ), Trustee #1 - Al (KB7THX), Trustee #2 - Mary (W7QGP), Trustee #3 - Pete (K7WTG), Trustee #4 - Jeremy (W7YG), Trustee #5 - Adrian (KB7BVL), RELAY Editor - Jack (N7IHS).

**Officer Reports**

**President:** Chuck a.k.a. Buster (N7STR) reminded everybody that the coffee fund is self-sup-

porting, and to take breaks on the West side of the building so as not to be in front of the chapel entrance. Chuck asked that all be responsible amateurs and to join the ARRL as they are our weight with the government. He also reminded all to sign the roster, including the visitors. The General meeting minutes were approved as printed in the Relay. Fleamarket meeting held and everything is going good. Dec. 4 is the next one. ARRL license exams now at the Salvation Army at 1 PM. They are no longer at the Good Neighbor Center. Salvation Army has suggested that we assist with security for the bell ringers. All you need is a hand held and an imposing look. If you are interested, talk to Frank (KA7QHG).

**Vice President:** Sam (N7RHE) presented some applicants for membership. They were: Bruce Burrow (NP), Mike (KC7UFT) and Ronnie (KC7UFS). Mike and Ronnie were voted into family membership.

**Secretary:** For your reading pleasure: A Logger's Bark, Maple Valley ARC newsletter, and World Radio.

**Treasurer:** Chuck (WA7EBH) announced that the books are open for any and all who would like to peruse them, and that the Club is solvent. The audit committee: Mike (KB7YXB), Bob (WB7QNB), Peter (KB9MLT), Al (KB7THX), Adrian (KB7BVL). There will be a budget meeting Monday if you have input for the budget.

**Activities:** Larry (AB7FJ) announced the day's activity would consist of Bill's (KL7BB) presentation on Morse Code to take you from 5 to 40 wpm. Raffle: \$25 & \$15 gift certificates to Radio Depot, and 2 \$10 "Listen ahead write behind" Morse code books.

Also, all the year's money collected from the raffle will go into 2 raffle gifts, and all the tickets bought over the whole year will be drawn from.

**Chairman of the Board:** Jeremy, (W7YG) addressed the complaint that the club is rude to speakers by putting them after the general meeting. However, this is necessary to ensure that the business meeting happens, and there is enough time for it to happen. There are Christmas Party food sign-ups going around. The Christmas Party will be potluck on Dec. 6, and also a \$5 gift exchange.

**Radio Officer:** Harry (W7JWJ) notified everyone that there was information on the FCC maximum permissible exposure limits on the tables. The repeaters working fine, the backup repeater hopefully should be at the next meeting for demonstration. The 220 repeater has had lightning protection added, which cost \$47. In addition, Harry sent \$10 to Olympia to keep us current.

**Relay:** Jack (N7IHS) announced that the new Roster would be printed soon, don't forget to make sure your call signs, etc. are correct.

#### Committees

**Fleamarket:** Chuck (WA7EBH) announced that there are sign-ups going around. They still need a chair for the Country Store. Meetings are 7:30 the first Thursday every month.

#### Input Box:

- Pete (KC7IVI) announced that the Radio Club of Tacoma is planning to teach Extra and Advanced class classes. If you're interested in carpooling for the Extra classes, please contact Pete.
- The Logo committee reminded everyone that this is the last month to sign up for logos for Christmas. Don't forget, 4 orders are necessary before jackets can be ordered.
- Harry (W7JWJ) announced that Franklin High School is putting together a Ham Radio video with only kids in it. If you're interested in helping/contributing talk to Harry.

## From The W7JWJ Notebook Operation Upgrade

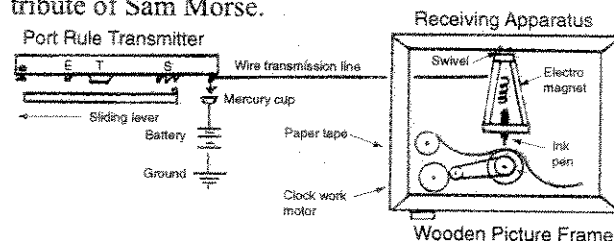
### The Evolution of a Repeater - Part 4

It is the year of 1815 and bookies are using crude telegraph systems to relay results of horse races from the New Jersey race track. Gullible bettors simply had not chance when the outcome of the race was already known. Elsewhere in New York State a constable passing an individual attaching a wire to fence posts stopped to inquire what was happening and was informed that it was the construction of a telegraph line to the next village. This was contrary to New York law that prohibited communication between private citizens, except via the post office, and the constable ordered the removal of the wire. That law has yet to be repealed.

During the early 1820's, telegraphic systems spread across Europe and even into China. Seberling showed his version of the telegraph to the Czar of Russia who banned it from his country anticipating that it might be used as a tool of espionage. Each such system experienced two problems at international borders, first the language barrier and second the incompatibility of the various systems used. The receiving operator at the border would first have to translate the message and then 'repeat' it into the system of the second country. The throughput was indeed limited. A third problem was the resistance of the wire which limited the distance over which a single telegraph system might function.

With the development of the electromagnet by co-inventors Bill Sturgeon of England and Joseph Henry of the United States, telegraphic systems became much more practical. The armature of the electromagnet had the capability of making contact with secondary contacts and thus the signal could be 'repeated' into that secondary system which was actuated by its own local battery. In the late 1820's Henry visited Sturgeon in England and together they also visited Cooke and Wheatstone and showed them how to improve their electro-magnets now being used in the ABC telegraphs.

On the ship that returned Henry to America was another passenger, Sam the American, who had hid out in England during the War of 1812. Sam was importing photographic equipment. As the ship debarked London it passed over 5 telegraph cables in that now crossed the English Channel. Several days later as Sam debarked he told the skipper, "if you ever hear of the telegraph - remember that I Samuel F. B. Morse invented it". Modesty was not an attribute of Sam Morse.



Telegraph of Sam Morse

## You Missed a Great Party

*Darla Harris, KC7SIT*

If you were one of the 65 members, spouses, children, parents, and guests who attended the Mike & Key Christmas party, you don't need to read this (unless you hope to see your name in print). You know what a grand time we all had.

If you didn't attend here's what you missed: The party was hosted by our Board of Directors this year. As in most committees, a few things were overlooked. Al Hopwood, KB7THX, got to the Salvation Army building to start decorating and no one else showed up for some time. He was complaining about getting cold. They all came and got the rooms and tables done very nicely.

There was a singing tree that set the mood for Christmas celebrations for everyone as they walked in. The gifts to be exchanged were piled high on the table - there were 60 gifts this year! We found seats or added more seats to the tables that each had a poinsettia as a centerpiece. We talked, nibbled, and drank spiced apple cider, eggnog, or coffee as more and more people crowded in. Our featured guests were Captain and Mrs. Halverson. Chuck Benefiel, N7STR, our president reminded us of how generous the Salvation Army and the Halversons have been to let us use their building for general meetings, board meetings, committee meetings, and now our testing sessions.

Many had remembered to bring canned goods to contribute to the Salvation Army kitchen. After a few minutes of confusion, someone established a place for our donations and it went like clock work from then on. We have also had some members volunteer to ride "shot gun" on some of the Salvation Army's bell ringers in the evenings. We are helping each other very well.

Soon we were directed by Chuck to begin filling our plates. We went into the coffee and doughnut room by tables - sort of as if we were kindergartners. Those at the end were sure there would be nothing left for them to eat, but they were wrong. There were turkeys, hams (of course), potato dishes - white and sweet, fresh veggies, dips, salads of many types, breads, cranberry sauce, dressing, gravy, and I can't remember the rest. We piled our plates high and began the eating part. Later we went back for pies and cakes and cookies and more cider, eggnog, or coffee. In fact, there was a steady stream of eaters going back all evening. There was a little left over, too.

When most were through with the serious eating, Chuck began the gift exchange. It took two hours for us to exchange 60 gifts. You see, when your number was called, you could take a gift from the table or take a gift someone else had. The gift could only be "stolen" three times. Some gifts were very popular. Al, KB7THX seemed to always get the gift someone else wanted. He had a hard time holding on to a gift, but finally managed to keep one. There was much laughing, clapping, and hiding of gifts. We all left

## Do You Have Kit Problems?

The Mike & Key Club sponsors a number of activities to promote the 'fun' of Amateur Radio. One of these has been our 'Elmering Program' complete with build-it kits. Apparently, some who purchased the last two kits (direction finder and 40M receiver) have experienced some technical difficulties after they were completed.

So, for the next phase of the Elmering Program (sponsored by our own Education Committee), The Mike and Key ARC would like to make the following offer to those who are the proud owners of any of the three program kits that still isn't completed and operating, for whatever reason:

- 1) you can have your own personal Elmer (builder/member) to help you get it completed correctly.
- 2) An 'expert' (builder/member) will build it for you. (No charge and no effort on the your part will be required).
- 3) If the kit has frustrated you beyond belief, and you just would like to be rid of the thing for whatever reason, the Mike and Key will buy it back from you. (The re-purchased kits will be made available to other buyers. Note: Carolyn's been looking for an Oscillator Kit.)

Bring your non-functioning kit to the next meeting. The Radio Officer will help you with the 40M receiver and the Chairman of the Board will help you with your direction finder. For a refund, take your kit to the Treasurer. See the front of the Relay for their names and numbers if you can't attend the next meeting.

Once this phase is complete and our Elmers are available for more construction projects, what shall we kit and build next? Any ideas? Carolyn, WV7Q, want's to know. You can contact Carolyn at, [carolynp@sprynet.com](mailto:carolynp@sprynet.com) or at any Mike and Key meeting or function. More fun to follow.

## Special Christmas

*Chuck Benefiel, N7STR*

Christmas time is a very special time of year. It is a time when we not only receive gifts, but it is our chance to give as well. You all know me as Chuck Benefiel, N7STR, President of the Mike and Key Amateur Radio Club, but before I was ever a Ham, I was associated with "The Gene (The Highway Hero) Cantrell Xmas Dinner" for the homeless and underprivileged. For the past 8 years we have averaged approximately 600 or more dinners served on Xmas day at the Tacoma Convention Center in conjunction with the Sheraton Hotel and distributed toys and clothing along with Peggy's Cinnamon Rolls, The Cimmaron Restaurant, The Inn at Gig Harbor, West One Bank, U S West Bank, Emergency Food Network, many local churches, Hyatt Pontiac, and the radio stations that Gene has been affiliated with.

Now I know what's going through your mind. He's going to hit us up for money. Well your wrong.

Last year we had a tremendous need for blankets, heavy jackets, heavy shirts, gloves, heavy socks, and warm infants clothing. Quite frankly we didn't have enough. In fact when it came to infants clothes, we had very little. I am soliciting the Ham community in the hopes of having you search your closets, drawers, and storage areas to secure some donations of the aforementioned clothing items. I would like you to bring them to our Christmas Party where I will pick them up and store them until our event takes place on Christmas Morning. We need clean clothing that is in good condition. If you have any back packs, used toys or stuffed animals, and again I emphasize in good clean condition, we can use them too.

I thank you for your interest, and I look forward to a positive response from the Ham community. Please direct your questions to Chuck Benefiel, <cbenefiel@sprynet.com>, or by phone to (253) 312-5341.

### Board Meeting Changed

The Board meeting has been change due to the Holidays. The meeting will be held on Tuesday December 30th at 7:30 PM in the Renton Salvation Army Headquarters. As usual all interested Mike & Key ARC members are invited to attend

### VHF/UHF Happenings

*Jim Christiansen, K7ND*

Started November off with the fifth edition of the Pacific NW VHF/UHF Conference. This years event was held November 1 at the Fife Community Center. Speakers included W7ZOI (HB spectrum analyzer), W7PUA (local propagation tracking), W7LHL & KD7TS (using SSB packet for high speed meteor scatter contacts), NU7Z (eme requirements on the microwave bands) and KK7B (binaural receiving techniques). Lots of tall stories were swapped by the 42 attendees and all the doughnuts were consumed. Pat, N6RMJ, traveled the farthest by a large factor to attend. Len, W7MCU, from the M&K ARC won the 1st place door prize of a 9 element 2m antenna. A grand time was had by all. Next years event will be in Bend, OR, on September 26, 1998, hosted by Don, K7HSJ.

November is Leonid meteors shower time. This years shower peaked on Monday the 17th. There was considerable hype in the ham magazines and QST had a very good article of things to expect. This shower has a history of having a 33 year cycle of storm level activity. 1999 is supposed to be the next big one with a progressively larger increase in activity until that year. All the pundits are hedging their bets on what will happen. From my standpoint 1997 was better than 1996 and am looking forward to the next two years.

The meteor activity started increasing at 1100z and kept going until 1800z. All of the activity which I

listened to was on the calling frequency of 144.2 MHz. The burns were usually long (about 40 seconds) during which time you could hear stations from AZ, CA, NV, UT, CO and NM. The burns were about every 8-10 minutes with several lasting up to 2 minutes. Signal strength would vary from S5 to +10. Sounded almost like a HF contest.

I heard over 30 different stations, most of whom I have worked in the past. Did manage to work 3 new grids out of the 5 contacts I completed. WA1IED/7, Ray, worked K6PF in southern CA with just 25W and a modest antenna. Several NW stations worked WA6HXD, DM23, SE CA, who was running just 25W. It was the best meteor shower I have ever worked/heard and am looking forward the next two year. Now, if the months of November just weren't so far apart.

The next meteor shower is the Geminids, December 13th. K7ND

### On the Positive Side

More in saga of finishing my new house. I found that when perched on a short ladder, trying to nail a 2x4 to the ceiling with a nail gun, and can't find a place to hang on to, it definitely is not a good idea to nail your finger to the wall. First I found out that the finger wants to shed the nail real quickly (approximately 25 milliseconds), secondly there is not enough time to get another nail in before you hit the floor. This incident and others will be covered in more detail in my upcoming fictional novel titled "Finishing a New Home and Loving It". Specific details are covered in chapter 4 "How To Stop Bleeding On The Way To The Emergency Room". This incident is also referred to in chapter 3 "Learn To Get A Rush from Pain" and Chapter 9 "Medical Costs, A Real Part Of The Construction Budget".

I really think that I am in close running for the "Overlake Hospital Emergency Room Patient of the Year" award. I could lock it up but my wife now won't let me use my power tools now without close supervision.

Now to Club Members who have a life. **Allan Hughes** (KB7SVU) has been elected Vice-President of the Radio Club of Tacoma and **Calvin Doss** (KC7IYP) was elected Vice-President of the Bears Radio Club. Jan Van Allen has upgraded to the Extra Class license. Graduations to these guys.

I really have to comment on the picture that appears on the first page of this issue. I am slightly hard of hearing and with all of the laughter I didn't understand what was happening when this picture was taken. From what I see the incident was either a portable 2 meter antenna, a Charlie Brown Christmas Tree look-alike contest, or a lighting rod demonstration. Personally I like the idea of N7STR as a lighting rod!

I want to wish all of you a safe and happy holidays, *Merry Christmas* and a *Happy Hanukkah*.

## Christmas 1997

*Bill R Balzarini. KL7BB*

This is a 1997 Christmas thank you to people who spent time on the club build-it projects. Between 15 & 20 helpers & Elmers have spent countless hours to make the excitement of ham radio appear in our build it projects. I say build-it projects and not kits because our projects also included real people willing to help in all of the hundreds of ways that new comers need to get the projects completed.

I would like to thank Carolyn (WV7Q) for her insight and focus to get youth & beginners together in building introductory ham radio projects. Also for her efforts to get instructors to teach and others to help bag up all of the parts. The students received instruction via six computers that allowed them to see computer aided design in selecting the parts values used in the CPO as well as how to build the code practice oscillator. I would like to thank Ray Leslie (WA7EKH) for his PC Board design work and the primary work he did on the Rev 2 of the CPO. This makes us ready for the next wave of code practice oscillators to be used in conjunction with M&K Club ham radio classes.

I would also like to thank Earl Palmer for his interest in the DF'er project. He built several QST article DF'ers and was the one who proposed the unit that the club members built. I used his prototype QST / FAR Circuits DF'er and was amazed as to how well the unit worked. I would like to also thank Sam Sullivan (N7RHE) and Earl Palmer (N7EP) for helping out during the long Saturday afternoons when many members assembled the DF'ers. During the testing session we found one DF'er that worked and 2 that had trouble with the type of switching diodes supplied. We quickly made replacements of diodes and capacitors available to all.

I would like to thank Mike Dinkleman (N7WA) for supplying the Fancy Single Balanced Mixers. 35+ at \$22.00 each (current Price) gave us \$770.00 of premium grade mixers. They work from DC to 600 MHz. (I won't mention that they were left out on the back tables for anyone to take and find a use for them).

About the same time as the mixers appeared, I found a QST article for a simple receiver project. (August 1995). To my surprise the Mike Dinkleman Mixers plugged right into the schematic. I purchased a PC Board from FAR Circuits and built a prototype. As the project developed more and more parts were made available at little or no cost. Jerry Seligman (W7BUN) supplied the majority of the crystals for the 40 meter novice band. KL7HFQ scrounged about Alaska and found some more crystals. (FT-243 xtals now cost \$ 25.00 each from JAN crystal.) approx. 100 crystals at \$25 each = \$2500.00 of current Value.

Jim Kirkreit (K7YLM) supplied the CD ROM that had the entire project in ready to print format. This allowed us to give each receiver builder a complete booklet about the project.

At the Mike & Key Fleamarket we located variable

capacitors from Doug (KD7GB) at a very low price and a quantity discount was given to us. We also found FT-243 Style holders for our 40 meter xtals.

WV7Q again worked her magic with parts suppliers for ICs Capacitors, Resistors and chokes and received excitingly low bids for the parts that we need to buy. Even FAR Circuits gave a nice quantity discount. Dave Swartz (KC7RRH) located a grand price on small 12 volt power supplies for those who wished to purchase shore power.

My special thanks go to Harry Lewis W7JWJ for adding so many 100's of hours making the receiver, not only receive, but transmit, and become a code practice oscillator, and a general coverage receiver. Harry has really enhanced this project, by drawing on his many many years of teaching electronics and ham radio classes.

As you can see many people have stepped forth and contributed their talents and expertise over the course of 3 projects. I am estimating that well over 600 volunteer hours have been contributed to make these real ham radio projects happen.

We have charged a fare price to the members who individually paid for the DF'er and Receiver build-it projects. Because of good fortune at buying and scrounging components, we are sad/happy to report that we made a profit of approximately \$130.00 on the DF'er project and currently have a small profit on the RX project. When the remaining 15+ receiver projects are sold there will be an additional profit of \$450.00. Add \$450.00 to \$130.00 and we have a total of \$580.00 that can be used to start the next Mike & Key real ham radio build-it projects.

If we had to pay for all of our talented folks time (600+ hours at \$35.00 per hour) (I used the current Dollar rate that my little girl's piano teacher charges to teach a 5 year old) we would need to have \$21,000.00 of income just to pay people. Divide the \$21,000.00 by the number of projects 126 (60 CPOs + 36 DF'ers + 30 RECEIVERS ) equals \$ 166.00 dollars of value in people who contributed their time per individual project. Even at half the rate the value per project still sits at \$83.00 per project just in peoples time. If you add in all of the great parts deals \$2,500 + \$770 + 21,000 that totals \$ 24,270.00 Twenty Four Thousand Two Hundred and Seventy Dollars.

We have a great amount of talent among all of us to contribute back to the new beginners. Lets put more real ham radio projects in the hands of the folks that can make our hobby grow. What is your idea? 73's and Happy Holidays. You now have my Xmas Letter.

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## 1998 Budget

The following two pages contain the Mike & Key ARC Operating Budget for 1998. It was prepared by the Budget Committee and approved by the Mike & Key ARC Board of Directors on November 26, 1997. It will be submitted for the membership's approval at the December meeting.

## Mike & Key ARC 1998 Proposed Operating Budget

### Revenue

|                      |                   |                    |                    |                    |
|----------------------|-------------------|--------------------|--------------------|--------------------|
| Dues                 | \$2062.00         | \$2,023.00         | \$1,400.00         | \$2,000.00         |
| Flea Market          | \$7,000.00        | \$8,500.00         | \$9,000.00         | \$9,000.00         |
| Interest             | \$60.06           | \$100.09           | \$90.00            | \$100.00           |
| Miscellaneous        | \$825.65          | \$932.45           | \$150.00           | \$200.00           |
| Badges/Name Tags     | (\$30.00)         | \$13.00            | \$90.00            | \$100.00           |
| CD Cash-Out          | see next year     | see next year      | \$2,919.17         |                    |
| <b>Income Totals</b> | <b>\$9,920.71</b> | <b>\$11,568.54</b> | <b>\$13,649.17</b> | <b>\$11,400.00</b> |

### Expenditures

#### Field Day

|                            |                   |                 |                   |                   |
|----------------------------|-------------------|-----------------|-------------------|-------------------|
| Gas                        | \$22.38           | \$21.29         | \$29.57           | \$40.00           |
| Trailer and Tow/Ferry Fees | \$209.98          | \$33.62         |                   | \$50.00           |
| Party Expense              | \$160.00          | \$185.01        | \$118.78          | \$200.00          |
| Sani-Cans                  | \$220.00          | \$260.00        | \$260.00          | \$300.00          |
| Other Expenses (repair)    | \$204.6           | \$16.23         | \$86.31           | \$100.00          |
| Park reservation Fees      | \$195.00          | \$215.00        | \$245.00          | \$250.00          |
| Capital Expenditures       |                   |                 | \$491.00          | \$500.00          |
| Camping Fees               |                   |                 |                   | \$600.00          |
| Bug Spray                  | \$165.8           | \$25.00         | \$300.00          | \$360.00          |
| <b>Field Day Totals</b>    | <b>\$1,177.76</b> | <b>\$756.15</b> | <b>\$1,530.66</b> | <b>\$2,400.00</b> |

Note 1

Note 1: Pay camping fees for Wagon Wheel, Barracks, and campground for Friday &amp; Saturday

#### Summer Picnic

|                             |                 |                 |                 |                 |
|-----------------------------|-----------------|-----------------|-----------------|-----------------|
| Expenses                    | \$247.67        | \$199.72        | \$200.00        | \$200.00        |
| <b>Summer Picnic Totals</b> | <b>\$247.67</b> | <b>\$199.72</b> | <b>\$200.00</b> | <b>\$200.00</b> |

#### Committees

|                              |                |                 |                 |                   |
|------------------------------|----------------|-----------------|-----------------|-------------------|
| Technical & Special Interest |                |                 |                 | \$200.00          |
| Public Service               |                |                 | \$512.47        | \$1,000.00        |
| Education & Training         | \$51.60        | \$860.00        |                 | \$500.00          |
| Strategic Planning           | \$11.90        | \$53.27         |                 | \$200.00          |
| Facilities & Publicity       |                |                 |                 | \$200.00          |
| <b>Committees Totals</b>     | <b>\$63.50</b> | <b>\$913.27</b> | <b>\$512.47</b> | <b>\$2,100.00</b> |

Note 2: Information books and web page.

Note 3: for Ham class materials.

#### Christmas Party

|                               |                 |                 |                 |                 |
|-------------------------------|-----------------|-----------------|-----------------|-----------------|
| Expenses                      | \$199.70        | \$253.51        | \$250.00        | \$250.00        |
| <b>Christmas Party Totals</b> | <b>\$199.70</b> | <b>\$253.51</b> | <b>\$250.00</b> | <b>\$250.00</b> |

#### Annual Banquet

|                              |                 |                   |                   |                   |
|------------------------------|-----------------|-------------------|-------------------|-------------------|
| Awards                       | \$197.94        | \$302.33          | \$343.00          | \$350.00          |
| Prizes                       | \$584.46        | \$500.00          | \$519.00          | \$500.00          |
| Other Expenses               |                 | \$22.81           | \$149.00          | \$200.00          |
| Meal Subsidy                 |                 | \$196.32          | \$313.00          | \$400.00          |
| <b>Annual Banquet Totals</b> | <b>\$782.40</b> | <b>\$1,021.46</b> | <b>\$1,324.00</b> | <b>\$1,450.00</b> |

Note 4

Note 4: Meals at about \$7.00 per person (55 people)

#### Relay and Roster

|                                |                   |                   |                   |                   |
|--------------------------------|-------------------|-------------------|-------------------|-------------------|
| Postage                        | \$810.09          | \$840.08          | \$1,000.00        | \$1,000.00        |
| Printing                       | \$790.41          | \$1,183.55        | \$1,200.00        | \$1,200.00        |
| Supplies                       | \$44.52           | \$81.45           | \$100.00          | \$100.00          |
| Miscellaneous                  |                   | \$147.20          |                   |                   |
| <b>Relay and Roster Totals</b> | <b>\$1,645.02</b> | <b>\$2,252.28</b> | <b>\$2,300.00</b> | <b>\$2,300.00</b> |

#### Facilities

|                          |                   |                   |                   |                   |
|--------------------------|-------------------|-------------------|-------------------|-------------------|
| Meeting Hall Rent        | \$1,180.00        | \$1,080.00        | \$1,200.00        | \$1,400.00        |
| Good Neighbor Center     | \$500.00          | \$200.00          | \$200.00          | deleted           |
| Storage Locker           | \$222.77          |                   |                   |                   |
| <b>Facilities Totals</b> | <b>\$1,902.77</b> | <b>\$1,280.00</b> | <b>\$1,400.00</b> | <b>\$1,400.00</b> |

| <b>Repeater</b>               |            |            |            |            |        |
|-------------------------------|------------|------------|------------|------------|--------|
| Site Rental                   | \$450.00   | \$360.00   | \$360.00   | \$360.00   |        |
| Repair                        |            |            | \$403.00   | \$500.00   |        |
| Other Expenses                |            |            |            |            |        |
| Capital Improvement           |            |            |            |            |        |
| New Equipment                 |            |            |            |            |        |
| Repeater Totals               | \$450.00   | \$360.00   | \$763.00   | \$960.00   |        |
| <b>Miscellaneous Expenses</b> |            |            |            |            |        |
| Officer Expenses              | \$102.37   | \$165.43   | \$71.00    | \$100.00   |        |
| State Filing Fee              | \$10.00    | \$10.00    | \$10.00    | \$10.00    |        |
| Bank Service Charges          | \$44.33    | \$24.00    | \$8.00     | \$50.00    |        |
| Trailer Licenses (2)          | \$49.25    | \$49.25    | \$41.00    | \$45.00    |        |
| Insurance                     | \$252.00   |            | \$325.00   | \$350.00   |        |
| WWARA Membership              | \$24.00    |            | \$12.00    | \$12.00    |        |
| Printing (non Relay)          | \$129.43   | \$80.58    | \$350.00   | \$200.00   |        |
| Public Relations              | \$681.28   | \$787.42   | \$870.00   | \$1,000.00 | Note 5 |
| PO Box Fee                    | \$40.00    | \$40.00    | \$40.00    | \$40.00    |        |
| Unanticipated Expenses        | \$2,307.79 | \$247.00   | \$145.00   | \$250.00   |        |
| Name tags/badges              | \$24.03    |            | \$6.25     | \$50.00    |        |
| Capital Improvement           |            |            | \$845.00   | \$500.00   | Note 5 |
| Miscellaneous Totals          | \$3,664.48 | \$1,403.68 | \$2,723.25 | \$2,607.00 |        |

Note 5: Various Projects not specified.

#### Expense Summary

|                 |             |            |             |             |
|-----------------|-------------|------------|-------------|-------------|
| Field Day       | \$1,177.76  | \$756.15   | \$1,530.66  | \$2,400.00  |
| Summer Picnic   | \$247.67    | \$199.72   | \$200.00    | \$200.00    |
| Committees      | \$63.50     | \$913.27   | \$512.47    | \$2,100.00  |
| Christmas Party | \$199.70    | \$253.51   | \$250.00    | \$250.00    |
| Annual Banquet  | \$782.40    | \$1,021.46 | \$1,324.00  | \$1,450.00  |
| Relay & Roster  | \$1,645.02  | \$2,252.28 | \$2,300.00  | \$2,300.00  |
| Hall Rental     | \$1,902.77  | \$1,280.00 | \$1,400.00  | \$1,400.00  |
| Repeater        | \$450.00    | \$360.00   | \$763.00    | \$960.00    |
| Miscellaneous   | \$3,664.48  | \$1,403.68 | \$2,723.25  | \$2,607.00  |
| Expense Totals  | \$10,133.30 | \$8,422.07 | \$11,003.38 | \$13,667.00 |

#### Budget Recap

|                |              |             |              |              |        |
|----------------|--------------|-------------|--------------|--------------|--------|
| Income Totals  | \$9,920.71   | \$11,568.54 | \$13,649.17  | \$11,400.00  |        |
| Expense Totals | -\$10,133.30 | -\$8,422.07 | -\$11,003.38 | -\$13,667.00 |        |
| Profit or Loss | -\$212.59    | \$3,146.47  | \$2,645.79   | -\$2,267.00  | Note 6 |

Note 6: Difference from 1997 carry over (savings)

Note 7: CD and interest rolled over for a 1 year renewal (we don't need to touch it).

## Board Meeting Minutes 11/26/97

Melissa, KB7TFF

**Officers present:** President - Chuck a.k.a. Buster (N7STR), Vice President - Sam (N7RHE), Treasurer - Chuck (WA7EBH), Secretary - Melissa (KB7TFF), Radio Officer - Harry (W7JWJ), Trustee #2 - Mary (W7QGP), Trustee #4 - Jeremy (W7YG), Trustee #5 - Adrian (KB7BVL). Visitors were: Nils (WB7TJK), Ray (WA7EKH), Eleanor, Lew (W7QMP), and Scott (KC7UOC).

### Officer Reports

The Board minutes were approved as printed in the Relay.

**President:** Chuck a.k.a. Buster (N7STR) announced that the next Board meeting would be on December 30.

**Vice President:** Sam (N7RHE) presented some applicants for membership. They were: Brian

(KC7YJR), Sean (KC7WNY), Ted (KC7ZEO), Rob (N7QT) and Daniel (KL7WM). All were approved for a membership vote at the General meeting.

**Treasurer:** Chuck (WA7EBH) announced that the books are open for any and all who would like to peruse them, and that the Club is solvent. He presented next year's budget for approval. The budget was approved by the Board.

In addition, regarding some build-it kits sold by the Club that do not work; the Board voted to offer to fix the project for the member who bought it, or, if necessary, buy the kit back.

**Activities:** Larry (AB7FJ)'s recurring suggestion about Mike and Key pens for the membership will be referred for discussion at the General meeting.

**Chairman of the Board:** Jeremy, (W7YG)

**Radio Officer:** Harry (W7JWJ) notified everyone that the WWARA dues are due Dec. 6 for renewal. They are \$12.00.

**Committee Report**

**Public Service:** Jeremy (W7YG) announced that money has been set aside in the Public Service budget for the Web Page. Jed (KE7JED) has volunteered to be WebMaster to set up and maintain the page consistently for several years. Chuck (N7STR) officially appointed Jed the WebMaster.

**Education:** Mary (W7QGP) announced that 50 books have been distributed to New Options Middle School in Queen Anne.

**Facilities:** Ray (WA7EKH) built a table for the closet, but was prevented from installing it. It will be put in as soon as we have clearance from the Salvation Army.

**Field Day:** Co-chairmen are Brian (WA7PVE) and Jed (W7JED); Chuck (N7STR) will be elmering them should they require any assistance. The Wagon Wheel is on schedule.

**Flea Market:** About half the tables are sold (150 of 300). The next Fleamarket meeting will be December 4. The Fleamarket will take place March 7. A chair of the Country Store is still needed, contact Chuck (WA7EBH) if you would like to fill this position.

**Old Business**

Some factions of the Club have shown up wanting to use the Salvation Army building for their meetings. Please be advised that the only meetings from the Mike and Key Club authorized to take place in the Salvation Army building are the Board meetings, the General meetings, and the Fleamarket meetings.

Mary bought 500 books for distribution to schools. Only \$300 is now in the Education committee budget. To cover the difference money will be taken from the Committee fund.

**New Business:**

Nils (WB7TJK) volunteered to put together a group named the K7LED Morse Code/DX Group to encourage use and proficiency in Morse code, and to announce our presence as a Club by using the Mike and Key QSL cards. The Board approved this endeavor.

Scott (KC7UOC) proposed a phone line connected to a voice mail system for interested persons to call to leave messages or receive messages regarding Club activities. This was deferred for discussion to the Long Range Planning committee.

Ray (WA7EKH) ordered 20 handbooks which should be available at the next General Meeting. He also announced plans for compiling a database of what members say they'll do when they fill in their application for membership. Also, he will be getting a class started for new Amateurs, working in conjunction with the Education committee. The next education committee meeting will be December 2nd at the Southcenter Denny's.

**Events Calender****December**

**December 10th, Wednesday** - Mike & Key Net, 7:30 PM on 146.82 repeater

**December 11th, Thursday** - Public Service Net, 7:00 PM on 146.82 repeater

**December 17th, Wednesday** - Mike & Key Net, 7:30 PM on 146.82 repeater

**December 18th, Thursday** - Public Service Net, 7:00 PM on 146.82 repeater

**December 18th, Thursday** - Long Range Planning Committee, 7:30 PM at Denny's Southcenter

**December 18th, Thursday** - Public Service Committee, 7:30 PM at Denny's Southcenter

**December 20th, Saturday** - Mike and Key General Meeting, 10:00 AM at Renton Salvation Army

**December 20th, Saturday** - Technical Committee, 9:15 AM at Renton Salvation Army

**December 20th, Saturday** - Facilities Committee, 9:15 AM at Renton Salvation Army

**December 24th, Wednesday** - Mike & Key Net, 7:30 PM on 146.82 repeater

**December 25th, Thursday** - Public Service Net, 7:00 PM on 146.82 repeater

**December 30th, Wednesday** - Mike & Key Board Meeting, 7:30 PM Renton Salvation Army

**December 31st, Wednesday** - Mike & Key Net, 7:30 PM on 146.82 repeater

**January**

**January 6th, Tuesday** - Education Committee Meeting, 7:30 PM Denny's Southcenter

**January 7th, Wednesday** - Mike & Key Net, 7:30 PM on 146.82 repeater

**January 8th, Thursday** - Public Service Net, 7:00 PM on 146.82 repeater

**January 13th, Thursday** - Long Range Planning Committee, 7:30 PM at Denny's Southcenter

**January 13th, Thursday** - Public Service Committee, 7:30 PM at Denny's Southcenter

**January 14th, Wednesday** - Mike & Key Net, 7:30 PM on 146.82 repeater

**January 15th, Thursday** - Public Service Net, 7:00 PM on 146.82 repeater



## Buy, Sell, Trade, or Wanted



*This column is available members and relatives or friends of member (no dealers please) who have electrical/electronic equipment (including computers and software) related to Amateur radio for sale or trade. Ads will be run for two months unless the editor is notified otherwise.*

### **For Sale**

- HENRY 2K3 Amplifier (Export Model) on floor pedestal, 3.5 to 30 meters (includes 10 meters), in excellent condition. Asking \$650.00 non-negotiable.

Contact: Bob Castaneda KC7QR at 425-334-9000 (Sno County).

### **For Sale**

- MFJ-1796 Verticle Antenna 40-10 meters + 6 & 2 meters. Very good condition with the original manual - \$115.00 - pick up only in Bellevue, WA.

Contact Jed - W7JED (425) 641-5370 or e-mail <jedson@foxinternet.net>.

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