



K7LED Relay

Volume 25, Number 11

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November, 1997

The Prez Sez Chuck Benefiel, N7STR

The is more to life than survival, we all search for our god, and we all search for a meaning to life. It is like the excitement of the hunt, you're looking for something, you haven't found it yet, but you always feel its just over the next horizon, it's not frustration it's the excitement. It is a natural part of the perpetuation of the human species, we are always on the threshold of a new age. Man was at that threshold at the beginning of Ham Radio. We were at that threshold at the beginning of telephones, of radio, television, astronomy, aircraft development, space exploration, electronic microchips, computer development and we are on the threshold today for the next new age that will be created by our youth of today, and their youth of tomorrow.

I have long had a personal observation that everything always has been, always is, and always will be exactly the way it's supposed to be. That, no matter what happens, life will work it out. That everything we experience, as children, adolescents and adults follows that rule. The reason I feel that way has been created from personal experience. I also have developed an attitude that there is no good or bad in my world. Many of the things that I considered good, turned out to be bad, and from many of those bad things, I learned and grew, and that was good. Well, I feel the same way about progress.

Progress affects as many people and institutions negatively, as it does positively. It is the progress of Ham Radio's developments that frustrate so many that got where they are in our hobby by building kits, and experimenting with electronics. In each and every one of our early Ham Radio lives I'm sure we were Elmer'ed by someone. Someone who loved the hobby. They weren't in it to make a buck, but they were in it to perpetuate the hobby, to pass it on and to make it grow. One of our members passed on a thought to me recently, that he thought that each and every member should be required to try to find some youth to bring into the club within the next year. The immediate thought I had was *Great Idea*. Then reality set in. That also would mean 100% growth in the club, and from my vantage point no organization can handle that much growth and remain healthy. The second thought I had, though, I feel is realistic.

I feel this club needs to create an Amateur Radio Youth Club Sponsorship Fund, which will be available to any School System for the purpose of developing a Ham Radio Club for their students. The same way that Pop Brown started the Mike and Key Club, for a group of youth that participated in its creation, and of which many are still are a part of its on going operation. I feel we should be helping schools with a Pop Brown Amateur Radio Youth Club Sponsorship Fund which would help teachers get established with an operating station at their school, get the Club started for students, and then turn it over to the youth to become an ongoing self supporting group within the school. The real challenge will be to not just provide the equipment and funds for this project, but who within our club are willing to give of their time and experience to nurture, show pa-

tiency, and provide guidance for these clubs to grow and prosper like the Mike and Key. Not for just the purpose of perpetuating our hobby, but to be a small part of helping the youth of today discover that New Age of development that is on their Horizon.

I know from experience that this club has wanted to create some form of Scholarship Fund. I don't feel that a club that was created to perpetuate a group of youth, should try to perpetuate just one youth. I feel it should try to perpetuate all youth, not to deal with personalities, but to promote principles. If you agree with me, let me know at the next meeting. If you don't, let me know that too. I believe that Pop Brown had a dream, I don't know if this is it. I do know that this club has also been looking for a purpose for its fund raising. If you feel this purpose fits, can it become your purpose too?

General Meeting 10/18/97

Melissa Donimirski, KB7TFF

Officers present: President - Chuck (N7STR), Vice President - Sam (N7RHE), Treasurer - Chuck (WA7EBH), Secretary - Melissa (KB7TFF), Activities - Larry (AB7FJ), Radio Officer - Harry (W7JWJ), Trustee #2 - Mary (W7QGP), Trustee #3 - Pete (K7WTG), Trustee #4 - Jeremy (W7YG), Trustee #5 - Adrian (KB7BVL).

Officer Reports:

President: Chuck (N7STR) reminded everybody that the coffee fund is self-supporting, 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.

Chuck asked for a motion to approve the minutes as printed on handouts placed on each table. The minutes were approved as printed on the handouts.

Chuck announced that the Club placed 4th in the nation in the Field Day contest, in the 6A division.

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The closest other Northwest Club placed a far distant 14th place. Congratulations for a successful Field Day. Next year's Field Day co-chairs will be Jed (W7JED) and Brian (WA7PVE).

The "Swaying in the Wind" award, and the "Most Valuable Player" awards were presented to Alan (KB7SVU). The picnic dessert contest award was presented to Karen Balzarini for her homemade boysenberry cobbler.

A letter was received from the ARRL to thank the Club for the contributions for the Archie comic books. \$42.25 was collected in pocket money, and this was added to the \$200 the Board voted to contribute to the fund.

The next Flea Market meeting will be on November 6 at 7:30 PM at the Salvation Army headquarters. A sign up is going around today for all to sign up to work at the flea market. Chuck reminded everyone that more helping hands means less work for everyone to do. There is a need for a chair of the Country Store. The Country Store is where members who are working during the Fleamarket can sell their wares since they would be unable to manage a table due to their involvement in the Flea Market. There are also openings for sub-chairs of various committees. See Chuck (WA7EBH) if you would be interested in a position. This year if you work the flea market you will be entitled to free admission and the right to have your stuff sold at the Country Store. Don't forget that this Flea Market raises most of the Club's money; dues barely cover the costs of the Relay.

The Christmas party will be handled by the trustees this year - it will be held from 6:00 PM to 9:00 PM on the first Saturday in December.

Chuck announced the good news that AEA is back in business.

Vice President: Sam (N7RHE) presented some applicants for membership. They were: Bruce (KC7VCQ), Anthony (KC7RAZ) and Patricia (NC). All were voted into membership.

Secretary: Melissa (KB7TFF) presented The Logger's Bark, the newsletter from the Radio Club of Tacoma which she received in the mail.

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.

Activities: Larry (AB7FJ) announced that today's program would be Mary Lou Brown (NM7N).

Radio Officer: Harry (W7JWJ) notified everyone that the QCWA Board meeting brought to everyone's attention an 8 year old Extra: Rebecca (KB0VVT). In addition, Harry is curious about some new repeaters that would allow 7 simultaneous voice conversations to happen at the same time on one repeater. Harry thinks that this is definitely a wave of the future.

Relay: It was announced that our Relay editor, Jack (N7IHS) had an accident, and for this reason no Relay was printed this month.

Chairman of the Board: Jeremy (W7YG) announced that the Board meeting is always the last Wednesday of the month at 7:30 at the Salvation

Army. All members welcome to sit in.

Committee Reports:

Facilities: Pete (K7WTG) announced that we have builder and ideas, but need a designer for the closet.

Public Service: Jeremy (W7YG) announced the intentions of the Public Service committee to put together a web page, if you have any ideas, please let him or Vic (N7YPB).

Some public service activities going on will be the Auburn Veterans Day Parade Nov. 8 - talk in 146.58. Also coming up are the Seattle Marathon and the Arthritis Walk. Please contact Chuck (WA7EBH) if you are interested in any of these.

Education: Mary (W7QGP) announced that the Education committee would like to put together some training classes. The next meeting will be Nov. 4 at 7:30 at the Southcenter Dennys.

Input Box:

- The Logo Committee has badges ready for pickup; please come see if yours is ready. Also, new Aussie hats are available, with your call on printed on them. Don't forget that 4 orders are necessary for jackets to be ordered.
- Don't forget to sign up to work at the Flea Market!
- Ray (WA7EKH) is again orchestrating the selling of ARRL handbooks, if we can get together a group of 10 or more people, ARRL will pay the shipping costs. The handbooks are selling for \$21.34 with tax.

Members Help the Boy Scouts

The following letter was addressed to Jim Christiansen (K7ND) and brought to my attention by Chuck Benefiel (N7STR).- ed.

Hello Jim:

On behalf of Boy Scout Troop 626, I wanted to thank you for your role in finding a host location for this years' JOTA event. Thanks to your efforts, we hooked up with Paul & Adrian Roth (N7DOH and KB7BVL respectively). It is my understanding that they are both members of the Mike and Key Club.

On Sunday, October 19, 1997, we had 7 Scouts, myself and one other dad visit the home QTH of Paul and Adrian. They were great hosts!! We started with a look at the antennas, a Yagi and Diploe. Then we moved inside, where Paul explained all of the elements of his station, including transceiver, antenna tuner, power/SWR meter, power supply, microphone and Key/keyer combo.

We spent close to two hours making several contacts, including one with PY2DZ, in southern Brazil. The Scouts were very interested and excited with all they saw and did. I believe that most if not all of the Scouts present will go on to get their Radio Merit Badge. It is also likely that at least some of them will become amateur operators as well. All in all, in was great. We even had a plate of cookies to pass around!!

I might add that Carolyn, WV7Q was also instrumental in putting me in touch with Paul and Adrian.

So, once again I thank you for "getting the ball rolling" through the Mike And Key Club.

73, Mark Sandler, KC7JHZ

On The Positive Side

We have a special congratulation to **Raleigh Elkins** (WB7WNF) who has upgraded to a General Class license. Raleigh joined the Mike & Key ARC in 1977 and has held a Technician license all that time. I know that a couple of his "friends" have given him a hard time about the upgrade for years. Now they will probably start on him about a Advanced Class upgrade.

Jack Burrell has a new call sign **W7JTB** (formally known as KB7ZS). A couple of e-mail address changes are **Ray Leslie** (WA7EKH) has changed to wa7ekh@prodigy.net and **Dan Hale** (KC7IEI) has changed to kc7iei@worldnet.att.net. **Calvin Doss** (KC7IYP) wants his e-mail address, kc7iyp@aol.com, added to the roster. I believe that that covers the roster changes. If I have left some one out please contact me.

I want to apologize for not getting the October Relay out, I hope it did not create too many inconveniences. As some of you know I had a couple of medical problems. Let me explain.

I was using a small 5 1/2 inch circular saw to cut up some scrap lumber. Yes the guard had been wired open by my contractor when he was putting on the siding and I should have removed the wire. After cutting a piece of wood, I brought the saw (still running) along side my right leg. The saw blade caught in my warm-ups and was sucked in to my right leg. Fortunately the saw jammed before it could cut in to far. Obvious lesson learned "never saw scrap wood in warm-ups on a Sunday" (probable also should check the saw guard to see if it working properly).

So I am standing there with this saw attached to my clothes, unable to remove it. My wife was in the house down stairs and unable to hear me and the saw was plugged into an extension cord which was buried in the sawed wood. It took me about ten minutes to get the cord unplugged while holding the saw. I finally got my wife to come and help me. We had to take off my warm-ups and under shorts (the saw ate them too, all that was left on the right side was the band) we laughed about it for about 100 milliseconds until we saw blood then it was off to the Overlake Hospital Emergency Room.

While lying in the ER, a portion of my brain that is seldom used (some people say that most of it is seldom used) suddenly went in to action and found out that I was in the ER. It sent out the message to the rest of my body "we're in ER are we having a heart attack?" My heart, which had been extremely over worked lately, caught the words 'heart attack' and

bingo it decided to stop and take a break.

On the positive side my saw injury is about healed up, my heart has had some rest and seems to be working OK, and that portion of my brain that I mentioned has gone back to sleep and most of all, I'm alive.

The story is not complete without telling you of the number of e-mails, telephone calls and visits that I had from Mike and Key members. Under these circumstances you find that the Mike and Key ARC is more than just a club it's an extended family of people who care about each other. People who where giving me a hard time about the Relay 3 or 4 months ago were now sincerely concerned about me. It gave me a very warm feeling and changed in my attitude about people forever. Thank you all for caring. - ed.

ARRL 1998 Handbooks

Ray Leslie, WA7EKH



Here we are again Boys and Girls, just in time for Christmas. We have a deal this year on the ARRL Handbooks that every Ham needs in his or her library.

An e-mail was sent to the ARRL for the price of Handbooks and I was pleasantly surprised when they e-mailed back the price of \$21.34 is we order over 10 and \$20.48 if we order over 50.

This is going to be an one-shot order, so all of you who want a Handbook please bring your **money** or **check** to the November meeting and I'll see that you get a Handbook for Christmas.

Mike & Key Home Page

Michael Dinkelman, N7WA



It's been a year since the temporary Mike and Key ARC Home Page went up. I know we have a group working on getting a permanent one set-up but as this one needed some updating - I did the following:

- The Flea Market info is current for 1998.
- The Mike & Key information document has been updated with the new area codes and links.
- I put up some pictures of Field Day 1997 from Fort Flagler (more coming).
- I added some links to Home pages of Club members.

I would the following if anybody has such information:

- Links to local Clubs (I already have the WWDXC) home pages.
- Links to more member home pages (if you have one and want it linked).

Send me (mwdink@eskimo.com) your e-mail address if you would like it listed on the page. I do have a list of e-mail address for club members now but as this would be public, I would need your express permission to put it on the page.

Anything else you think would be neat to have on the page (subject to good taste, appropriate nature, and my editing... i.e. - No jokes from Buster).

I look forward to seeing the efforts of the Club's Web working group come on-line, but until then, I will try to keep this a bit more current (albeit not fancy).

Annual Christmas Party

The Mike and Key Christmas party will be held on Saturday, December 6, 1997 at the Salvation Army building. There's no admission charge, but we ask that you bring a side dish or a desert for the pot luck. Check the sign-up sheets at the next general meeting to see what's needed. The club will supply the Turkey and the Ham. We start eating at 6:00 PM, so please arrive around 5:30 or so.



In keeping with the tradition started by Don and Katie, please bring a gift (\$5 or under) for the gift exchange. Past exchanges have been a laugh-riot. In addition, the Christmas party is the place where the Activities Chairman holds his grand prize drawing. So don't miss it! We'll see you there.

From the W7JWJ Notebook

The Evolution of a Repeater - Part Three

The year is 1812 and England is at war with the United States and France. So as not to be drafted, an American is playing it cool and staying in an apartment overlooking the river Thames. Downstream he can see that someone is erecting some tall poles in the backyard of a boys school. Did Sam, the American, visit this school to see what was happening? We don't know.

Well, in 1815 the experimenter, a lad by the name of Francis Ronald, held an open house at the school, to demonstrate what he had been working on. It was called an ABC telegraph. It consisted of two identical clockwork driven machines. Each containing a wheel with the letters of the alphabet imprinted around its circumference. These wheels were viewed through a small opening so that only one letter at a time could be seen. Eight miles of wire was strung between those big poles and passed above both machines. Connected to the wire and directly above the wheel of each machine was suspended two gold leaves. When an electrical charge was placed upon the wire, both sets of gold leaves would open. At the first opening both sets of wheels were set in motion.

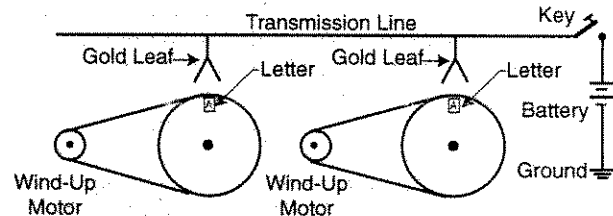
When an appropriate letter was seen through the viewing window a telegraph key was depressed and the operator at the far end would write down the letter or 'repeat' it to an assistant.

Prince Albert was one of the visiting dignitaries to see this demonstration as well as several interested families. One family, the Wheatstones, makers of fine piano attended with their young son Charles. Another family, and friends, were the Cookes, makers of beautiful music boxes, and their young son Billy.

The French/British war is now over and the Cooke family has moved to France. On a trip to Germany they again see a demonstration of a telegraph system. This time at the university in Munich and set up by a Professor Steinhilf and two students Gauss and Weber.

Upon returning home, Bill Cook will 'invent' an ABC telegraph driven by one of his music boxes. Meanwhile over in England his friend Professor Charles Wheatstone has also 'invented' an ABC telegraph and has strung 8 miles of wire around his physics lab.

The ABC telegraph relied upon an insulated transmission line that would accept an electrical charge. During the next decade the electro-magnet will be invented and it will make the telegraph practical.



The ABC Telegraph

Christmas Sprit

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.

Education Committee

Ray Leslie WA7EKH

I guess I made to much noise in regard to teaching Novice-Technician classes. I am now registered with the ARRL as a Teacher or Instructor for this type of Operation.



Now, from where I stand I don't know who else in the Club is interested in education, but in order to get this thing going a lot of help will be needed. I can see great results if there are enough Members willing to lend their assistance. As this is not a one person job.

I am asking for sincere volunteers to makeup the Education committee and it looks like at least five or six will be needed. I'll do some explaining at the November meeting.

Local 10 GHz Activity

Jim Christiansen, K7ND

Your eyes aren't playing tricks on you, that is a "G" in the heading. Over the last several years a few area hams have been working on equipment for the 10 GHz band. W7LHL, Graham, WA, and W7PUA, Marys Peak, OR have been working each other via signal bounce off of Mt. Rainier. W7LHL and KD7TS, Des Moines, WA have been working via the Olympic Mts. and over the direct route.

This last spring KD7TS worked W7PUA from Earthworks Park near Kent by reflecting signals off of Mt. Rainier. Mike, KD7TS, uses a SSB Electronics transverter running 1 watt into a 2 foot dish. Bob, W7PUA, runs 3 watts into a 3 foot dish. Later in May, Ernie, W7LHL, runing 2 watts into a 3 foot dish, worked W7PUA from Whiskey Dick Mt. near Ellensburg. W7PUA operates from Marys Peak near Salem, OR, taking advantage of the near 3000 feet elevation.

For the ARRL June VHF QSO party W7LHL trav-

eled to Mica Peak SW of Spokane, WA. W7PUA went to Marys Peak and KD7TS went out with K7VHF to 4000 feet Crag Mt. in the NW corner of the Olympic Peninsula. Saturday morning conditions were perfect. The day started out crisp and then warmed up. Very good tropo conditions for any band. KD7TS and W7LHL made contact over the 274 mile path with little difficulty. Ernie's solid CW could be heard all over the vhf contest site. A contact made later in the day on 2304 MHz seemed anticlimatic. Later that morning W7LHL and W7PUA made contact over a 375 mile path. Attempts between KD7TS and W7PUA didn't pan out.

In August, during the ARRL UHF contest, W7LHL went to Mt. Spokane, W7PUA went to Mt. Ashland in southern Oregon and KD7TS and NU7Z went back to Crag MT. The idea being to stretch out the 375 mile path conquered earlier. The 10 GHz path didn't repeat itself. However, NU7Z did work W7PUA on all bands from 903 thru 5700 MHz. That's 903, 1296, 2304, 3456 and 5700 MHz.

The activity is there for those who might be interested. Equipment is also available from at least two sources. Downeast Microwave and SSB Electronics have gear for all bands up to 10 GHz.

Bell Ringer Security

The Salvation Army has asked if the Mike and Key would provide a security watch for the bell ringers as they did last year. Club coordinator for this project is Frank Kreiger KA7QHG. Please contact him at the next club meeting or by calling him at (206) 243-9232 for further details, dates and times.

Easy HF Antenna

Jan Van Allen, N7WJB

A quick and easy HF antenna for those who want a compact easy to build, and install emergency antenna. Items needed: Coax with connectors, a balun 4:1, and 2 insulators then either buy or confiscate two "Slinkys".

When assembled you have a coiled dipole that doesn't tangle easily. Stretched 12-35 feet you have a 40 meter dipole, pull it out further and 75 and 80 meters are found between 24 and 70 feet.

This antenna was made commercially in the early 70's by the Teletron company from New York. SWR is stated to be 1:1.8 on 40, and <3:1 on 80. The longer you stretch it the better the SWR. If you want to read the article its in the February 74 QST, page 49.

Donated to the club, and available at the next meeting will be a considerable pile of QST, CQ and 73 magazines, all from the 70 and 80s. They are yours for the taking, sacked by year, take the whole sack please, especially good for collectors and for new hams.

Events Calendar

November 13th, Thursday - Public Service Net, 7:00 PM on 146.82 repeater
November 13th, Thursday - Long Range Planning Committee, 7:30 PM at Denny's Southcenter
November 13th, Thursday - Public Service Committee, 7:30 PM at Denny's Southcenter
November 15th, Saturday - Mike and Key General Meeting, 10:00 AM at Renton Salvation Army
November 15th, Saturday - Technical Committee, 9:15 AM at Renton Salvation Army
November 15th, Saturday - Facilities Committee, 9:15 AM at Renton Salvation Army
November 19th, Wednesday - Mike & Key Net, 7:30 PM on 146.82 repeater
November 20th, Thursday - Public Service Net, 7:00 PM on 146.82 repeater
November 26th, Wednesday - Mike & Key Net, 7:30 PM on 146.82 repeater
November 26th, Wednesday - Mike & Key Board Meeting, 7:30 PM Renton Salvation Army
November 27th, Thursday - Public Service Net, 7:00 PM on 146.82 repeater
December 2nd, Tuesday - Education Committee 7:30 PM Denny's Southcenter
December 3rd, Wednesday - Mike & Key Net, 7:30 PM on 146.82 repeater
December 4th, Thursday - Public Service Net, 7:00 PM on 146.82 repeater
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

Board Meeting 10/29/97

Melissa Donimirski, KB7TFF

Officers present: President - Chuck a.k.a. Buster (N7STR), Treasurer - Chuck (WA7EBH), Secretary - Melissa (KB7TFF), Activities - Larry (AB7FJ), Radio Officer - Harry (W7JWJ), Trustee #2 - Mary (W7QGP), Trustee #3 - Pete (K7WTG), Trustee #4 - Jeremy (W7YG).

Officer Reports:

President: The Board minutes were approved as

printed on handouts distributed to the Board.

Chuck (N7STR) presented the Board with a new By-Laws and Events calendar.

Also, Chuck received a call from a Ham wishing to buy 500 of our Public Service pamphlets. Because we no longer have that many, the Club will be unable to supply that many, however, it will remain to be seen how many can be scraped up. Jeremy (W7YG) noted that it was probably time to update the information, and fix some of the mistakes from last printing.

The Maple Valley Wireless in not testing in Auburn any more. They will now be at the Maple Valley fire station.

All Field Day information has been turned over to the new Field Day chairs.

Treasurer: Chuck (WA7EBH) announced that he has e-mailed the trustees about a budget meeting on November 17.

Activities: Larry (AB7FJ) announced that the November program will be "How to beat the Morse Code" by Bill (KL7BB). The December program will be a ragchew/get together.

Chairman of the Board: Jeremy (W7YG) said that he had received a suggestion that the program come first, and the business meeting second so all will be able to stay for the guest speaker. However, this has been tried in the past, often guests end up running over time and cutting down the business meeting time. This way, the guest speaker has more freedom.

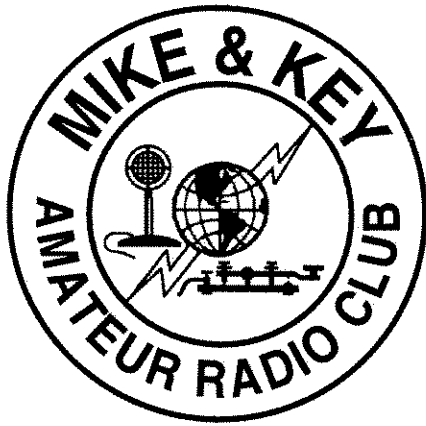
Radio Officer: Harry (W7JWJ) notified everyone that he would like to buy a lightning protector for \$47 dollars. The money will come out of the repeater budget.

Committee Reports:

Public Service: Jeremy (W7YG) let everyone know that there is still interest in the Club homepage, but that the original crew has fizzled out and now entirely new people are interested. This is okay, but it will be necessary to find a Webmaster who will dedicate his time consistently to give continuity to the page.

Education: Mary (W7QGP) announced that the ARRL has changed their policy on books/educational materials. The deal is now 50 books for \$10 a piece. In addition, Boeing is no longer allowing non-employees to partake in their license classes. Ray (WA7EKH) and Mary would like to put together a staff of teachers to teach Mike and Key Club Classes. However, there will need to be a STAFF of teachers; Ray and Mary do not want to undertake this alone.





K7LED RELAY

The RELAY is the official tabloid of the Mike and Key Amateur Radio Club. The Mike and Key ARC 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 SE corner of the Renton Airport. The Club operates repeaters on 146.82 MHz (103.5 CTCSS) and 224.12 MHz under the call sign K7LED. The following nets meet on the 146.82 repeater: the Club net on Wednesdays at 7:30 PM and the Public Service net on Thursdays at 7:00 PM. The Club's mailing address is PO Box 2121, Kirkland, WA 98083. All persons interested in Amateur Radio are invited to participate in the Mike and Key ARC and its activities. Yearly dues are \$12.00 for individual memberships and \$18.00 for family memberships.

Volume 25, Number 11

November, 1997

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Trustee No. 5

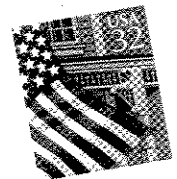
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Return To

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First Class Mail

Next Club Meeting

Saturday, November 15th at 10:00 AM
Salvation Army in Renton
720 Tobin, Renton
Doors open at 9:30 AM for donuts
Talk-in on 146.82 RPTR

Sam Sullivan N7RHE 7/98
13626 - SE 232nd
Kent, WA 98042

Next Board Meeting

November 26th at 7:30 PM
Salvation 5th Army in Renton
720 Tobin, Renton

November Program

How to beat the Morse Code
Bill Balzarini (KL7BB)



✓ Check Mailing Label for Dues Status