



K7LED Relay

Volume 25, Number 2

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February, 1998

Ken Jackson, K7PZX - A Silent Key

The following articles were submitted by Ken's step son, David Schleining, Chuck Stroehrer (WA7EBH), and Carolyn Pasquier (WV7Q) both of whom spoke at Ken's Memorial Service. You were a good friend and my Elmer, 73 Ken, from Jack N7IHS.

Obituary

David Schleining

Kenneth Howard Jackson, K7PZX, 66, passed away on February 6, in Puyallup after a brief illness.

Ken was born in Ellensburg, WA in 1931 and is survived by his wife, Kathryn Schleining Jackson, a son, Steven Jackson of Puyallup, his mother, Irma Jackson of Walla Walla, sisters Nancy Slaven of Walla Walla and Elsie Staino of Portland, OR. Also survived are grandchildren, Shaun and Breana Jackson of Idaho, two step-daughters NanSea Welsh and Janice Nielsen, a step-son David Schleining, 5 step-grandchildren and 5 step-great-grandchildren.

An avid amateur radio operator for over 38 years, he was loved by all. He never met a stranger; everyone was his friend. He was a very loving man who would give the shirt off his back to a perfect stranger in need. He enjoyed the outdoors, camping, and of course, amateur radio, which was his life. He was a Methodist. He was in the Navy and a veteran of the Korean War.

He was a member of the Puyallup Eagles, the Mike and Key Amateur Radio Club of Renton, of which he was one of the founding fathers, serving as a Trustee for many years. He was active in King County Civil Defense activities and served as a King County Radio Officer for many years. He was also a past President of the NW Country Cousins, Western Country Cousins, and the Rebels, all associations dedicated to volunteer amateur radio public service. He participated in the Military Amateur Radio Service, relaying messages for troops stationed overseas. He was retired from Toledo Scales of Seattle.

Ken will be missed by all who knew him, particularly his witty sense of humor, smiling face and laughing eyes.

Memorial services were held on Thursday, February 12, at 11:00 AM at the Hill Funeral Home Chapel in Puyallup. If desired, remembrances may be made to the Mike and Key Radio Club or the First Christian Church, PO Box 1244, Hamilton, Montana, 59840.

Remembrances

Chuck Stroehrer, WA7EBH

I have known Ken over 33 years, having met Ken through Ham radio. Ken use to call me the young whippersnapper as I was only in high school when I met him. I have many fond memories of my association with Ken.

I don't think that Ken ever met anyone that didn't become his friend. He had a personality that kind of attracted you into his life. He was also a mediator among his friends. Many times he would try and get

folks with problems together and try and settle the differences. There was a Mason Dixon line (I-90) in ham radio, and folks were referred to the northender or southender. Ken and I lived in different parts of the county, but we use to put those labels aside and met for coffee and lunch whenever our paths crossed on the job. We were labeled renegades, but who cared, we were friends. Sometimes we would hatch plots to get folks together and involved in projects. Now some of you know how we kept the radio club together for so many years during troubled times.

Ken has been a mentor and friend to many and devoted many hours to teaching young and old alike. Ken also believed in contributing public service to his community.

A good part of Ken's life was devoted to Ham Radio and other organizations. I think that sometimes, as his wife will properly agree, it was his first love.

Ken talked fondly of his days of the start of the original Mike and Key Amateur Radio Club when they use to meet in the home of "Pop" Brown, K7LED, to work on learning and building projects in Ham Radio. I believe that this instilled in Ken the dedication and commitment that he contributed in anything that he was involved with.

In the early 60's, the group dwindled as the young folks went off to college and minds changed from chasing radio signals to, as Ken put it, chasing skirts, resulting in the Club folding. Ken had the foresight to keep all of the documents of the club for possible future use.

Pete Hedberg related a story about Ken's dedication. After the club folded, Ken took up running an Amateur Radio emergency network, opening the net and calling for check-ins night after night, but no one responded. Finally after hearing this poor lonely soul calling, night after night for a month, Pete responded and a friendship was born. Pete is one of the other 15 founders of the resurrected Mike and Key club. The network grew to over 30 members thanks to Ken's persistence.

Ken was involved with the Civil Defense ham ra-

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Ken was involved with the Civil Defense ham radio network. There was a group of us that met in North Seattle in the basement of an old school code names Stardust. Ken's group known as Snowshoe was located in the basement of a King County police office, a much plusher location than ours was. Ken never did want to swap sites, no matter how hard we tried to convince him we needed duel training. Ken was always there rain or shine, with a smile and warm welcome for any visitor and took pride in showing them around.

Ken and Pete Policani got together and started a repeater in the late 60's. Those of us that used the repeater got together one Saturday in October of 1970 and reestablished the Mike and Key Club as it is today. Ken was instrumental in the startup and organization of the club. Our first meeting was held in the basement of the Civil defense site Snowshoe. Ken had the original club papers that he had kept from years before and the key, in more ways than one.

The organization restarted with 15 members (Ken made sure that it was the same number as the original club) and has grown to over 200 today. Ken contributed much to the success of the club in attending to its meetings and other events, such as camping trips, auctions, flea market.

Ken devoted a lot of his life to making sure that the Mike and Key Club met the original goals and concepts that "Pop Brown" instilled in the young folks. Thanks to Ken, this club is devoted to the betterment of Amateur Radio. Ken was not afraid to step in and make sure that we carried on the correct traditions, his shoes will be hard to fill.

Ken was always there for those that needed help, whether at an outing or if they needed a hand with a project, Ken could be counted on. He was an Elmer to many a friend. Just to let you know that Ken also had a sense of humor. I relate this true tale, since I was a passenger.

In the late 60's while traveling down a freeway near Kent en-route to Ken's house, one of our club members, who shall remain anonymous, was pulled over for exceeding the speed limit in a Volkswagen Bug. The driver was talking to Ken on the radio and happened to mention the traffic stop. The officer made the trip to ask for the license and associated documents standing just outside the window. Ken must have timed it in his head perfectly, for when the officer asked a question, Ken's voice popped out of the radio and made a comment about the officers mother wearing combat boots.

The officer was taken back. Our driver was looking for the on off switch to the radio and trying to explain what was happening to the cop, all the while Ken is muttering phrases. Well the cop started laughing, dismissed the ticket and asked for Ken's address, so he could make a courtesy call. I don't know if he ever did, but all Ken was told was there is a guy in blue looking for you.

I truly feel that Ken is now instructing God in the

finer points of ham radio. Ken was a dear friend and I felt it a privilege to know him. I will miss him. His key may be silent, but his legacy will be heard forever. 73 Ken From Chuck WA7EBH.

Remembrances

Carolyn Pasquier, WV7Q

I met Ken about 10 years ago, at my first Mike and Key Field Day. I was on a team of two women and 3 kids trying to set up the novice station for 10 Meters. Ken happened by and took pity on us. He instructed us on the fine art of antenna assembly and tower raising, but he couldn't touch anything. Ken always told the story of how we met when he introduced me to anyone. He was such a gentlemen, and the whole experience really left an impression on him, especially the five of us hoisting that tower and antenna, while all he could do was watch.

Each of the four times I ran for President and lost, Ken would encourage me to try again. "A woman can be President of the Mike and Key," he'd say, "you just need to run until they know you're serious."

When I finally became President on my fifth try, it just happened to be the year of the Club's 25th Anniversary. Ken spent many hours on the phone with me, telling me stories about our history and giving me names of the founding members. We laughed a lot. I learned wonderful terms like, Gonset Goodie Box, Pecker Tweeker, Motorola Brick, Modulated Water Closet, and Holy Toledo, here come Ken!

Just as Ken had kept the original club papers so we could reorganize in 1970, he had the 25 year old rosters and the original ones so we could locate our founders for the celebration. He and Kathryn had me to their home and copied everything for me that I needed. (boy, can she cook!)

When Ken married Kathryn, he developed a glow, a new aura that was always with him. No one could have been prouder than Ken was when Kathryn got her license.

Ken had a Unique Diplomatic Approach. He wanted everyone to get along. Whenever Ken detected a disagreement, he would find a way to become the most controversial part of the debate. By setting himself up as the common enemy, he would cause the disagreeing parties to become allies and usually friends. Somehow, he managed to become a better friend to both.

Ken was always a major part of our Flea Market. Ken loved to meet new people. He always did the early morning talk-in. For the last two years, I have taken the early shift to save it for him for his return from Yuma. Both years now, he has dumped it on me. 5:00 AM??? EEEEEK!

Ken has left his mark on our activities. He was always there, and always will be, in one form or another.

K7PZX, 88, WV7Q.

Establishment of the Ken Jack Elmer Award

Chuck Benefiel, N7STR

The Mike and Key Club lost one of its Life and Founding Members on Saturday February 6th, when Ken Jackson K7PZX, became a silent key. Ken was one of the first Presidents of the club in the 1960's, and the First Pop Brown award winner along with Pete Policani in 1971. Ken's memorial took place on February 12th, with a large group from the Mike and Key as well as many of Ken's Ham and personal friends in attendance. At the memorial Pete Policani indicated that during a moment when a group of Hams were sitting around philosophizing one day, Ken indicated that he really wished he could write music. When asked why, he indicated that after your gone from this life, your song goes on. The Board of the Mike and Key has, via e-mail, approved a motion to create a perpetual and annual "Ken Jackson Elmers Award" to be awarded at the Clubs Annual Banquet, so that Ken Jackson's song can go on. Ken elmered a tremendous number of the members of our and other clubs, not just by getting them licensed, but by assisting them as chairmen and officers as they have served within the club. The recipient will be selected by the Awards Committee which is made up of the last 3 Pop Brown Award winners.

The Pop Brown Award is for the member who best represents Ham Radio and our club in and out of the Ham Community. The Ken Jackson Elmer Award will be for the member that best represents the perpetuation of our hobby within the club, by working with and assisting Hams acquire their license, upgrading, helping to establish their stations, and being of assistance in all that being a member involves.

Our last 3 Pop Brown Award Winners are, Nils Halstrom, WB7TJK, Ralph Schumacher, WX7T, and Mike Hansen, KG7MX. This is your chance to nominate someone for the award, and all nominations will be considered by the committee.

The Prez Sez

Chuck, aka Buster, N7STR

Well here it is already, the 3rd week of February, where does time go when your having so much fun. In just a couple of weeks from now, March 7th to be exact, we have the biggest single event of the Mike and Key year, our annual Flea Market. A tremendous amount of preparation goes into this event, and this is the event that requires more club participation than any other. This is the event that we as a club are most famous for, the largest Flea Market in the Northwest and the event that all of the other ham's in and about our Puget Sound region look forward to as the beginning of what I call *Hamming Season*. We have fishing season, and hunting season, well this starts call *Hamming Season*. Hams from all over the area come to the Mike and Key Flea Market, to pick up special buys, see old friends, meet friends

they have never seen before, and learn about all the new Stuff of Ham Radio. With conditions improving on the bands, and all the new equipment out there, it's just an exciting time of year to be a Ham. On top of finding good buys on equipment, computers, and boat anchors, it's just a great event. I hope every member of the club gets to come down and participate. It's just plain old fun, hard work, good friends, and one heck of a party. Please come to the next meeting and sign up for a work detail or two. I hear security needs some more people, we also need pallet workers, country store sales people, clean up and set up. There's a job level for everyone, so *Cum'on Down & Join Us*.

Speaking of planning events, coming up in April will be the annual club awards banquet. I hope everyone plans to attend this event as well. It too involves a lot of planning, prizes, good food, visiting old and new friends, and a fun evening. Vic & Barbara Carter are planning this years Banquet and from what I hear it's just gonna be another good old club oriented fun time. You know, besides being a Ham Radio Club, this club has one heck of a lot of fun times in it's yearly schedule. We have a function just about every 3 months in which our goal is to promote visiting, sharing and good times. We had our Xmas Party in December, our Flea Market in March, Field Day in June, the club picnic in August. Throw in lots of parades, and ham related events, and we are some of the luckiest people in the world. Not only do we get to contribute to our community, our hobby, and outside organizations through Ham Radio, but we get to know a lot of great people and have a good time doing it at the same time.

I'm looking forward to seeing you all at the next meeting and at the Flea Market. So if you read this article (sometimes I wonder if anyone does), after I ask, "What Season Is It?" when I open the meeting, I want everybody who did read it to yell out call *Hamming Season*. Now remember this is our season, so decorate your HAM Trees with QSL cards from all those DX contacts from all over the world. Then come spend a special evening singing Ham Carols with a group of Hams in the Flea Market parking lot Friday Night. We will snore in unison to the sounds emitted by the Puyallup downtown environment, waiting in great anticipation for the opening of the Flea Market on *Hamday*, March 7th. I'll always remember those profound words of Chuck WA7EBH, "Train Whistles, I didn't hear any Train Whistles".

General Meeting Minutes 01/17/98

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 (K7WIG), Trustee #4 - Jeremy (W7YG),

Trustee #5 - Adrian (KB7BVL), RELAY Editor - Jack (N7IHS).

The General Meeting minutes as published in the Relay were approved.

Officer Reports

President: Chuck a.k.a. Buster (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. Frank (KA7QHJ) decided to continue doing coffee, but is taking volunteers. The ARRL license exams are now at the Salvation Army at 1:00 PM instead of the Good Neighbor Center where they used to be held. Ken Jackson (K7PZX) is doing better, but is still down and out. The Club's wishes for a quick recovery. The next Flea Market meeting will be the first Thursday in February at 7:00 PM. The education committee is needing teachers to assist with the licensing program. Please see Ray (WA7EKH) or Mary (W7QGP) if you are interested. Due to a scheduling conflict, there will be no test session put on by the Bears in March. However, that weekend is the same weekend as the Flea Market, and there will be testing there. Ray (WA7EKH) has ARRL handbooks. If you ordered one, please pick it up. There is a list of ARRL publications the Club is attempting to put together a list of people interested in buying so the books can be bought in bulk. If you are interested in this, please see Ray (WA7EKH). In QST a coaching program was presented. A manual will be passed around for a sign-up list for teachers, organizers, mentors for the coaching program. The goal of the program is to get 20 kids in a school on a teaching program to teach about radio on a regular basis to instill radio in youth. This is necessary to continue Ham Radio.

Vice President: Sam (N7RHE) presented some applicants for membership. They were: Ruth Morrow (NP), Tom NL7EQ (NP), David (N3ZPN), Buzz (W7PZO). David and Buzz were voted into membership.

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 the raffle prizes include two gift certificates to Radio Depot, and for those who feel that Radio Depot is too far away to go, there is also a \$1 gift certificate to Jack in the Box.

Chairman of the Board: Jeremy, (W7YG)

Radio Officer: Harry (W7JWJ) notified everyone that today is "Be Nice to Buster Day." At the Flea Market will be the annual CW challenge - pass 13 words per minute for five minutes without an error will win \$1000.

Relay: Jack (N7IHS) lost some address changes, so please re-send them.

Committee Reports

Education: Mary (W7QGP) announced that the

610V is a change of address, so there is no disclaimer. You can download it and use it for a change of address, however, it cannot be used as a 610B, which is for a Club, you'll need to get the new one out of the February QST. Thus, you still need the 610V, and can use it for a change of address.

Technical: Al (KB7THX) announced that the closet is nearing completion. Ray (WA7EKH) designed shelves, and Pete (K7WTG) and Al came to install the shelves and put locks on the doors. Thus, pretty soon the closet will be turned over to the Technical committee to install the antennas and radios. We are almost on the air. If you happen to know where the MFJ antenna analyzer is, let Al know.

Flea Market: Chuck announced that the Flea Market sign up is going around. Please sign up to work, so there is less work for everyone. People are needed for the pallet crew. Also, commercial booth sales are down, and, if they are not sold soon, they will be turned into basic flea market tables. There will be a dinner Saturday night after the Flea Market subsidized by the Club for those who work.

Input Box

• Dick (K7NEX) is looking for someone to climb a tree - he has a 50 foot tree he would like to be a support for his 80 meter loop.

I Ask for a Break, Not for a Hand I'm Being Polite on The 10 Meter Band

Eric Gronau, N7TQC

- N - for November a month in fall
 7 - A number it belongs to my call
 T - For Tango a dance with a dip
 Q - For Quebec a Province, a Capital with a Radio Shack
 C - For Charlie a masculine name, an emperor a king a tuna from Spain
 I have to pause for a snack
 Don't go away I'll come right back
 E - For echo that rings to the house, it come from the kids not from my spouse
 R - For Romeo, I'm not that guy, only heaven knows why
 I - For India a land so far away, but by radio it is seconds - less than a day
 C - For Charlie what a food friend, he comes sometimes over to give me a hand
 That is my personal, I'm not a fame So listening closely for the rest of my name
 G - For golf a sport what a drag, they drive a ball and carry a bag
 R - For Romeo, I told you before, it is not me but the guy next door
 O - For Oscar who could it be, is it a pet or is it a tree
 N - For November, it is late in fall, there is Thanksgiving turkey and all
 A - For Alfa oh what a gal, if I was not married she would be my pal

U - For uniform for me and you, and Old Glory in red, white, and blue
 Now you know my name, please hold the applause
 wouldn't you like to know how to get to my house
 T - Tango a dance with a dip
 A - For Alfa, a gal in a red slip
 C - For Charlie, a friend he could be
 O - For Oscar, it could be a tree
 M - For mike, the guy I' talking to
 A - For Alfa, a gal what would like to write to you
 W - For whiskey, boy what a drink
 A - For Alfa you remember her, she is my shrink
 I still have some numbers, like 98446
 They are for the Post Office, no for the kids
 You are listening and thinking boy what a ham
 Please get some paper and grab your self a pen
 I'm no perfect, and forgetful too
 So send me a card, and I will get back to you
 I come to the end and 73's to you all
 Have a fine day, and here is my call
 N7TQC

Fleamarket Updates

Mike Dinkelman, N7WA

The response to my plea for workers last month must have worked. We now have over 100 members (and non-members) signed up to help out. My thanks to you all.

For those who did sign up, your badges will be available at the February meeting. You are responsible for not losing or misplacing it. If you pick up a badge for someone else, you are responsible for getting it to them. This has worked well in the past two years and I hope to keep the streak alive. For those who cannot pick up their badges (and didn't make prior arrangements like mail), the badges will be available on site, in Puyallup. Work assignments will be the responsibility of the individual chairs. They will have a list of your names and the time periods you indicated that you would be available.

It's time to start thinking about Setup - for those who signed up to do so. Setup will begin at 10:00 AM at the Expo Hall. This gives us 4 hours to lay out 300 tables and a similar number of chairs. Bring gloves, work shoes, and a strong back. (Maybe some Ben-Gay or Doan's pills?) Even if you don't have physical strength, we can use you for detail work. Tables need alignment, chairs and table numbers need dispersal, and skirting must be installed. Specialty task groups - such as phone installers - need to be getting organized.

What is the status of the fleamarket? Well, table sales seem to be right on the mark with historical norms. The first floor has been sold out since December and the second floor is about half way there. Commercial sales seem to be down which probably reflects the state of the Amateur Radio market in general. We've lost both Seattle stores over the past couple years as well as some garage type outfits and

that hurts. On the bright side, that has enabled us to open up the first floor to some more individual table sales. If you know any one interested in a commercial booth - let us know, as there is still some prime real estate available.

We are taking a bit of gamble this year expanding our advertising with ads in the Tacoma News Tribune. This is an effort to bring in more than just Hams. To help determine if it works, we made the ad into a coupon worth an extra drawing ticket. If we get a lot of coupons back, then success. If not, well ... we tried.

It's looking good for 1998. With your help, it will be. See you there.

1998 Hamfest Calendar

(Taken from the NW Division Newsletter)

Feb. 21	Salem Hamfair, Rickreall, OR
March 7	Mike and Key Fleamarket, Puyallup, WA
March 28	Eugene Hamfest, Eugene, OR
April 4	Clark County Hamfest, Vancouver, WA
April 11	Pendleton ARC, Pendleton, OR
April 25	Keno ARC, Klamath Falls, OR
April 26	Umpqua Valley ARC, Roseburg, OR
May 9	Stanwood/Camano Hamfest
May 9	Portland Hamfest, Hillsboro, OR
May 16	Yakima Hamfest, Selah, WA
May 29-31	SeaPac, Seaside, OR
July 17-19	Glacier-Waterton Hamfest, MT
July 24-26	Northwestern DX Convention, Seattle, WA
July 31-Aug 2	3905 Century Club, Bandon, OR
Aug. 1	Coos Bay ARC Hamfest, Bandon, OR
Aug. 8	Bend Hamfair, Deshutes Cty. Fairgrounds, OR
Aug. 8	Tacoma Fleamarket, Tacoma, WA
Aug. 8	Spokane Hamfest ?
Aug. 15	LCARA, Longview, WA
Sept. 19-20	Anchorage Hamfest, Anchorage, AK
Sept. 26-27	Fairbanks Hamfest, Fairbanks, AK
Oct. 3	Nampa Hamfest, Nampa, ID

Bears March Test Session Canceled

"Due to unforeseen circumstances in facilities scheduling the BEARS test team is unable to perform testing in the month of March 1998. March is the only month affected, testing will resume in April, 1998, as scheduled, at the Kent Washington test site, Boeing Recreation Center.

It seems the facility has been committed to a fencing tourney the entire weekend and all rooms will be in use. We regret this cancellation has been made, and look forward to returning to normal operations in April.

Mike & Key ARC Testing Canceled for February

There will not be a test session at the Salvation Army in February by the Mike and Key ARC.

Events Calendar

February

February 18th, Wednesday - Mike & Key Net, 7:30 PM on 146.82 repeater

February 19th, Thursday - Public Service Net, 7:00 PM on 146.82 repeater

February 21st, Saturday - Mike and Key General Meeting, 10:00 AM at Renton Salvation Army

February 21st, Saturday - Technical Committee, 9:15 AM at Renton Salvation Army

February 21st, Saturday - Facilities Committee, 9:15 AM at Renton Salvation Army

February 25th, Wednesday - Mike & Key Board Meeting, 7:30 PM Renton Salvation Army

February 25th, Wednesday - Mike & Key Net, 7:30 PM on 146.82 repeater

February 26th, Thursday - Public Service Net, 7:00 PM on 146.82 repeater

March

March 4th, Wednesday - Mike & Key Net, 7:30 PM on 146.82 repeater

March 5th, Thursday - Public Service Net, 7:00 PM on 146.82 repeater

March 20th, Saturday - Mike & Key ARC Fleamarket

March 11th, Wednesday - Mike & Key Net, 7:30 PM on 146.82 repeater

March 12th, Thursday - Public Service Net, 7:00 PM on 146.82 repeater

March 18th, Wednesday - Mike & Key Net, 7:30 PM on 146.82 repeater

March 19th, Thursday - Public Service Net, 7:00 PM on 146.82 repeater

March 21st, Saturday - Mike and Key General Meeting, 10:00 AM at Renton Salvation Army

March 21st, Saturday - Technical Committee, 9:15 AM at Renton Salvation Army

March 21st, Saturday - Facilities Committee, 9:15 AM at Renton Salvation Army

From the W7JWJ - Notebook Operation Upgrade

The Evolution of a Repeater - Part Six

Born in 1914 out of a need to organize the wireless enthusiast of the day into a coherent message handling entity was the American Radio Relay League (ARRL). Messages were handled on radio networks called 'Trunk Lines' for long distance communication and then relayed or 'repeated' into local area nets

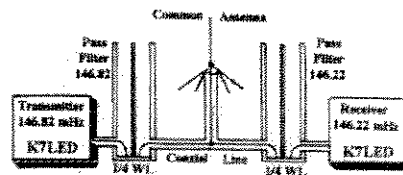
and then to the destination. Similar methods continue to this day.

In the early spectrum planning, amateur bands were harmonically related, integral multiples of ones basic fundamental frequency would therefore theoretically interfere with only other amateurs. Bands were 160, 80, 40, 20, 10, 5, 2.5 meters.

Military operations during the second World War were handled on this 2.5 meter band and frequencies were not relinquished at the end of hostilities. Amateur operation was shifted to the present 2 meter band. Surplus 2.5 meter equipment became available and was quickly converted to 2 meters. Such VHF communications is basically quasi-optical line-of-sight and therefore increasing antenna height above terrain would extend the range of amateur and other communications. (In 1946, installed a remote base atop a hill in the center of the Hanford Project with transmission on 126.18 megahertz).

With both transmitter and receiver located at mountain top sites, frequency plans were devised that would separate the transmitter and receiver frequencies so that suitable filters could reject the transmitter's output from entering the input of a nearby receiver. Such filters are comprised of one-quarter wave sections of transmission lines as resonant transformers. Frequency separation of transmitter and receiver

frequencies on 2 meters is normally 600 kilohertz. In reviewing the action of a quarter-wave section of transmission line used as an impedance matching transformer, one finds that the input impedance is the reciprocal of the output impedance. Assuming a quarter-wave line contains no resistance and is shorted at the far end (zero impedance) then the input a.c. resistance (impedance) will be infinitely high. Of course, in practice, zero resistance cannot be obtained, but as the far end approaches zero resistance, the input impedance will approach infinity. Such a large diameter 1/4 wavelength filter tuned to the input of a receiver and electrically connected to the same will act as a virtual insulator at the received frequency, but as a near short to displace frequencies.



A basic Repeater System

Board Meeting Minutes, 01/28/98

Melissa Donimirski, KB7TFF

Officers present: President - Chuck (N7STR), Treasurer - Chuck (WA7EBH), Secretary - Melissa (KB7TFF), 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). Guests were: Jack (W7JTB), Vic (N7YPB), and Ray (KB7OPQ)

Officer Reports

The Board meeting minutes were approved as printed in the Relay.

President: Chuck (N7STR) announced that Carroll Harris (K7NYA) an ex-member of the Club died of a heart attack. The coaches program has 12 people signed up to take part in it, and the book will be passed around again at the next general meeting. The Flea Market will be the focus of the next General Meeting.

Vice President: Chuck (K5KAV) was approved by the Board to be considered for membership at the next General Meeting.

Treasurer: Chuck (WA7EBH) announced that he has received in insurance for this and next year. The Puyallup Fairgrounds have just instituted a new policy that prepayment is needed to reserve the Fairgrounds, instead of the usual small down payment, due to some organizations which have been ripping the Fairgrounds off. Because the Club does not usually prepay, money may have to be taken out of savings to make the payment, however, a liaison of the Club will speak with the Fairgrounds and attempt to get this waived on the grounds of the excellent track record of the Club. There will be an audit if February.

Activities: Larry (AB7FJ) announced that next month's program will be the Flea Market, and March's program will be elections.

Chairman of the Board: Jeremy, (W7YG)

Radio Officer: Harry (W7JWJ) notified everyone that the repeaters are status quo. Also, the ARRL is reporting a loss in membership. Exams are planned to be administered at New Options Middle School. Committee Reports

Technical: Pete (K7WTG) and Al (KB7THX) have keys to the closet, but the locks are broken. Al is planning on fixing the locks as soon as he can. The closet has shelving, equipment, and antennas ready to be stored there. It is planned to give a key to Capt. Halverson.

Public Service: Vic (N7YPB) announced that Mike Ross found a good price to print the pamphlets, and the cover will be blue this year. Approximately 3500 will be printed. Jed is working on the web page, has found a server and the page is coming along. Jed will need up-to-date information on current events, etc. to keep posted on the page.

Long Range Planning: Adrian (KB7BVL) called for papers regarding free listings of public events to list the Club meetings and the Flea Market in.

Field Day: Porta-potties have been secured.

Banquet: Vic (N7YPB) announced that he has narrowed it down to H.D. Hotspurs or Northwest Harvest for the banquet, and it will start at approx. 9:00 PM.

New Business

Ray McCaw (KB7OPQ), president of the Boeing Bears Amateur Radio Club proposed a coalition be-

tween the Bears and the Mike and Key to train new amateurs. The Bears used to have classes, however, the company has since restricted these classes to include only Boeing employees due to legal liabilities. The Bears would like the Mike and Key to supply a training staff, and the Bears would supply facilities for the training to take place. The Board moved that the Club will join in a joint venture to train new Hams in Boeing facilities.

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.

For Sale

- 1991 Dodge Caravan, wired for 5 antennas and 1 Cel Phone on roof.

Contact Dick, N7YOB at 253-631-6168 or e-mail n7yob@gte.net



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 it's activities. Yearly dues are \$12.00 for individual memberships and \$18.00 for family memberships.

Volume 26, Number 2

February, 1998

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Next Club Meeting

Saturday, February 21st 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

Next Board Meeting

February 25th at 7:30 PM
Salvation 5th Army in Renton
720 Tobin, Renton

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

February Program

To be announced



First Class Mail



Check Mailing Label for Dues Status

Mike & Key ARC Web Page: <http://www.eskimo.com/~mwdink/mkarc.html>