

K7LED RELAY



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

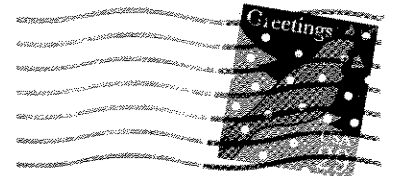
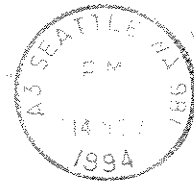
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FIRST CLASS MAIL

NEXT BOARD MEETING
November 29 @ 7:30PM
Salvation Army HQ
720 Tobin, Renton

NEXT CLUB MEETING
November 19 @ 10AM
Salvation Army Renton HQ
720 Tobin St, Renton
Doors open at 9:30AM

Program: Cellular Phone, Jeroid/K6LIE, US West

PETE HEDBERG, K7WTG

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



CQWW, CW EDITION, NOV 25-27
ARRL SWEEPSTAKES, SSB, NOV 19-20
CHRISTMAS PARTY, DECEMBER 10

DEADLINE FOR DECEMBER RELAY SUBMISSIONS - DECEMBER 8
CHECK MAILING LABEL FOR DUES STATUS



The Prez Sez...

Submitted by Nils, WB7TJK



Of course! What else is more important this month than the FIELD DAY

results? I was very impressed by the fact that our two Mellissas', KB7SDC and KB7TFF were give recognition for their leadership ability as band captains for the Novice/Technician operations by the ARRL, through QST. Check page 120, the bottom center picture. They are both photogenic. More important, they have proven to themselves and their peers in the Mike & Key ARC that they could do what others were hesitant to attempt when the call went out for Field Day Band Chairs.

As last years FD Chairman, I thank you both for a job well done. As Club President, I wish you to know that we, the members of the Club, are proud to be associated with you. This is what HAM Radio is all about.

Overall, K7LED achieved 5th place nationally in our category. Although we have done better in the past, I noticed that 34 clubs operated 6A and that we ranked #2 for western Clubs. Ken/K7YR made an interesting observation at our last Board meeting. He stated that only three other clubs exceeded our participant count of 97. The Mike and Key is healthy and doing well! That is because of YOU and your participation.

In summary of the Field Day results, I noticed that club member Eric/N7DLV was in 10th place in category 1B-1op. Now, if we could just button hole this member to close ranks with us next Field Day at Fort Flagler..... Hmmmm! I remember his weakness for apple pie. I better have a QSO with KB7UFM on the matter. 73.

A Christmas Party

Submitted by Jan, N7WJB

Arrangements have been made. The Mike & Key ARC will hold it annual holiday gala at the Salvation Army HQ on December 10th. Festivities will begin at 5PM but setup help is needed an hour earlier.

The main course will be catered

but potluck rounds out the rest of the meal so bring a favorite dish or treat for yourself and others.

A voluntary gift exchange is scheduled but keep the value at a maximum of \$5. Wrap it and label it as a male or female present.

RSVP to Jan/N7WJB at 824-9039 (home) during the day and 767-8589 (work) in the evening. Remember, Jan works nights so give him a chance to catch a little shuteye before calling. You can also catch him at the next Club meeting.

A Free HT?

Submitted by Al, KB7THX

Maybe if we changed the name of the Facilities Committee to something with more pizzazz, we would have more attendance at committee meetings. How about The Secret Society of Important Stuff Committee? (Suggestions welcome ... just bring 'em to the meeting.) Or maybe if we gave door prizes? A free HT to everyone who attends! (just kidding HiHi).

All seriousness aside, there will be a meeting of your Facilities Committee at 9AM before the General Membership Meeting on November 19 at the Salvation Army Center. The agenda will be to prioritize the order of acquisitions for our Club Station/Communication Trailer and to develop an action plan for the next acquisition. Your committee members (Chuck N7STR, Chuck WA7EBH, Nils WB7TJK, Frank KA7QHG and Al KB7THX) will be there and you are invited too. Our goal will be to prove that although a committee takes minutes - it does not waste hours. The meeting should last about 45 minutes.

Club Table

Submitted by Nils, WB7TJK

At the upcoming ICOM DAYS event to be held at Amateur Radio Supply, the Club will have an information table to introduce people to this great organization.

If you would like to help man the table, please contact me at home or the

next Club meeting. This event will be held on Saturday, Nov 26. It's a good chance to work off some of that Thanksgiving turkey and maybe pick up some holiday bargains as well.

Missing!

Submitted by Nils, WB7TJK

A number of clip boards used during the Field Day festivities at Fort Flagler are missing. If you inadvertently took one home, please bring it to the Club meeting so we will have them next year.

Tech License Renewal Problems

From the ARRL Letter

If you hold a Technician License issued before March 16, 1991, then you are automatically a Technician with HF privileges (a "Tech Plus").

In some recent instances, the FCC has processed the renewal or modification of such licenses but has mistakenly issued a "Technician" (code) license. (Since June 8, 1994, new and renewed Tech Plus licenses have been clearly marked as such.)

If this has happened to you, do the following:

Write to the FCC, explaining the situation, including your current license status, with effective date. Include **copies** of your both your "before" and "after" licenses. If you no longer have a copy of the original of your previous license, state so in your letter.

Send all this to FCC, 1270 Fairfield Road, Gettysburg, PA, 17325-7245 or FAX it to (717) 337-1541. Keep copies of all your correspondence. Expect it to take four to six weeks to resolve the matter. In the meantime, you may continue to exercise you HF privileges if you have them.



Still more Old Time Communications from the Old Goat

Submitted by Gib, W7JIE



Continuing on from last month. Of course times changed and as the war went on, traffic volumes grew. Good long range planning anticipated that this might occur. So by mid 1942, changes began to occur. Several boxes of equipment, and a Western Union engineer, arrived at Seward. Lots of prep work and unpacking and strenuous education resulted in a nearly automatic submarine cable telegraphy system.

Such a system required some technical changes in the cable electrical system. In the "old days", simplex sub cable telegraphy was rather simple. You sent or you received, but never at the same time. Early in 1941 the Seattle-Ketchikan-Seward cable system was converted to full-duplex! Sending and receiving at the same time. Wow! However it has still at about 45 words per minute tops, when the northern lights (called earth currents) were not bothering us. When earth currents got really bad we just had to shut down because no matter how we tried we could not keep the signal within receiving range of the recording equipment. You see, induced current can always be picked up from the earth's natural resident voltage. If you have a wire long enough, such as an 800 mile cable, the induced voltage will get rather high - up to 500 volts measured at times. This always did us in but at lower voltages we could work around it--most of the time.

Comes now full duplex. Sending and receiving at the same time in two directions on one single wire!! Fantastic. With adjustments for earth currents and induced voltages. How was it done? I shall attempt to explain it without drawings and pictures.

Imagine that the "key" being a two-headed thing, keys either positive or negative or zero voltage. At the key "output", the sending wire is connected through coupling capacitors to the cable on one lead and another lead thru another coupling capacitor to what is called an "artificial line". The artificial line

(AL) is in a big wooden box filled with adjustable resistances, inductors, and capacitors - all controllable by knobs.

Connected between the AL and the cable is a meter, an ink recorder, or a sub-audio DC amplifier. (The meter is mostly used for initial adjustment). By electrical knowledge we know approximately the resistance, capacitance and inductance of the installed submarine cable. So we now set the AL to approximately the same values. If the AL has been properly adjusted to imitate the cable, then sending a positive or negative voltage should show no deviation on the meter. (This initial setup never comes out right so don't get discouraged bunky.) Explanation--since the voltage derived from the key is being split and equally divided between the AL and the cable, there should be no voltage existing across the meter -if properly adjusted!

After many hours, or even days, adjustments have resulted in a zero voltage difference between the cable connection point and the AL connection point. This was probably the most tedious and sweat-filled time of all. It was called "balancing the cable" which was actually adjusting the AL to electrically imitate the cable. Proof of ability came when sending to the cable from the near end resulted in no voltage appearing across the connecting points. But, if the far end of the submarine cable were to send, there would be a voltage difference between the near end cable-AL connection points! It would be a small voltage but if both ends of the cable were properly balanced, then the sending end would not see their transmission and would only see the voltage from the far end. The same condition exists at each end and it was rather remarkable that the Alaska communication system developed this method and perfected it. I was fortunate to be a part of the development.

Next month, we'll go more into old-time communications. If I have not been kicked out of the club for boring you with memories. 73.

ARES Helicopter Training

Submitted by Vic, N7YPB

On October 1st, I took a Beginner and Intermediate Helicopter operations course with the King County Police. This is required for ARES/RACES members involved in Search and Rescue.



The class was held just north of the Museum of Flight in Seattle. There were two Huey's sitting in the hanger when we arrived. One was missing the engine and the other with the engine half assembled, windows missing, one of the floor boards off. As I was about to enter the class room, someone asked one of the Instructors if we would be going up today. The Instructor said, "Sure - just as soon as we all pitch in and finish repairing this bird and we will go up this afternoon".

In the class room, Scotty (a pilot who flew a gun ship in Viet Nam) covered numerous times the main safety items.

- STAY AWAY FROM THE TAILROTOR
- APPROACH THE HELO FROM THE FRONT
- KEEP THE HEAD DOWN BUT LOOKING FORWARD
- ONLY COMING WITHIN 100FT WHEN DIRECTED TO BY THE PILOT.

They also taught us identifying helo's, (OH 58 Jet Ranger, Huey, Dauphin, Blackhawk and Chinook (loads from rear).) High skid/Low skid, safety around the helo. Getting on and off, safety belts, getting out of a crashed helo, removing the pilots from a crashed helo. How to shut down the engine, where the first aid kits and fire extinguisher are located, communicating with the pilot, making landing zones, and marking landing zones (sometimes involving the relief of ones kidneys). All this involved about three and a half hours of class room instruction, taking one half hour for lunch.

At 13:15, we drove south on East Marginal Way, turned left onto the Boeing Field perimeter road going around the end of the runway (on Norfolk St.) and then back north to 8600 Perimeter road. This is just inside and to the south of the middle gate leading into Boeing Field.

There we were divided up into groups of seven. (The Huey will carry 13 people max., but is only insured for nine. Insurance runs \$2000 per passenger per year.) We are given hard hats with chin straps and were asked if we had any ear protection or safety glasses with side shields.

While we were waiting for the Helicopter to return from the first flight, we overheard a rescue mission starting over a scanner. Soon beepers started going off, four in all. Everyone stayed for their ride before going on the mission. Search and rescue provides beepers free to search people.

To get on board we were directed to the front and after Scotty directed us to come aboard, we walked up arms length apart bent over to the side opposite the tail rotor and got into the helo. I sat down behind the Co-Pilot and attempted to fasten my safety belt as instructed while watching slides. It seemed easy when it is handed to you put together, but when it comes in two pieces..... Anyway, after getting help fastening my safety belt, we are ready to take off. Scotty asks us if we want the doors open or closed? OPEN, OPEN.

Scotty showed us how you operate the tail rotor pedals, the cyclic (stick) throttle and collective. We take off and head for what use to be Long Acres race track. We land in a small clearing in the bushes. We get off on the side opposite the tail rotor and walk directly away from the front of the helo, bent over as instructed. (Remembering the story of the Santa Claus that lost a hand as he waved to the children waving back as Santa got off the helicopter). Six of our group that was dropped there earlier get onto the copter (the Load Master stayed behind to give us instructions on preparing a Landing Zone) and they leave blowing up pieces of grass and dust.

Twentyfive minutes later, we hear the womp womp womp of the Huey coming back. Seven more people get out and we get back in. This time it is easier to buckle the seat belt. We wait a for another helo to fly by and we take off headed back for Boeing Field. We hit a

little air pocket at the south end of the field, otherwise a perfect flight. We set down, give back our helmets and sign out. It was 15:15.

Hamming is a lot of fun, on October 1st I passed the test for my General Class and October 7th I get a ride on a Huey!

General Meeting Minutes October 15, 1994

Submitted by Chuck, WB7EBH

All officers in attendance except Secretary, excused.

Meeting called to order by Nils WB7TJK at 10 AM. Welcome to all in attendance and a request to supplement the coffee fund by donations.

Welcome to ARRL officials in attendance. Pledge of allegiance followed by introductions.

OFFICERS REPORTS

President: Formation of audit committee, need names of general membership interested in serving.

Update on generator, now at NC Machinery in their lobby, we now have a clean slate on this. Thanks to all that helped.

Vice President: Submitted resignation due to work conflicts, board to act on it at next board meeting.

Submitted two applicants for membership; Jeannie Svenningsen, KC7EEY and Ron Adams, KC7FBN. Both elected to membership.

Secretary: Excused due to illness. No Report. Sam, N7RHE moved and Chuck, N7STR, seconded that the minutes be approved as published. Passed.

Treasurer: Gave financial report. We look good.

Activities: Today's program is a DX expedition by Mary Lou Brown, NM7N. November is cell phones, December is a

gabfest, January is the tour of ICOM at about 1 PM.

Radio Officer: Update on the 6 and 2 meter repeaters.

C.O.B.: Budget committee requests input for expenditures, Flea Market update, and comment on Jan's resignation.

COMMITTEE REPORTS

Nils asked only for any new information not published in the Relay.

Public Service: Dan, N7QHC, Next meeting Oct. 20 at 7:30 PM. All meetings are held at the South Center Denny's. Mary, W7QGP, comment on combining ARES and RACES into one.

Technical: Working on a report for the AEA antenna test meters. Ken, K7YR, gave a talk on the packet coordination request submitted to the WWARA coordination committee.

Education: Working on programs.

Strategic Planning: No report.

Facilities: No report.

Relay: Mike, WA7UVJ, presented Gerhard, DL8GBP, with a certificate for coming the furthest for Field Day. Contest update and also presented John/KI7OT, with the Salmon Run hat for entering the club's competition on the State's Salmon run contest.

ARRL: Mary commented to be sure and check your class on the Technician license renewals. FCC getting wrong information on them. (See ARRL letter elsewhere for info.)

Field Day: Don, KB7YUA, would like to have a brief meeting after today's presentation of those interested in field day in the coffee room. Reminder to get camping reservations in around Jan. 2, 1995 as the park fills up fast. Work party at Fort Flagler around Feb. 11, 1995. Those interested in attending. Further information to follow later.

Net Report: Frank, N7QHG, gave an update on the nets. Looking for net

controls. Contact him if interested.
ean, N7NKO, awarded Bob Crooker,
WB7PEC, the Alligator award.

Old Business

Nils, hot water tanks to be delivered to Fort Flagler State Park around November 1st.

New Business

Mike, KB7YXB, requested help for Heart Association walk-a-thon on October 22nd.

Good of the Order

Nils gave an update on the Weyerhaeuser shutdown of their facilities to the general public without a permit.

Break at 11 Am.

Presentation by Mary Lou Brown, NM7N.

Raffle winners: \$25 Gift certificate, W7YOZ; \$15 Gift certificate, KB7PSN; \$10 Gift certificate, N7GVQ; World Radio subscription, N7RHE.

Meeting adjourned at 12:10 PM.

Elections

Submitted by Board

Accepting Jan/N7WJB's resignation as Vice President, the Club will hold elections at the November meeting to select a replacement to fill out his remaining term (March 1995).

Board Meeting Minutes October 25, 1994

Submitted by Ryan, N7TNI

Present were: President-Nils/WB7TJK, Secretary-Ryan/N7TNI, Treasurer-Jack/KB7ZS, Activity Manager-Tom/N7VDU, Radio Officer-Ken/K7YR, Trustee #1-Chuck/N7STR, Trustee #2-Dan/N7QHC, Trustee #3-Lew/W7QMP, Trustee #4-Chuck/WA7EBH, Trustee #5-Michael/KG7MX, and RELAY Editor-Mike/WA7UVJ.

The meeting was called to order by Chuck/WA7EBH at 19:33, who called for

approval of the minutes of the last board meeting, as published in the RELAY. Nils/WB7TJK moved they be approved, seconded by Chuck/N7STR. The board voted to approve.

Officer Reports:

Nils/WB7TJK reported that has had two volunteers to serve on the Audit committee. He will deliver the two water heaters to Fort Flagler soon, probably the first or second day of November. He noted that our club had placed fifth in Field Day points, for stations running class 6A. Melissa/KB7SDC and Melissa/KB7TFF who were Co-Band Chairs for the Novice station at Field Day got their picture published in the November QST. Nils was very pleased by both the effort they both put forth at Field Day and for the recognition that they have received.

Vice President: Chairman of the board, Chuck/WA7EBH reported that Vice President Jan/N7WJB has submitted a letter of resignation from his office, citing work schedule conflicts that prevent him from carrying out his duties. Dan/N7QHC moved we accept his resignation, motion was seconded. The board discussed the matter, and voted to accept Jan's resignation. Nils will call for nominations of candidates, and hold a special election at the November general meeting to fill the vacancy. The person elected will serve the remainder of Jan's term. Mike/WA7UVJ will publish an election notice in the next issue of the RELAY.

There were three applicants for membership presented to the board. They were Joe Langjahr/KJ7DG, Joseph Orlando/WB7WCP, and Jeffrey S. Watterson/KB7NHD. The board voted to present them to the membership for vote at the November general meeting.

Secretary - Ryan/N7TNI, had nothing to report.

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

Activity Manager - Tom/N7VDU reported that upcoming activities will be published

in the RELAY. He has received a letter from ICOM, confirming the planned tour.

Last month, the raffle paid out \$5.00 more than it took in.

Radio Officer - Ken/K7YR had reviewed the 1994 Field Day results in QST, and reported that only three other clubs listed had exceeded our participant level of 97 persons. Ken has been very busy, but will be ordering the equipment for the new 2 meter repeater soon.

The work at getting a new repeater site has been going on for over three years now, and is still progressing. Ken hopes to have the machine up and running in test mode sometime in January or February 1995. Ken would like to encourage everyone who has 160 meter privileges to get on the band this winter, the signals are great, the band is fairly quiet, and it's a great place to meet new people.

Standing Committee Reports:

Technical and Special Interest - Michael/KG7MX reports the committee is working a report of the success of the MFJ 259 antenna analyzers. When it is completed, by Mike Cross/WB7AYU, it will be submitted to the RELAY.

Public Service - Dan/N7QHC reported the committee had met on Thursday, October 20th. The meeting went for two hours. Dan was not able to attend, and had not heard about what was accomplished

Facilities and Publicity - Al/KB7THX reported that he had received a letter from Captain Halverson of the Salvation Army, requesting a letter be sent to him, which would put in writing our club's desire to locate a trailer at the Renton headquarters. Captain Halverson would then forward this to Denny Strand and get approval from the top. Al has sent this to him, and is awaiting a response.

Chuck/WA7EBH says they should already have a letter on file, and that he could supply Al with a new copy if needed.

Special Committees - Selection of trustees to serve on the Audit committee was done by putting the names of the five

trustees in a hat. Chuck/WA7EBH and Lew/W7QMP were selected. We still need one more member at large to serve on the committee, additional volunteers will be solicited at the November general meeting.

The Budget committee met, and has come up with a balanced budget. Jack will mail out copies to all of the board members for review.

The board will review the proposal during their meeting at the end of November, so that it can be presented to the membership during the December general meeting.

Christmas Party - Jan/N7WJB and Don/KB7UYA are Co-Chairs. Nils will contact Jan and have him get some information submitted for publication in the RELAY.

Flea Market - The next meeting will be Thursday, November 3 at 19:30 at the Salvation Army Headquarters in Renton. Frank/KA7QHG suggested we have extra refreshments available for the December meeting.

Chuck/WA7EBH suggested we get cakes with Mike and Key logos on them, instead of the usual doughnuts. Dawn Humphrey volunteered to arrange for getting the cakes decorated and picked up for the meeting.

Ken/K7YR reported that the WWARA has been contacted by some of the packet radio operators in regard to frequency coordination of this mode. If you would like to see this happen, please contact them. The WWARA is constantly being asked to do more and more, but this costs money. In order to raise funds, the WWARA is going to publish a detailed repeater frequency booklet that should be a "must have" item. They will be sold at two locations in the Seattle area, and should be available about three months before the new issue of the ARRL repeater directory is out.

Mary/W7QGP reported that there are 8,246 technicians, 2,000 Extras, 3,000 Advanced, 4,000 Generals, and 2,000 Novices licensed in Washington state. Mary said the FCC in Gettysburg has

only one keypunch operator working one day a week processing Amateur radio applications. The meeting was adjourned at 20:30.

Activities

Submitted by Tom, N7VDU

The following events are planned for the Club, its members, and their guests:



- November 19 Club Program - Jerold A. Aceto, K6LIE, from US West, Cellular Telephones
- December 17 Club Program - M&K 'GabFest' - no formal presentation. A chance for members and guests to just visit. Please bring can food or toys for the Salvation Army.
- January 21 ICOM tour, 1:00 p.m. Bellevue
- February 18 Flea Market Preparations
- March 18 Officer Elections

A Call for Articles

Submitted by Michael, WA7UVJ

Read a neat book regarding Amateur Radio lately?

How about some new software for the computer?

Maybe you bought a new whiz bang piece of equipment (like an antenna analyzer or DSP)? that you like - or hate.

Heck!, maybe you just found the world's best recipe for bootleg whisk... I mean Apple Pie.

Write up an article about it, You have over 200 members and readers across the Northwest that just can't wait to hear about it. Next months Relay deadline is December 8th.

In an Emergency...

Submitted by Vic, N7YPB

A few things I learned during summers fires:

- In a emergency, listen before you transmit, always!
- Report to your emergency coordinator so he will have the latest data on your facilities.
- Offer local civic and relief agencies your services directly in the absence of an EC.
- Respect the net control station as the supreme authority.
- Cooperate with those we serve
- copy bulletins from W1AW, during emergencies
- after the emergency report to the arrl headquarters promptly and fully so that the amateur service can receive full credit.
- EC, emergency coordinator
- NCS, net control station
- LZ, landing zone
- PZ, pickup zone
- Staging area- where everyone meets
- Helicopter equipment: hard hat, safety goggles, bright cotton clothing, smoke devices, wind ribbon or sock. Two flashlights for night with red or blue covers.

Things that came in handy.

- County map
- scanner
- drill motor
- extension cord
- multi-outlet for charging batteries, drills
- rat tail file
- nut driver set
- crescent wrenches
- cameras and socket set
- extra gas cans

Things I wish I had.

- 2meter, 6 meter mobile unit with P.A.
- longer antennae for hand held, (I could not reach the repeater with my rubber ducky)
- dry cell battery adapter for hand held \$20 or gel cell
- 120 volt converter for scanner or drill motor.
- A clip board.
- Some 3x5 cards to write on.
- Video Recorder
- Bigger first aid kit from home.

- Rechargeable deep cycle battery
- large thermos bottle
- Safety vest
- Lawn chair with name on it. (All items should have name on them)
- bike helmets
- safety goggles

(nothing beats real world experience - see following article - Ed.)

Tyee Fires Experience

Submitted by Vic, N7YPB

Tuesday

17:00 We left Seattle for Wenatchee by way of George, Wash. We stopped at Ellensburg. We can receive 146.68 there. We top off our tank and drive on to George.

21:45 From George we can see the smoke but it looks like clouds.

22:13 Arriving in Wenatchee, the Chelan County Court House. Talked to a Sheriff Officer. He sends me to a window, I talked to the Duty Officer. He calls down stairs and a lady comes up and takes me to the basement. Two people from the local ham club were there - one on the radio and the other on the telephone. It was chaos. The person on the phone appeared to be getting chewed out for not knowing who was at Icicle Creek. Finally I get checked in and have travel papers. Two more hams from Issaquah come in. They have a motor home and are staying at a campground. We get a map to Sterling Middle School - home away from home.

23:00 At Sterling, there are about 200 cots set up there in the gym and in their locker building. About 4-6 families are there from Leavenworth including a lady with respiratory problems. They have coffee, pop and potato chips. Breakfast is at 8, lunch at 12 and dinner at 6PM. I have a cup of coffee and talk to some boys from Leavenworth.

23:30 We check into the main office. When we go back outside there is smoke in the air and it is warm outside - even this late. At about midnight, I hear footsteps and it is the man we checked in with. He says we have an assignment at Icicle Creek at 6:30 in the morning. Time to sleep.

Wednesday

02:10 I wake up and the wind is blowing about 35 MPH. I get up and take a hot shower. I scan and reprogram the handheld for repeaters and find 154.09.

03:28 They are making assignments on 146.68. My call sign is not one of them. I go back to bed and wake up around 06.

06:30 I go into the Office and they are sending people to breakfast at a nearby church. Bringing the syrup and butter, I get burnt instant waffles.

07:30 Back at Sterling Middle School. I listen to my scanner and, when asked, tell people what I had found out. Most questions are about the Sourdough area - east of Leavenworth.

09:20 Two area Boy Scouts are setting a fan up on the stage in the gym. There is a lot of volunteer help here. Two people meet you at the front entrance to answer questions. There almost always seems to be someone in the gym to answer questions. They have a TV set up in the library with a VCR. One kid watched movies all night.

11:00 Gerry McNeilly/KB7WYZ came over and says we are moving up to Entiat at 11:30 AM - just in time to miss lunch. So we stop at McD's and then stop again to top off the tanks. We are using simplex 146.55.

12:15 When we get to Entiat, there are two signs on 97 saying fire base. One points East and the other points West. We go West and find a check point and are directed to the East base where a helicopter is getting water out of the river. So we go back around, when we get to the East base they ask us if we had checked into base camp. So we now know where that is and drive back up there. We check into the King County Communications Van and are shown the ropes of survival. No hot water. Showers are in a van where 1000 Marines are washing the dirt off them. There are tents up into a orchard. There are 2 t-shirt shops. One gives 20% back to the people that are burned out. I buy a hat.

Red numbers are painted onto our windshields, KCSAR- E860C. These numbers move us right through the road blocks. There are a lot of signs at the ends of peoples driveways thanking the green guys or the fire fighters.

16:00 We relieve a couple workers at Ardenvoir. There is a Coopers General Store, a Post Office a small bar and a pay phone that is almost in constant use as the phones are out on up the road. A lady who had lost two out buildings and was burned her self, had let us use her big fishing ice chest. The N.F.S. information officer brings up ice, bottled water and pop to keep it stocked for whoever needs it. This is a regular stop for the local Sheriff and Forest Service workers. Our job is to see if there is anything anyone needs.

When a fire truck or Marine vehicle pulls in we go over and see if they need anything and then hang around and listen to see if there is anyway we can help

them out. We also work with Ballard Ambulance.

17:01 Fire base is sending someone up. They never stopped at Coopers Store. There are children across the river swinging.

18:47 Winds picking up from the north. Smoke viability is dropping to under 1 mile.

19:36 Helped Grant Co./Coulee City Fire crews determine HF set to N.F.S. frequency. 168.100 using scanner.

19:55 We dispatched Ballard to the road block to transport a lady having Antifarratic Shock to Wenatchee. Five minutes later they ask us to hold Ballard that Life Line was transporting.

20:23 Keith Kradenburg asked us to monitor Red Net 168.100 - Entiat Fire Control - for more instructions. We monitored that with the scanner.

22:15 Fire truck is leaking water at pump bypass. Base is sending parts up with a mechanic to repair the truck.

Thursday

00:13 Relief arrived, but it's suggested setting up communications at Tyee Creek at mile marker 20. So we stayed at Coopers Store (Ardenvoir).

2:10 Pierce Co. Search and Rescue pulls up, we talk awhile and he says he is going to get an hour of shuteye. Ballard is also trying to go to sleep with radios going. People across the river are looking out their windows to either see if we are still there or how bad the smoke is.

06:10 Radio wakes me up. Stitz/WA7BET is driving up from Wenatchee. I check in for some relief. We will be relieved by 8AM.

07:00 Pierce Co S.A.R. KB7NBQ/Bob Tilly and KB7TTD/Dave Norten relieve us.

07:20 At Base camp we find out we are to report back at Ardenvoir at 8AM. We breakfast. Scrambled eggs, sausage, breakfast sweet roll, hash browns, fruit and coffee all you can hold.

08:00 Taking 4 cases of pop and bottled water, 1/2 box of assorted candy bars left over from the sack lunches, bags of chips, ice and 6 sack lunches; we head back up.

08:15 We relieve the 4x4's from Pierce Co. there are now 4 radio operators there. Gerry does a good job of explaining procedures to the two new operators.

11:10 I am dispatched up to Tyee camp looking for Director Small in a old Yellow truck, he is suppose to contact Chief Cossan on the phone or through me.

11:30 I am going by Grant County when I hear that he has been found. Headed back at to camp, the other operators tell me I should go ahead and head back home as there is plenty of help there.

12:00 Leaving Ardenvoir, on the way out we hear that a Humvee had rolled over in our area. We check out at Base camp and come back over 97. Although it is closed, our numbers get us through - KCSAR E860C. We go by two fire trucks hosing down some smoldering trees.

16:00 We are home. 513 miles and 48 hours later.

However, WA7UVJ just doesn't make it for contesting, (believe, it makes a difference - especially CW) so I requested K7LED for the weekend. Did you know YOU could do that? Since I used the Club call, I guess I should tell you how the "Club" did.

505 Contacts
71 Sections (out of 77 possible)
71,710 points
21 hours of operation

Was it good? Not especially. I came across more than a few QRP's that had more contacts than me at 125 watts. The first few hours were gangbusters with 50+ an hour. That's a rush! However, as the sun went down, so did 15 and 20 meters until I was slugging it out in the muck of 40 and 80 meters. Then it became a grind - 30Q's an hour, 10Q's and hour, 5 Q's an hour. Time to go to sleep!

The next morning, after the sun rose, 20 meters regained some promise but 15 never opened up again. And while 20 was full of signals, most had been worked before. Propagation has definitely declined in the past few years! I missed the usual sections like

Puerto Rico and the Yukon - but Maine and South Carolina should've been easy.

Oh well, it was fun!. Coming up on November 19-20 will be the phone edition of this contest. Maybe someone else will pick up the K7LED banner and wave it around on SSB? See Ken/K7YR the Radio Officer if you are interested in using the Club call.

CQ SS de K7LED

Submitted by Michael, WA7UVJ

November is Sweepstakes (SS) time. I never miss this contest if possible. It is an attractive contest to me because there are reasonable (?) possibilities of meeting some goals - either placing regionally or getting a clean sweep (all ARRL sections). Being a stateside contest, I do not have to have a extraordinary antennas, block shattering power levels (although nice), or great pileup busting skills.

KL7BB's ALL CW CODE PRACTICE TAPES

(Each Tape 1 hour long C-60)

3-5 WPM -	"Beginner" (Novice & Tech VERY SLOW)
5-7 WPM -	"Novice & Tech" Ham Words
8-11-14 WPM	"General" Ham Words
15-25 WPM	"Extra" Ham Words & Lots of Numbers

\$5.00 each + \$1 shipping (1st Class) & Handling = \$6 each
Order from: Bill Balzarini, 2525 S 355th Pl.
Federal Way, WA 98003 (206) 661-7373



ANNOUNCING THE 14th ANNUAL MIKE AND KEY ARC ELECTRONICS SHOW & FLEAMARKET

MARCH 11, 1995 @ 9AM

PAVILION EXHIBITION HALL

WESTERN WASHINGTON FAIRGROUNDS, PUYALLUP, WA
ADMISSION - \$5 (UNDER 16, FREE w/ADULT)

TWO FLOORS WITH 44,000 Sq FEET OF EXHIBITION AREA
TALKIN 146.82/22 (PL 103.5) & 146.58 SIMPLEX
RADIO GEAR * COMPUTERS * CLUB INFO * PARTS
SNACK BAR * FREE PARKING * CONSIGNMENT AREA
OVERNIGHT SC/RV's OK * LICENSE EXAMS

(LICENSE EXAM SESSION @ 11AM, RESERVATION REQUIRED)

TABLE RESERVATION INFO: (206) 854-4031, 6PM-9PM PST
 LICENSE EXAMINATION INFO AND RESERVATION ONLY: (206) 549-4062

BUSINESS NAME (IF ANY): _____

CONTACT NAME: _____ **CALL:** _____

ADDRESS: _____

CITY: _____ **STATE:** _____

TELEPHONE: () _____ **ZIP:** _____

**REGISTRATION TIPS
(TO MAKE IT EASIER FOR YOU AND US)**

IF YOU DESIRE TO HAVE YOUR TABLE SITUATED NEXT TO A SPECIFIC PERSON OR GROUP OF PERSONS, YOU MAY WISH TO REGISTER AS A GROUP WITH ONE LETTER CONTAINING ALL THE TABLE REQUESTS. CONFIRMATIONS CAN BE RETURNED SEPARATELY IF DESIRED.

REGISTER EARLY AS TABLES ARE ASSIGNED ON A FIRST COME, FIRST SERVE BASIS AS DETERMINED BY POSTMARK. SPECIFIC LOCATION REQUESTS ARE HONORED ONLY IF THE SPACE IS AVAILABLE.

Please note any location/group requests, special requirements, or additional information below:

SELLER SETUP TIMES


MARCH 10 (FRIDAY) - 2PM TO 7:30PM
MARCH 11 (SATURDAY) - 5:30AM TO 8:30AM

#	DESCRIPTION	\$
	EXHIBIT / SELLER TABLES @ \$17 EACH (8' X 30" - ALL TABLES ARE SOLD AS NOT INCLUDING ANY ADMISSIONS)	
	SELLER / HELPER ADMISSIONS @ \$5 EACH (WE RESERVE THE RIGHT TO LIMIT THE NUMBER OF HELPERS)	
	COMMERCIAL BOOTHS @ \$88 EACH (200 SQ FEET, 4 TABLES, INCLUDES 4 ADMISSIONS)	
	ADVANCED BUYER ADMISSIONS @ \$5 (HONORED @ 9AM, SATURDAY - SENT BY RETURN MAIL - NO ORDERS AFTER 02/18/95)	
TOTAL ENCLOSED =		

MAKE CHECKS PAYABLE TO: MIKE & KEY ARC, 637 2ND AVE S, KENT, WA 98032 - ALL RESERVATIONS CONFIRMED BY RETURN MAIL

MIKE & KEY ARC CALENDAR

November 13 - December 17, 1994

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
Nov 13	Nov 14	Nov 15	Nov 16 7:30pm Club Net on 146.82 Repeater	Nov 17 7:00pm Public Service Net 7:30pm PARS Meeting	Nov 18	Nov 19 10:00am Club Meeting 1:00pm VE Exams Sweepstakes - SSB
Nov 20 Sweepstakes - SSB	Nov 21	Nov 22	Nov 23 7:30pm Club Net on 146.82 Repeater	Nov 24  <i>Thanksgiv...</i> 7:00pm P...	Nov 25 CQWW - CW	Nov 26
Nov 27 CQWW - CW	Nov 28	Nov 29 7:30pm Board Meeting	Nov 30 7:30pm Club Net on 146.82 Repeater	Dec 1 7:00pm Public Service Net 7:30pm Flea Market Meeting	Dec 2 ARRL 160M Contest	Dec 3 9:30am Boeing ARC Meeting 1:00pm VE Exams - Kent (KF7VG)
Dec 4 ARRL 160M Contest	Dec 5	Dec 6	Dec 7 7:30pm Club Net on 146.82 Repeater	Dec 8 7:00pm Public Service Net	Dec 9 ARRL 10M Contest	Dec 10 8:00am SeaTac R... 10:00am VE Exam... 1:00pm NAPRA ... 5:00pm Christmas...
Dec 11 ARRL 10M Contest	Dec 12	Dec 13 7:30pm WWDXC Meeting	Dec 14 7:30pm Club Net on 146.82 Repeater	Dec 15 7:00pm Public Service Net 7:30pm PARS Meeting	Dec 16	Dec 17 10:00am Club Meeting 1:00pm VE Exams