



K7LED

RELAY

AN
ARRL
AFFILIATED
CLUB

NEAR SEATTLE, WASHINGTON

VOLUME 13

DECEMBER 1985

NUMBER 12

CLUB OFFICERS

President	Charles Stroehrer	WA7EDH	Trustee No. 1	Jimmy Sutton	WA7LNQ
Vice President	Gene Jacobson	WA7TAI	Trustee No. 2	John Rehnstrom	WA7HQG
Secretary	Warren Nixon	K7MRH	Trustee No. 3	Jim Christiansen	K7ND
Treasurer	Mike Cross	WB7AYU	Trustee No. 4	Hal Goodell	N7NW
Activity Mgr	Pati Sutton	WB7VJA	Trustee No. 5	Dick Dietsch	W7KCX

CLUB RADIO OFFICER: KEN RAU, K7YR

The K7LED RELAY is the Official Publication of the MIKE and KEY AMATEUR RADIO CLUB, 5430 Lake Alice Rd SE, Fall City, WA. 98024. The Club meets the third Saturday of each month at 10am in "The Good Neighbor Center", 305 S 43rd St. Renton, Wa. All "Hams" invited.

The MIKE and KEY net meets each Sunday morning at 10am on 3930 kHz with Novice and CW check-in on 3730 kHz and VHF on 146.58 MHz and K7LED/R 52.37-53.37 MHz.

K7LED RELAY EDITOR
13517 117th Ave NE
Kirkland, WA. 98034



First Class

REPEATER FREQUENCY

52.37-53.37

222.52

224.12

BOARD MEETING

8 JAN 86 1930 HRS

QTH WA7EBH

CLUB MEETS:

UGN CENTER

RENTON 10:00

DEC 21 1985

ACTIVITY EVENING

NOTHING SO

SOON AFTER THE

HOLIDAYS -

MERRY CHRISTMAS

PETE HEDBERG K7WTG
20904 NE 77TH ST
REDMOND
WA 98053

Here are the names, addresses and phone numbers of the Club Officials. See front of Relay for position.

CHARLES STROEHR, WA7EBH
19415 SE 21st
Issaquah, Wa. 98027
Phone 392-5303

JIMMY SUTTON, WA7LND
3516 SW 343rd
Federal Way, Wa. 98023
Phone 927-7088

GENE JACOBSON, WA7TAI
7334 126th Ave NE
Kirkland, Wa. 98033
Phone 822-3931

JOHN REHNSTRON, WA7NQG
9421 9th NW
Seattle, Wa. 98117
Phone 783-2489

WARREN NIXON, K7HRH
26908 Avon Court
Kent, Wa. 98032
Phone 854-9028

JIM CHRISTIANSEN, K7ND
6122 36th St. NW
Big Harbor, Wa. 98335
Phone 265-3481

MICHAEL CROSS, WB7AYU
5803 SW Hanford
Seattle, Wa. 98116
Phone 935-2688

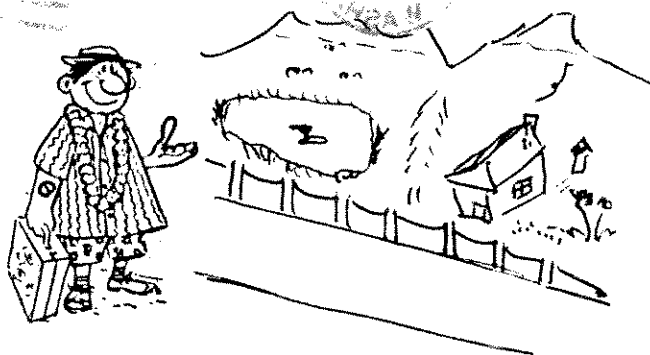
HAL GODDELL, N7NW
35916 11th SW
Federal Way, Wa. 98023
Phone 927-7603

PATI SUTTON, WB7VJA
3516 SW 343rd
Federal Way, Wa. 98023
Phone 927-7088

DICK DIETSCH, W7KCX
16807 NE 89th
Redmond, Wa. 98052
Phone 885-6559

KEN RAU, K7YR
5430 Lake Alice RD SE
Fall City, Wa. 98024
Phone 222-7711

EDITOR
RAY E LESLIE, WA7EKH
Phone 821-4188



WANTED - A RIDE

Tim Schneebeck, K7QMI, would like to attend the club meeting each month however, now that Bob, KD7NM, has moved to the south end of Seattle he has no way of getting there. Any one who lives in or near the University District who would be able to transport Tim to and from the Club meeting please contact him on 547-0404. Tim would appreciate it very much.

MINUTES OF CLUB MEETING - NOV 16, 1985

PRES: WA7EBH opens meeting at 9 am with pledge to flag.

V.P. WA7TAI has nothing concerning membership at this time.

SEC: Floor advised of letter to ARRL naming Ray Leslie as contact person. A change was necessary with K7YR moving to new residence.

TREA: Oct 31 balance \$3501.24

A.M. December - Christmas party. Details in RELAY.

January - Tour of ICOM after regular meeting.

February - Flea Market work party.

March - Flea Market

April - Banquet. WA7VJA to chair.

Training: Novice class beginning after Jan. 1 per N7NW.

Repeater: Functioning well. Some interaction with adjacent repeater. N7NW will purchase isolator and harmonic filter to minimize this problem.

WA7EBH: Chuck request WA7LND to obtain information and direction from membership concerning possible changes with the 75 meter net. Plus another net on the 220 repeater.

OSL: WA7EKH presented several options on new QSL cards. No action taken.

W7QGP: Mary Lewis reports on possible revival of Puget Sound Council in as much as KCAR is limited to King County.

Board will follow up on possibility of the Mike & Key ARC qualifying as a full service club.

Flea Market: N7NW will continue to gather information on possible improvements. Plans call for bi-monthly meetings for discussion and formulation of plans. Club members participation is needed and is requested most urgently. Hal would like a good turn out for the next meeting which will be at his house on Wednesday, December 4th.

Santa Talks: WA7EBH requests those interested in participation to contact Tim, K7QMI, on 146.96.

World Radio: Motion passed to purchase the package as outlined in flyer. Cost is \$52.00. Secretary will retain flyer in records if members desire more details.

Club Literature: Motion passed to mail check in the amount of \$7.00 to ARRL to purchase 100 "JOIN A RADIO CLUB" pamphlets.

Flea Market: Volunteers needed for the day of Flea Market and also for the preceding Friday. N7NW has sign up sheet to pick your day and hours.

Adjourned at 1010am.

SUMMARY OF ARRL LETTER

November 7, 1985

Looks like the Amateurs have virtually exclusive use of 1900-2000 kHz at least until July 1, 1987. After that FCC may let in some radio that were in the 1605-1705 kHz band. FCC will let "spread-spectrum radiolocation stations in here as early as Dec 9.

The FCC has a docket proposal that would allow Auxiliary Operation everywhere except 431-433 and 435-438 MHz. Auxiliary operation is now only allowed above 220.5 MHz. The QCW has petitioned to delete the frequency restrictions above 220.5MHz except 431-435 435-438MHz. The League says if this happens things in the lower frequencies will get a lot more jammed up, so they don't want this to happen. QCWA wants FCC an extension of time to file comments in this matter.

As of Jan 1, the VEC will be allowed to charge \$4.29 for administering exams. If you fail a VEC test you cannot retake the same test, it has to be somewhat different set of questions and cannot be retaken at the same test session. You also have to submit a new Form 610 along with some more money.

ARRL wants the FCC to maintain the questions that the VE use for testing purpose and not let the VEC's or VE make up their own questions.

The Electronic Communications Privacy Act of 1985 (S. 1667 and H.R. 3378) is pending in Congress. This involves unlawful interception of wire and wireless electronic communication and will authorize recovery of civil damages. This gets into computer "hacking". However, Amateur and CB transmissions are listed as "unprotected".

Jerry Iggulden of Valencia, Ca. has petitioned FCC to allow unlicensed operation of low power video at 902-928 MHz.

FCC has ordered J. Fred Riley, W8BAJN to show cause why his station and amateur license should not be revoked due to his causing "malicious interference" or jamming and not complying with the proper station identification rules.

The Young Astronaut Council and ARRL are looking for radio amateur volunteers to

provide space communications experiences for young people in YAC chapters around the nation. If you want to get into this, contact the Development Office at ARRL Hq and leave your phone number.

The Marshall Amateur Radio Club Experiment (MARCE) will fly on space shuttle Mission STS-61C on Dec 18. It will broadcast synthesized speech on 435.003 MHz FM and via AMSAT-OSCAR 10 relay on 145.972MHz FM.

You may be bothered by a ultrasonic pest control. They operate on frequencies from 20 to 470 MHz. If you are interested you may contact Joe Husnay at 301-725-1585 at the FCC Laboratory.

The DX Century Club Branch has an opening for an Assistant DXCC Manager. Contact ARRL HQ for more information.

Bart J Jahnke, KB9NM is ARRL's new repeater directory manager.

November 21, 1985

The results of the Division elections were indicated. Northwestern Division was not involved.

In the 160 meter band Amateur Radio is secondary to radiolocation as of Dec 8. The radiolocation that was in the 1605-1705 kHz will not be permitted to apply for space in the 1900-2000 kHz until July 1, 1987. Wideband and or Spread Spectrum is authorized here.

The League requested a reconsideration of the deletion of the 30 day wait between taking the test, the FCC denied their request. There seems to be some controversy over the Novice exam that will get ironed out soon. The FCC is aware of the problem.

The Video tape called SAREX of the space shuttle Challenger is now available from ARRL Hq for \$25.00.

F8E emission is now authorized on 902-928 Mhz., and maybe above 928 Mhz later.

FCC officialy adopted a Report and Order that replaces the former input-power-measurement standard with a power-measurement standard based on peak-envelope-power output. 1500 watts being maximum power output. This has an impact on AM double-sideband full-carrier radiotelephone [A3E] operation, typically limiting such operation to half power. Glen Baxter, K1MAN, went to court over this one and lost. He says he will go to the Supreme Court. HQ receives a small but steady stream of letters from Hams that want to "stamp out spectrum-gobbling AM". The emissions used by most amateurs between 1.8 and 30 MHz is amplitude-modulated. By "doing away with AM" we'd be blowing away SSB [J3E] and CW [A1A] emission as well.

There is a job opening at ARRL Hq of ARRL Convention Program Manager.

FCC's San Francisco seized \$40,000 of illegal electronic equipment from two electronic outlets. Mostly illegal CB equipment.

December 5, 1985

Canada is in the process of restructuring their amateur radio program. Looks like about three classes of license.

Looks like FCC will allow "spread-spectrum" communications along about June 1, 1986. This sounds interesting however it will probably take some new equipment. And it will be back to the old "log Book" procedures again as FCC wants to keep track of this kind of transmission at least for a while. FCC also limited this to above 420 MHz. More on this later.

ARRL has appointed an "ad hoc" committee to look into the spread-spectrum thing.

FCC closed the loophole on third party participation by re-writing the rules so as to not allow anyone that has had his license revoked to operate another hams station.

US/KOREA third-party holiday traffic got the OK to use by both the US and Korea. This is in effect from 0001Z 20 Dec 85 to 2359Z 4 Jan 86.

ARRL says clubs can sponsor plaques for the 1986 International DX Contest. This is a way to publicize your club's commitment to DX and contesting.

MEN

We are low on money for men's prizes.. We have collected only \$48.00 so far---. I have gotten items from only a few members and usually the same ones. I suggest everyone dig deep in their pockets or bring the really needed items for me to raffle off.

Jerry, W7BUN, gave a great program on Ham radio in Japan and Malta. I'm sorry more people couldn't show up. They certainly missed out. You should have seen all of the guys drooling over the ham equipment stores in Japan. The jewels and glassware he showed us were great!!

My program will be the other half of the tape from the Kaw Valley ARC in Topeka, Kansas. It will show the space shuttle from W5LFL. It was suggested that we consider making a video from our Club and circulating it to others. I got information from a World Radio paper sent to me. The Relay will be giving information in the availability of the subscription to Club members.

WB7VJA - Pati

REMEMBER - - check your data on the roster in November's Relay. If not correct please advise your Editor at the December Club meeting as the roster will only be updated each January and July (only twice a year).



+NOTICE+++NOTICE+++NOTICE+++NOTICE+++NOTICE++
+
+ John Rehnstrom, W7HQG, Trustee #2 has
+ verbally expressed his desire to resign
N his position as Trustee of the Club. N
O The Executive Board has accepted his O
T his resignation. T
I I
C Therefor, a special election will be C
E held at the December Club meeting to F
+ elect a member to the position of
+ Trustee #2, for the balance of the
+ vacated term.
+
+NOTICE+++NOTICE+++NOTICE+++NOTICE+++NOTICE +

NOTES-!-!-!-!-!-!

Hal, N7NW, says he has one medium size white jacket for sale. This jacket comes complete with Club Logo on the back. See Hal's price.

Had a nice Video program on Kaw Valley ARC last Club meeting. KVARC is located in Topeka, Kansas. They are into public service and have a very extensive emergency communications network going for them. They seem to be tied into just about every public service organization that you can think of.

The Awards Committee consisting of the past three recipients of the MKARC "POP BROWN" award will soon be meeting to make awards selection for the year of 1985. If you have any suggestions please contact one of the following: Hal Goodell, Mike Cross or Deborah de Jong.

Please bring one of your QSL cards to the December meeting. Regardless of what kind it is please bring one. WA7EKH needs them for ideas for the new Club QSL card.

The Nov. issue of the RELAY included a roster of the Club members. There was also a note with the roster for each of you to check your name, address, etc. and to let your Editor know if there was any changes to be made. The plan is now to update this roster once every six (6) months.

How many of you like to read about things in this paper --- How many of you would like to share your things with others -- just get them to your friendly editor and they will appear in the paper --

Be proud of your Amateur Call, pronounce it distinctively so I can understand it!!! I guess i am getting hard of hearing along with everything else because a lot of those calls seem to run together.

At the last count there were just over 412,000 hams in the United States. That isn't very many compared to the population of the good old U of S. We of the Amateur fraternity should try for an increase in our ranks before we get our frequencies taken away from us.

I wrote to the ARRL the other day for a list of all the computer programs that they have available. For just a SASE of 39 cents they will send you a copy of the program that you can type into your computer. It is too lengthy to list here however, I will have the list with me at the next meeting and you can see what they offer. WA7EKH.

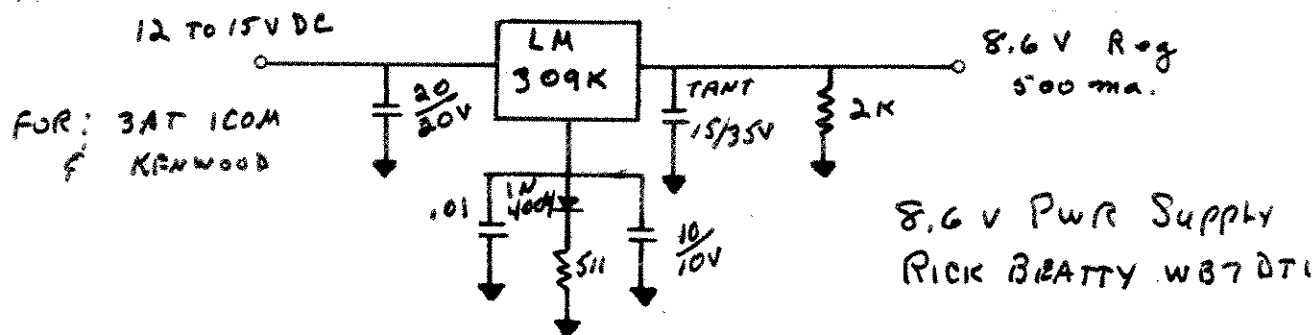
The net on 224.12 is on each Monday evening at 8:00 pm. I have checked in a couple of times, however I have other commitments at that hour on Monday. Those of you who don't have anything better to do give it a try. We need to get our members together on some frequency and it looks like 224.12 is a good one to do it on.

The attendance at the Flea Market meeting has picked up a little, but, I don't see you there. It seems that just about all the ones that show up are part of the Club Executive Board. Isn't there some of you that have some interest in the Flea Market and can offer some help????

We are in the process of entering names from the last Flea Market into the computer for a mailing list. If there is any one that you want a flyer sent to please let me know.

Watch the expiration date of your Amateur license and don't let it lapse. The new license is for 10 years and it is easy to let it slip by.

Those of you who don't have your call as your automobile license number should do so. That is a privilege that makes us outstanding from the rest of the world.



Try that at 20WPM CW! When my employer decided to send me to Switzerland last month, my last thought was of trying to get on the air. I was being sent to Zurich to help in the transfer of some equipment to our sister company, and trying to cope with getting a reciprocal license for two weeks was far more trouble than it was worth.



Walking into Gretag that first day, my first introduction was to a man named Hansruedi Nyfeler. It seems my interest in Amateur Radio had preceded me and Hansruedi did his best to make me feel at home.. By that Friday I was expected for dinner at his apartment, which to me was suprising because I had been told the Swiss led private home lives and only invited close friends.

New acquaintance or not, there I was on Friday meeting his lovely wife and children, of which none could speak any English. After introductions were made Hansruedi ushered me into his shack and told me that according to Swiss rules, I could use his station and call, with my call after. Then, my only decision was whether I wanted to use SSB or CW. - CW of course!

Well, the next two hours went quick. It started out with GM4ZFS and snow-balled from there. OH3, IU2, LA8, HB9, UW6, and VE2 were only a few of the many prefixes coming my way. It is amazing to be on the air and hear NO U.S. stations. I tried to hit stateside but nobody came back. I wasn't disappointed though, how could anybody be upset at being the attention of a pileup in Europe. The only real problem was that call. It sure made a long ID, and then I would have to send it again because the other guy was never quite sure about that Swiss-Yankee in Zurich.

We sort of forgot about dinner until Hansruedi's wife called, and what a dinner it was! Home cooking, after a week of eating out. The only thing was, she thought I could eat a lot, and she piled it on. Being a good guest, I ate it all, and then had seconds. All the while, the children couldn't figure out why I didn't understand what they were saying. What an evening!

"What do you mean there is more Hansruedi?" Now we have to go out and meet the local gang of Amateurs at the Pub. Fortunately, several spoke English and I was able to follow the conversation pretty well. Of course, after several beers, I didn't need any translation.

Well, thats it. It was fun and an experience I would recommend for anyone. I just hope ICOM and the RC of Tacoma don't get to upset because somewhere in Zurich, HB9CSY is running around in a "ICOM Hamfair 85" cap.
Mike - WA7UVJ

COMING ACTIVITIES

- Jan - No activity evening due to previous holidays
- Jan 18 - Private tour of ICOM facilities in Bellevue after the Club meeting. Meet at ICOM at 12:00 noon
- Feb - Flea Market work party and organization
- Mar 8 - FLEA MARKET
- APR 5 - Awards Banquet at Sand Point Naval Station.

CHANNEL BUSY LIGHT FOR IC3AT

Carl Butler - W7PRW

It is possible that the instructions contained herein were published in one of the "Ham" magazines, however, which one or when is undeterminable at this time.

By replacing the existing RED LED with a two color, RED & GREEN LED, adding a three inch length of small insulated wire and a 1 K 1/8 W resistor, the RED transmit indicator is retained plus the GREEN channel busy indication is achieved.

The following steps are provided for guidance:

1. Remove battery pack and antenna from radio
2. Remove Vol. & Sq. control knobs and lock nuts.
3. Remove metal plate from bottom of radio (four small flat head screws).
4. Remove two screws from back side of radio case (holds front and rear halves of case together).
5. With rear half of case removed and radio lying face down RED LED will be seen on right end of PCB holding vol. and sq. controls.
6. Using solder wick or your favorite method remove solder from LED mounting holes on PCB.
7. By gently pushing down on this PCB it can be lowered just enough to remove the LED.
8. At this point note shape of removed RED LED and modify housing of new two color LED to provide similar external dimension. This is to provide a small tip which will extend up into the top housing of radio. DO NOT CUT too far down on LED (toward wire leads) to destroy LED. Look closely at internal construction of LED to judge stem length.
9. Next determine RED & GREEN leads of new LED. Attach NEGATIVE lead of 9 VDC to center lead of LED. Attach POSITIVE lead thru a 1K resistor to one of two remaining leads. Identify RED function lead is in bottom hole of PCB, gray wire attached on my unit. DO NOT SOLDER YET.
10. With LED installed in its upper most position of top cover replace lock nuts on vol. & sq. shafts and tighten. Now solder LED leads to PCB. The remaining LED lead (GREEN function) is laid over top edge of PCB for subsequent connection.
11. Remove two small flat head screws that hold the two main chassis halves together. This will permit access to the foil side of the main hinged circuit boards. Near the 7 o'clock position of the hole for speaker clearance you will locate pin #3 (see note) of 10 pin chip which is mounted on the component side of the board. Solder one end of three inch small insulated wire to this pin #3. Route the remaining end of this wire up to the newly installed LED. Connect a 1K 1/8 W resistor between end of this wire and the GREEN lead of the LED. A piece of shrink tubing could be installed over resistor and solder connections to avoid possible shorts.
12. This completes the modification. Reassemble and test. Good Luck. No stock number or name brand information was available for the LED. My new LED was shaped by a friend on his lathe.

NOTE: Pin #3 is determined as #3 from bottom while holding radio in upright position. This may not be pin #3 on chip as determined by manufacturer.

BOARD MEETING - DEC 11, 1985 - 7:30PM

Members Present: WA7EBH, WA7TAI, WB7AYU, WB7VJA, WA7LNQ, K7ND, N7NW, W7KCX, K7MRH, WA7EKH.

PRES: WA7EBH has reserved "The Good Neighbor Center" facilities for Jan. through June of 1986. Six months intervals is maximum time the hall can be reserved.

V. P.: Two prospective members are eligible to be voted in at the next general meeting.

Sect: Materials ordered from World Radio and ARRL have been received by WA7EKH.

Trea: Balance - \$2882.63.

Act Mgr: Pati will schedule for talk by W7JIE in near future.

WA7LNQ: Informal club net on the K7LED 220 club repeater. Mondays at 8pm.

K7ND: No definite plans on Novice class at this time.

N7NW: Flea Market flyer is ready for printing. Plans for promotion and advertising are underway. Preliminary mailing in near future.

WWARA: Board in favor of continued membership in Western Washington Amateur Relay Association. Yearly dues are \$10.00.

Adjourned at 9:10pm. Next meeting, January 8, 1986 at WA7EBH QTH.

224.12 MHz CLUB NET

November 18, 1985 the Mike and Key Club began a new net on the 224.12 Repeater.

The first night there were a whopping "15" checkins!! As it stands now this net will meet every Monday evening at 8:00pm with all Club members and visitors welcome.

The next two Mondays were down in checkins, but the net is alive and well. Come and checkin!! give us your idea's. Listen to Westlink!! This is your net and you can "make it even better!!" Besides, there isn't any QRM, QSB, or QRN to create a problem. Just nice clean FM coming from your radio.

All you need is a "hand held" to hit the repeater. See You Monday Evening!!!

Rick WB7DTI

REPEATER NEWS

The 220 MHz club repeater continues to operate very well. The new isolator has arrived and will be installed as soon as we can make it to the site. The snow depth is reported to be 2 to 3 feet. A Monday evening club net has been started informally at 8pm. We hope you can join us. A roving radio has been provided on loan to be drawn for at the club meetings. The requirements are that the winner put the radio on the air for one month then return it to the next meeting for someone else to use. - Ken, K7YR, will be working on a linking system to connect 6 meters to 220. Rumor has it that the link will provide other capabilities also. More is to follow on that. Hal N7N.

FLEAMARKET

The Club Flea Market is scheduled for March 8, 1986, at the Puyallup fair grounds. We need your help to put this activity on. A sign up sheet will be passed around at the December meeting. If you can't make it please contact Hal, N7NW, at 927-7603 or on the 220 club repeater to sign up. The flyer has been prepared and is going to the printer. We desperately need people to head up the various committees. Please give us a hand.
Hal N7NW

Just as the Relay is going to press the good ole "US of A" Mail man delivered my copy of the "World Radio" publication. I really haven't had time to go through the entire copy, however, there is an interesting article regarding Cellular Telephone and Amateur Radio and phone patching.

I'll either run the whole article in the January issue of the Relay or give you a summary of the article as we as Amateurs are being picked on again and I think we should defend our frequencies and rights to operate Amateur Radio without some big communications company trying to tell us what to do.

There are bills in congress on this now!!
Ray - WA7EKH

MERRY CHRISTMAS

HAPPY NEW YEAR

TO ALL

CHUCK - GENIE - WARRIEN - MIKE
PATI - DICK - JOHN - JIM - HAL
JIM - KEN - RAY - VERN

