

# K7LED

# RELAY

AN  
ARRL  
AFFILIATED  
CLUB

Club Radio Officer: Ken Rau K7YR

NEAR SEATTLE, WASHINGTON

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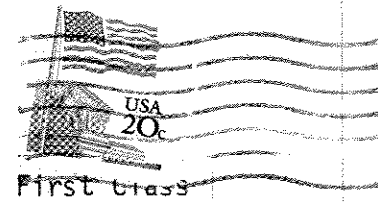
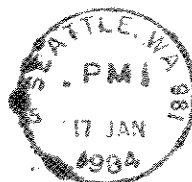
### CLUB OFFICERS

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The K7LED RELAY is the official publication of the MIKE and KEY AMATEUR RADIO CLUB, 23206 SE 53rd, Issaquah, WA. 98027. The Club meets the third Saturday of each month at 10 a.m. at "The Good Neighbor Center", 305 S 43rd St. Renton, WA. All "Hams" invited.

The Mike and Key net meets each Sunday morning at 10 a.m. 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. 98033



### REPEATER FREQUENCY

**147.08-68**

### BOARD MEETING

BECKER'S QTH  
8 FEB 1984

### CLUB MEETING

UGN Center - Renton  
21 JAN 84 10:00

### ACTIVITY NIGHT

Forest Ridge School  
Bellevue (same place as  
Xmas Party) 1st Feb at  
1830 Bring food!!  
You'all come you'hear!!

K7WTG  
PETE HEDBERG  
20904 NE 77TH ST  
REDMOND WA 98052

In the December issue of the RELAY, we ran an article on Preamps, along with an article on MIKE and KEY ACTIVITY NIGHT. Here is some more information on the Preamps.

#### TWO METER PREAMPS

Parts have been ordered for the Preamps, however, a limited number are still available. Orders should be placed with K7ND or N7NW no later than January's Club Meeting. Models for 220 MHz and 432 MHz are also available. The design for the Preamps is taken from an EME note, distributed by EIMAC. The device we will be using is an MGF1202, providing .5 noise figure and about 20db gain. The preamps are easy to build and work very well. Two automatic noise figure meters will be provided for tweaking. Anyone is welcome to bring their own Preamps along to see how they measure up to the GAASFETS. Bring some tools (pliers, dikes, soldering pencil, solder) and a dish for the "potluck" dinner and we'll see you there, Feb 1st. Jim K7ND

# 147.08 - 147.68

ACTIVITY EVENING 1 February 1984 1 February 1984 ACTIVITY EVENING

You may have no interest in Preamps or things like that, however, I believe that each and everyone of you have an interest in food, good food!! Along with the Preamps, or I should say along with the food we have Preamps, and the food is connected with the M&K Activity Evening. This Activity Evening is a Club activity that was started to get our members together one evening a month to promote good will, visit, enjoy, and get to know each other. There will be no Club business transacted, all fun only.

The February Activity is on the 1st of February (first Wednesday of each Month) and will be at the Forest Ridge School (the same place we had the Christmas Party). If you can't find it, we will be guarding .08-.68 for talk in.

This will be a "POT LUCK" type of meal so everyone come and bring your favorite dish to share with the rest of us. The club will furnish the plates and eating utensils. Hey!!, don't forget to bring your Lady, she is welcome too, you know. There seems to be quite a few Club members that don't attend any of the Club activities, even the main Club Meetings. This is a good time to come on out and see what is in store and get acquainted with the rest of us.

The first Activity Evening was held at H.D.HOTSPURS in Kent. They have Bar-B-Q'd ribs, chicken, and other good things. Boy!! was that good eating!! There were 25 of us that attended including the speaker who gave us a travel-log of places he had been. His slide show was very interesting. Most of us got there early enough to get adjusted a little before the meal. We had the back room, the table was set, a long one, 12 places to a side. As luck would have it, it was an "all you could eat" night so we got our moneys worth. We were served with a plate of ribs, chicken, cornbread and beans, all Bar-B-Q style. Honey and butter for the cornbread. The first portion was adequate, however, some of us had to have seconds (wonder where K7YR was, he would have really enjoyed it) We broke up about 2130.

From the comments that I overheard it sounds like we are going back there again, and again, and again!! Come on out and help us make this activity a success. We are open to and for suggestions so lets hear from you.

Worked all States on 220MHz

Terry, W0VB, became the first person to WAS on 220, Nov 15, 1983. Thanks to a few other expeditions, he worked his way up to 49 states confirmed and then as it looked like he would be stuck there forever, he packed himself off to Hawaii. The accompanying newsletter, written by Terry, passed along by Lee, K5FF, tells how he did it. The amount of work involved cannot be realized by just reading the letter. Jim K7ND.

\*\*\*\*\* 220 MHZ EXPEDITION TO HAWAII \*\*\*\*\*  
(Nov 13, 1983 - Nov 23, 1983)

by W0RGU Carl Laumann Jr and W0VB Terry Van Benschoten

The trip to Hawaii proved to be the most difficult of all our DXpeditions so far. The logistics of transporting a complete EME station to KH6 land was the cause for consternation. If I were to document all the expectations/fears of operating moonbounce from "over there" it would be lengthy, confusing, and inaccurate. Therefore, I'll identify the events as they happened - with a few comments where the perceived was far from reality.

First, the equipment used was that of the station operated by W0SD and W0TEM on the Ore/NeV and Id/My borders. This station was made up of TEM's ICOM 730, homebrew Transverter, remote mounted Gasfet preamp, control box for sequencing the remote antenna mounted preamp, an 8877 amplifier with a 3500V Power Supply, RF attenuator for the 28 MHZ drive (100 watts down to 600 mw), into TEM's 8 - 15 element yagies (homebrew). The H - frame, tripod to support the antennas, and the elevation rotor and manual azimuth position and readout were provided by W0VB and W0ANH. The intermediate amplifier was a Mirage 10-120 watt 220 solid state amp provided by W0RGU. Also provided by W0RGU was a backup MMT220/28 Transverter. An AEA keyer was provided by KOSE. Much time and effort during the expedition was expended by Carl, W0RGU, more on this later.

Second, the Hawaiian location was arranged by a phone call for help by W0VB to KH6BFZ (another I.B.M. employee who was unknown to W0VB). Have you ever tried to invite yourself over to a stranger's house? Joe Keola, KH6BFZ, consented to the operation from his home QTH during the week preceding Thanksgiving. Several phone calls were required to confirm just how much equipment was to be transported to Joe's QTH from the Honolulu airport. As it ended, a little over 600 pounds were shipped over and back from Hawaii. That's 600 !!!!! pounds.

Oh, the equipment was not just sitting in W0VB's garage when the plans were being made.... off to W0TEM's house for the portable EME station by W0RGU and W0VB - 5 and 1/2 hours each way (525 miles roundtrip). All this on the week end after W0SD and W0TEM's western EME trip and the weekend end prior to the Hawaii DXpedition!!!!!!

Third, turns out to be the saga of shipping the complete station to Hawaii. Enter Northwest Airlines. After several trips to the Rochester airport to discuss the allowable sizes that will be permitted for shipment with the ticketing agents, the equipment was disassembled and put in boxes. Oh if it were only as simple as that. Each antenna broke into only 2 pieces. Ten foot long and 5 foot long each with the elements attached. Thus, a new hobby was started.... searching through thrown out cardboard boxes large enough to contain the antenna pieces. The result, two refrigerator boxes did the job nicely. Cardboard was used since the cost per pound Airfreight is \$1.20 per pound.... ONE WAY!!!!

Also, the H.V. power supply was taken apart to reduce the possibility of damage during shipment..... but the transformer alone weighed 108 pounds. A wooden box was constructed by W0RGU along with a set of welded handles to facilitate shipping.

All in all, shipping related, the real thrill or surprise came when Northwest Airlines permitted all the equipment to be shipped as "CHECKED BAGGAGE" !

The arrival at Honolulu airport created a chuckle when the "Checked Baggage" came up the chute for the passengers....and they all watched as the 12 foot long poles came up the chute like the lance being wielded by one of the Knights of the Round Table. It appeared they had no end to thee as they came out. Following that came the "H-FRAME" followed by the transformer. All 13 items appeared as checked.

Fourth is the actual operation in Hawaii. The transportation to KH6BFZ's house was provided by KH6BFZ and KH6KL, two vehicles - both needed. The 40 minute trip to Kaneohe was enjoyable and immediately followed by the assembly of antennas, H-Frame, tripod, and H.V. power supply. Darkness fell on us and the activity was moved inside to the operating position within the house. All the equipment was set-up and the outdoor work was putoff for daylight the following day (Monday November 14th, 1983). On Monday the tripod was mounted on the roof.... yes the roof. It was the only spot that was open enough and as such made it necessary to climb a ladder every 15 minutes to change the azimuth (W0RGU's main activity) during the operating times (the azimuth was moved manually, a disc was used to provide the readout). The entire antenna, feedlines, and station set-up was completed at about 5 P.M. local time.

The equipment was turned on, adjusted, and tuned up. Output looked good, about 700 watts out, 30 watts reflected..... Now, does the receiver work? A beacon for 220 MHZ was brought along but the ham who had it (KH6KL) was not home from work. Oh well, the antennas are pointed at the moon..... DAA DAA DAA DAA..... back came dah dah dah .... Eureka! It's operational !!!!!!!

The following stations were logged;

K1WHS	WA3GDD	K4PKV	W5FF	KD6R	K9KFR	K9XY	W0DHU	WB0TEN	KA0Y
VE3EMS	WA3BPY	K5FF	WB5LUA	K9HMS	W9UD	W0FOY	W0SD	W0VB	K0ZK

Heard but not worked:

W1JR	K2DS	W4ND	K7ND
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The results showed that:

- 22 contacts were completed.
- 20 different calls were worked.
- 12 states were contacted.
- 2 countries were worked. (Canada and the U.S.)

\* The Hawaiian hospitality given us by Joe, KH6BFZ, was exceptional. His style of Amateur Radio always provided us with new people to meet and talk with. There always seemed to be at least 3 to 4 local hams at his QTH each evening. Included was KH6P (Dan) and WH6AMX (Jim), two people actively putting a Two Meter Moonbounce station together. Equipment consists of four Jr. Boomers, a Lunar Gasfet preamp, and a pair of 8874s (Tempo 2002).

Many thanks to W0SD, WB0TEN, W7HAH, W06BNK (KCOP at the mike) for their fine efforts in providing continuous communications back to the mainland during the expedition. For those that we did not complete with, it is hoped that the dedicated skeds on the last evening of operation at least gave everyone an equal shot at a contact.

During the first 5 days of the expedition, all stations were worked randomly. Only during the last day did we run skeds. The equipment was torn down on Sunday, November 20th, 1983 in order to ensure that the expedition that W0SD has planned for mid December would indeed take place. The airport requested us to bring the equipment in one day prior to the flight. On Monday, the equipment was brought to the Honolulu airport, inspected by the Agriculture inspectors, final tape applied by KH6BFZ and W0VB, tagged by Northwest Airlines, and left for shipment for the next day's flight.

As a note of interest to those who would also like to make "EARTH SHAKING" contacts, look into W0SD's December DXpedition. This antenna system was first used by W0SD and WB0TEN on the Oregon and Nevada border. Hours later an earthquake measuring 6.7 on the Richter Scale took place in Idaho and Montana. The day after KH6BFZ was activated, a neighboring island had an earthquake measuring 6.4 on the Richter Scale. Watch out East Coast...

Many thanks to Barbara, my wife, for supporting me in the entire effort necessary to achieve "FIRST WORKED ALL STATES ON 220 MHZ" and to Carl, W0RGU for his continued support throughout the quest.

73's

Terry, W0VB

As a quick note, there is no box on the W.A.S. application for 220. Guess we'll just have to keep creating our own box to check off or request the ARRL to have the form updated!!!!

## NO-CODE BURIED

★ "Basically I feel the item is a report on the health of the Amateur Radio Service. The Amateur Radio Service is well, it's thriving, and it's providing an excellent service to the American public." With these words Private Radio Bureau Chief Robert Foosner introduced the staff recommendation to the FCC Commissioners that the "No-Code" proposal (Docket 83-28) be dismissed "for keeps." Almost 5000 comments were filed, running 20 to 1 against removing the code requirement.

Foosner said that in reaching the decision, the Private Radio Bureau considered three questions: (1) Is the Amateur Radio Service growing? (2) Is the code an unnecessary barrier to young computer-oriented individuals? (3) Is the slow-speed code requirement discriminatory against handicapped individuals? Question one was answered by statistics showing that in 1930 there were 30,000 licensees; in 1975, 300,000 and in 1983 well over 400,000. On the second point, Foosner noted that although the code test is something one must prepare for, it requires a minimal amount of study to pass the slow-speed exam. Finally, Foosner read a portion of the comments filed by Handi-Hams, which reported that they had

trained over 5,000 severely handicapped individuals in the skills needed to pass Amateur Radio examinations. For some of these individuals, Morse Code is the only mode that they are capable of using!

"In conclusion," the bureau chief said, "I strongly recommend that we maintain the code requirement, we endorse the Service as it is, and we bury the concept of 'no-code.'" Ten months ago few hams would have expected this statement to come from the FCC staff. But that is what the staff recommended, and a few minutes later the FCC Commissioners voted unanimously to keep the Morse Code requirement for all classes of ham licenses in the United States.

Chairman Mark Fowler made these concluding statements:

" . . . I think this is the right decision; we can put it to rest once and for all and I agree with the item . . . Radio amateurs have contributed vitally to our country just recently; they were stalwart in their services in performing communications with Grenada . . . The Code sometimes is very important, indeed even critical for getting the messages through . . . "

★ The FCC has informed ARRL that a permanent third party traffic agreement is now in effect between the United States and Grenada, J3.

★ The State Department has announced a temporary third party agreement between Korea (HL9) and the United States for the holiday season. From 0001 UTC December 20 to 2359 UTC January 4, U.S. amateurs may exchange third party traffic with U.S. military personnel stationed in Korea.

★ The FCC formally reprimanded an amateur for mailing an altered copy of his license to the Radio Amateur Callbook. General Class ham Raymond C. Bower, WA1NMC, wanted to be listed as an Amateur Extra licensee. A Commission news release dated December 21 stated that this was a "misuse of a Commission license and did not comport with the high standard of conduct expected in the Amateur Radio Service."

★ The FCC has commenced issuing 10-year amateur licenses. P.R. Docket No. 83-337 became effective on October 15, 1983, but actual implementation could not get underway because the Commission's computers needed to be re-programmed. (See December 1983 "Happenings.") Licenses that specify the old 5-year terms will still expire on the date shown on the license. The new 10-year license term will begin only when a license is renewed or modified. Of course, new, first-time licenses issued will now bear a 10-year license term.

★ A national amateur radio society has been formed in the Republic of Vanuatu. The ARRL Outgoing QSL Bureau now accepts QSL cards to be forwarded to YJ amateurs. The address of the society is: Vanuatu Amateur Radio Society, P.O. Box 665, Port Vila. It is expected that the VARS is going to apply for membership in the IARU.

**Did You Work W5LFL?**

This is the first draft of the W5LFL log, which we've put together after carefully transcribing about 4 hours' worth of tape. Background noise made it difficult for Dr. Garriott to write down or respond to each call received. The entire W5LFL log was recorded on tape; therefore, the tape becomes the official log. If your call isn't there, check the list of incomplete calls that follows the first list. If you attempted to contact W5LFL and are not on the first list, please do the following:

Look for a call sign resembling yours in the list of "Incomplete" calls. If you find one, send us as much information about your transmission as you can, including date and time in UTC. We'll compare it to the time on the tape, and decide if your call qualifies as a contact. All determinations will be made by W5LFL and ARRL. Address your QSO information to ARRL Hq., ATT: W9KDR, 225 Main St., Newington, CT 06111. — *Bernie Glassmeyer, W9KDR*

AA6S AB7C AE7Q AJ6L AL7W CE3CKE CE3AHD DC6SN DC6AH DC8AM DF6UQ DG6NAA DJ1IJ DK6RX DL8GAA DL1YCA DL9GAK DL9MH EA3AWD E8RTS EI3FI F1FVX F5AD F8AVG G4UYL G8DEF G8EGY GM8NXC GY6QJK HH2CX I1NRF ISFBP JY1 KB1IR KBRI KBRLZ K11KN K1PAD K1PXE K2IBP K2OVS K2RIW	K2TTI K3DI K3NV K3PGP K3TC K4GFG K4JT K5ADQ K5CAY K5IH K5OKG K5OXE K5QHF K8DYD K8GSS K8LY K8MYC K8TDR K7GJ K7ND K7SMV K7UGA K8CS* K8KNT K9BI K9HMB K8BPGN K8BY KA2BDT KA4WJA KA5FPV KA5DQZ KA7GHR KB4CRT KB4VM KB5AMN KB6TN KB8V KC4P KC7EM KC8KE KDSJH	KD6LQ KD7Y KD7RF KE5C KE8VK KE8XJ KFBM KF4SX KF6Z K17L* KN8L KN2D KO5D KO5W KS1S KT1U KX8O KX8C KY4Z KY7B N8COX N8CX N8L* N2EK N4GAN N4HY N4JBK N5DLZ N5DDT N5EZH N6AVR N6DD N6ECL N6JM N6NB N6QP N6RJ N7ARE* N7BHC*	N7DOF N7WS N8DEJ N9GA NG5P NMSI NN6E NR4P NT8G OE8WIG OE7FRH OF2XN OH3XA OK1DFG OK1DHG OK1KRA OK2BDS OK3CGX OZ1DPR OZ1ELF SM2KT SM4CLU TJ3DJT VE1AFU VE1BB VE1CAW VE1CGY VE1OC VE1UT VE3BNA VE3BNO VE3KLV VE3KRP VE4CO VE7BOQ VE7CYB VK1BX VK1DF VK1ORR VK1RR	VK1ZAH VK1ZIF VK1ZQR VK2KPG VK2PMN VO1BK VO1DI VO1FP VO1FR VO1GG W8PHD* W8PN W1AW W1PSG W2EFL W2GDY W2JNO* W2NQ W2PAU W3CWG W4AQL W4BE W4MOP W4MOW W4ROA W4WJ W5PF W5GEL W5HTK W5HUQ W5LFG W5LUU W5PNY W5RRR W5UN W6KH W8LEV W8YBL W8YX	W7AVD W7BGH W7ID W7KMF W7RV W7SW W7YKN W8AC W8FOK W8GUS W8WN W9KDR W1AW WA1BAR WA1FCK WA1JXN WA1PSI WA2BSH WA2CHY WA2SEF WA2VMS WA2WVL WA4BEV WA4BZJ WA4EWA WA4GIJ WA4KXY WA4LZR WA4MMD WA4PLR WA4SBC* WA4TNV/KL7 WA5AFO WA5DBY WA5DKR WA5NOM WA6CFM WA6IUM WA6KNR WA6PEV	WA6RLV WA6SGK WA6YBT WA7BJU WA7JPM WA7JUC WA7RQS WA7UIB WA8KEM WA8MTI WA8TXT* WB8SWD WB8TTW WB2ONA WB4EMI WB4YJC WB4YUD WB5AZI WB5DSH WB5PDW WB5RRR WB5VZL WB6DEO WB6DTR WB6GYE WB6DK WB6NOA WB6NWX WB8PAT WB8MSV WD8FOY WD4FAB WD4YS WD4KSN WD4RJ WD4VCS WD5BFB WD5HFB WD5KBZ WD6AUS	XE1ALQ XE1FV XE1TU XE2RCP YU7KN YU7MAU
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\*Heard on CW

**Incomplete Calls**

<b>Orbit 40</b> WSV _ KA _ _AJW  <b>Orbit 58</b> WA7RV _ W7Q _	<b>Orbit 71</b> W5U _Z WA7 _ _V WB5 _B _ _5RN WD5CG _ WA4DN _  <b>Orbit 97</b> K5A _	<b>Orbit 111</b> OE7U _ DL9 _ HG8 _N DH8AA _  <b>Orbit 113</b> WA4N _ K2U _	<b>Orbit 130</b> WA6G _ K5 _V WA6 _ WA2VW _  <b>Orbit 134</b> KA7 _ KR8 _ N8C _ W4 _	<b>Orbit 135</b> WB5L _J _6E K5D _ _11X  <b>Orbit 144</b> _XC WD4 _ KA1 _ _OG _A _A _1DCR	<b>Orbit 145</b> _ZPR WB2JS _ _YW  <b>Orbit 146</b> W7 _ VESJ _	<b>Orbit 149</b> VE3 _ WB9C _	<b>Orbit 150</b> WA7 _ AD1 _
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ARRL Headquarters is open from 8:00 A.M. to 5:00 P.M., Eastern Time, Monday through Friday. The receptionist will be available to welcome visitors and accept phone calls any time between these hours. If you are calling long distance and wish to speak to a specific member of the Hq. staff, however, there are certain "core hours" when it would be better to call. If you call between the hours of 9:00 A.M. - 11:30 A.M. and 1:30 P.M. - 4:00 P.M., Monday through Friday, you generally will be able to speak directly to the specific staff member you request. Staff absences from the office during these core hours shall be kept to a minimum. Only business travel and other special reasons will keep staff members out of the office during

these times. From 11:30 A.M. to 1:30 P.M., the Hq. staff will be taking staggered lunch breaks. The various departments will be adequately covered, but, again, if you wish to speak with a specific member of the staff, you may want to avoid calling long distance during this lunch period in case the person you want is out of the office. This new schedule comes as a result of the Hq. staff going off the four-day work-week effective January 1. Half of the Hq. staff used to work ten hours per day, Monday through Thursday and the other half ten hours per day, Tuesday through Friday. The new schedule means that all staff members will be available five days per week. The operating schedule for W1AW is unaffected by this change.

Now is the time to talk about Jack Rabbits, Transmitting Tubes, Stove Wood and M & K Club dues. Instead of enclosing a gentle reminder in the form of a note in the Relay, this time I will list those of you that dues will expire during the month of Jan. Sometime ago it was deemed that all dues would be due in January. At that time the club didn't have much money, so, to enable us to know what we would have to work with during the year, we had the dues due in January. Now we have a lump!!! Since that time this idea has dissapeared but there are a lot left with January dates.

Here they are, by call sign, if you have a call sign - - - -

Diana Becker		David Gipson
N7AVO	W7KCX	WA7RJW
WB7ADX	W7KOT	WA7TAI
WA7EBH	WA7NIW	WA7UEW
WA7EKH	N7NW	WA7VEB
WA7EJY	WN7NXC	WA7WKT
W7GPW	K7PFR	K7WTG
W7GSE	W7PRW	K7YR
WA7KBK		

Plan on attending the January 21st meeting. There are lots of new and different things going on this year.

FOR SALE FOR SALE FOR SALE FOR SALE

Gib, W7JIE has the following for sale at the price listed. If you are interested give Gib a call 226-4222, in the evening please as he may not be home or something.

TRIPLETT model 631VOM & VTVM. Battery operated, plastic case with instruction manual. Excellent operating condition. Ranges: DCV 0-1200V. DCMA 0-1200. DC Amps 0-12, Ohms 0-150 meg in 4 ranges. DB -20 to +63. \$45.00

SIGNAL CORPS VTVM ME-26B. 120VAC. Like new. With leads and AC probe. Instruction manual included. Ready to use. Ranges: DCV 0-1000V in 7 ranges. ACV 0-300V in 6 ranges. Ohms 0-500 megs in 7 ranges. Freq: 20Hz to 700 mHz. \$45.00

5 1/2 HP Horizontal Shaft 1-cylinder Stationary Gas Engine. Shielded ignition. Just overhauled and in good running condition. Perfect for powering your auxiliary generator or automotive alternator for emergency power supply. \$75.00

BATES rotary file (large size). Great for filing QSO's, QTH's fone numbers, etc. New and unused and I don't need it. (Editor's note: No price stated)

Once again call in evening only, TNX - Gib.

Some of our M&K members participated in the 1983 ARRL September VHF QSO Party and they made quite a showing. It is all listed in the January 84, QST.

At the top of the list for Washington is STEVE TILLET, K7KOT. Steve operated on 4 bands, made 135 contacts for a score of 5070. A little farther down the list is HAL GOODELL, K7NW. Hal had a little help. He ran a multi-Op station with JIM CHRISTIANSEN K7ND, KARL de JONG N7AMX, JERRY WA6NHB and RICK BEATTY WB7DTI, They operated on 5 bands, made 180 contacts for a score of 8720. Good work, better luck next year.

★ The National Cable Television Association (NCTA) has indicated a willingness to communicate with cable operators involved in CATV/Amateur Radio interference disputes with the goal of effecting resolutions in individual cases around the country. If you would like to have your case reviewed by the newly-appointed joint ARRL/NCTA committee for CATVI, please request a reporting form from the CATVI Desk, ARRL, 225 Main Street, Newington, CT 06111.

NEWSPAPERS NEWSPAPERS NEWSPAPERS\*\*\*\*

You Club members have been doing an OUTSTANDING JOB ON YOUR CONTRIBUTIONS to the newspaper collection. Lew WA7ELI tells me that he got about \$20.00 for the load he sold after the December 17th meeting. The price of used newspaper is now at \$45.00 a ton with a \$3.00 bonus if you bring in over 500 pounds. That makes it \$48.00 a ton. I think I have over 500 pounds in my garage now. I have two or three people contributing to my cause, so that helps. How about you getting your friends to give you their newspaper and bring the paper with you to the January Club Meeting. The Ladies Prize Fund should be near \$300.00 now, of course it took us two years to get that much. I'll be there with my pickup, you be there with the paper. 73 Ray WA7EKH

Notice that one of our Club members is listed in W5LFL's log of stations worked on the last space venture. May be more show up later. Congratulations to JIM CHRISTIANSEN, K7ND.



84

Happy  
New Year!

84

#### STUFFED MUSHROOMS

(Make about 30 min. before serving)

- 1/2 lb. Large Mushrooms
- 1/2 c. Butter
- 1/2 c. Minced Onion
- 2 Minced Cloves (garlic)
- 2 Tlbs. Chopped Parsley
- 3/4 Teas. Salt
- 1/4 Teas. Oregano
- 1/2 c. Dried Bread Crumbs
- 1/4 c. Parmesan Cheese

Remove stems from mushrooms and finely chop. Reserve caps. Saute' in butter stems, onion, and add parsley, salt, garlic, and oregano. Then add bread crumbs and cheese. Spoon mixture into caps. Broil 8 minutes.

#### MOLDED BRIDGE SALAD

- 2 c. Boiling Water
- 2 pk. Lemon Jello
- 1 pint Whipping Cream
- 1 3oz. pk. Phil. Cream Cheese
- 1 c. Chopped Celery
- 1 c. Stuffed Olives (chopped)

Make jello. Cool to a jell. Fold in whipping cream. Mix in softened cream cheese. Fold in celery and olives. Put in 9x13 pan. TOPPING- 2 c. whipping cream, 2/3 c. mayonnaise, 1 can small shrimp (drained), 1 c. pimento, 1 teas. minced onion and a dash of lemon juice

#### SPARERIBS WITH BEER & HONEY

- 2 pk. SpareRibs, cut in serving sized pieces
- 2 c. Beer
- 2 Tlbs. Lemon Juice
- 3/4 c. Honey
- 1 teasp. Dry Mustard
- 2 teasp. Salt

Marinate the Ribs in a mixture of all above for 24 hrs. in the refrigerator, basting and turning a few times. Drain, reserve the marinade. Arrange the Ribs in a single layer in a shallow pan. Bake in a 350 oven for 1 1/2 hours, basting frequently with the marinade. Serves 6-8.



A while back, George, N7BT, was browsing through a copy of "Stories", when he came across this story, which he thought might be of interest to all.

Some years ago, in a Federal courtroom in New York, a sardonic district attorney presented to a jury a glass gadget which looked something like a small electric light bulb. With masterly scorn he accused the defendant of claiming that by use of this "worthless" device, the human voice would someday be transmitted across the Atlantic. He said that gullible investors had been persuaded by such preposterous claims to buy stock in a company and urged prison terms for the defendant and his partners. Two of the associates were convicted, but the inventor got off with a severe lecture from the judge.

The defendant in this case was Lee de Forest; the "worthless" glass bulb was the audion (triode) tube, greatest single invention of the 20th century and the foundation of today's four billion electronics industry. (from a 1955 publication) -- Harland Manchester, "His Gadget the World" (Argosy)---

From: Computers & Electronics

Microperipherals Corp of 2565 152nd Avenue, NE, Redmond, Wa. 98052 has just introduced a receiver only modem to take data from commercial radio stations at up to 4800 baud. Plug it into the earphone jack of your radio receiver and your computer serial port, and tune in the station. Right now only radio station KMPS, Seattle is transmitting personal computer software programs.

Sanyo (Japan) has announced the development of a two-layer Intergrated Circuit chip. I'M not certain just what this means. The announcement made no further details. However, it seems that such a development will make more circuits available on the IC chips of the future. Perhaps they will be thicker. Anyway, we will have to await further information on this one.

General Electric scientists have announced an improved process for the manufacture of "amorphous metal". Presently this metal is used in video and tape recorder heads. The new process involves the cooling of an iron based alloy from 2300°F. to 60°F in 0.001 seconds (one milli-second). This "amorphous metal" is to be used in future audio and power transformers which will make them smaller and lighter as they are about 70% more efficient. In the future we can expect a big reduction in the weight and physical size of transformers. The article did not specify just when the new transformers would become available. George, N7BT.

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M & K CLUB EQUIPMENT INVENTORY

The time has come for a much needed detailed inventory of all our Club possessions. The Audit Committee will be meeting and they have taken the task and will report at the March meeting. If you have any Club property, call or drop a line to any of the Trustees, as they are the Audit Committee.

Little JOHN wants your Goodies!!!!

WA7HQG, John, will be handling the Country Store at the Flea Market. He would like anything you can spare in the way of currently usable saleables. The junk of yesterday doesnt sell anymore and he needs more current type of parts & pieces. The old boat anchors end up in the dump, as we have seen the last two Flea Markets.

ROSTER CORRECTIONS

We will be circulating a copy of the roster at the Club meeting on the 21st. Please check it to see if our information on you is correct. If it isn't please make notations on the roster so we can correct it - remember if you want it right you have to let us know about our mistakes. M & K

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\*\*\*The Radio Stores would like your business - buy local\*\*\*\*

Due to reductions in the resources allocated by the FCC to the Operator Examinations, a major change in the Radio Operator Examination schedule will be effective January 1, 1984.

Beginning January 1, 1984, all examinations will be given by appointment only. The schedule and instructions are listed below.

City, State, and Date

Deadline for filing Applications

HELENA, Montana

April 9,10,11,12, and 13, 1984 - - - - - March 15, 1984

SEATTLE, Washington

February 6,7,8,9, and 10, 1984 - - - - - January 15, 1984

May 7,8,9,10, and 11, 1984 - - - - - April 15, 1984

August 6,7,8,9, and 10, 1984 - - - - - July 15, 1984

November 5,6,7,8, and 9, 1984 - - - - - October 15, 1984

SPOKANE, Washington

June 4,5,6,7, and 8, 1984 - - - - - May 15, 1984

December 3,4,5,6, and 7, 1984 - - - - - November 15, 1984

INSTRUCTIONS

Applicants planning to appear for one of the examinations listed above should file an application with the Seattle office no later than the deadline listed above. Applicants for Amateur licenses should use Form 610 and 763; applicants for commercial licenses should use form 756. All valid licenses held must accompany all applications. Applicants for amateur licenses may submit a photocopy in lieu of the license.

An admittance notice indicating date, time and place of examination will be mailed to each applicant approximately one week prior to the event.

Address all inquiries and requests for forms to the Seattle Office. The FCC does not maintain offices at Helena or Spokane.

THIS SCHEDULE IS SUBJECT TO CHANGE

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HAM DEMO - WHAT HAPPENED?

Well, the planned amateur radio demonstration that was to have been in December didn't come off. The original site, the Pacific Science Center, could not find space for our station. The President's group then pursued the location of Sea-Tac Airport at the entrance to concourses C & D. There was a meeting at the airport where we looked at the site and made plans for the last week of Dec. The Saturday that the station was to be set up brought a surprise, we weren't to be allowed by the concourses, but upstairs in the USO rooms, away from the public. Consequently, Wayne, K6DOW and myself cancelled the event. We are hopeful that we can arrange something in the near future and wish to thank all of you that had volunteered to help that week. Deborah N7AVO.

VEC PROPOSALS - N7AVO

I wish to apologize to the people that volunteered to help me come up with a VEC plan. Those that volunteered were George, Larry, Hal, Jim, Tony and Royce. With the holidays and activities afterwards I ended up with no time to call everyone to get a meeting together. Sorry, but I want to keep these names for a future group to get some more ideas going on how you want future license exams to be handled. Deb.

\*\*\*Your local Amateur Radio Store would like your support\*\*\*

CLUB ACTIVITIES

- 21 Jan 84 1000 Monthly Club Meeting at the UGN Center in Renton D de Jong
- 1 Feb 84 1830 Pre-amp and Pot-luck dinner at Forest Ridge School in Bellevue (same place as Christmas Party) Talk in on 147.58 and 147.08 G. Jacobson and H. Goodall
- 8 Feb 84 1900 Monthly Board Meeting at 21112 NE 60th Place, Redmond. Talk in on 146.58 and 147.08. D & J Becker
- 10 March 0900-1900 FLEA MARKET at Puyallup Fair Grounds H. Goodall
- 10 March After the Flea Market there will be a recovery dinner for all of the M & K members that care to attend, more later.
- 7 April 1830 M & K Annual Awards Banquet P Sutton
- June Pre Field Day work party
- 29 June Field Day at Marrowstone Island.
- 30 Aug Activity Night at Blake Island (we hope)

George Boross has been appointed to head up the nomination committee. George will select other club members to assist on the committee. Election will be held in March. Your cooperation in regards to this essential committee is encouraged.

Look for action by other committees between now and May. These essential commitments are spelled out by our constitution and by-laws that have to be complied with each year if we are to be a chartered organization.

Our annual Awards Banquet on April 7th will be held at the Latitude 47 Restaurant. The rooms are private and have a wrap around open deck that overlooks Lake Union. The bar is located in the banquet room.

We have chosen 2 different items from the menu. Please indicate on the form what you and your Lady or Friends choice are, and how many of each.

Prime Rib is known by all, so no explanation. Christopher Columbus is a grilled boneless breast of chicken, topped with crab, shrimp, fresh mushrooms and sauce mornay. The dinners include salad, vegetable, potato, dessert, beverage, rolls and butter. Price includes tax and gratuities. Moorage space is available with a reservation made in advance.

← CUT HERE →

MAIL TO: PATTI SUTTON, 3516 SW 343, Federal Way, Wa. 98023. To be received by PATTI not later than 4 April 1984.

Please make reservations for \_\_\_\_\_ persons; Menu selection; Prime Rib \_\_\_\_\_  
 Banquet price is \$8.25 each. Christopher Columbus

Name:(print) \_\_\_\_\_

(signed) \_\_\_\_\_

Address \_\_\_\_\_

The Postal Department says that we can mail 6 pages for 20¢. If we go over 6 pages the next postal price is 37¢, so-- due to this restriction I will at times split an article between two issues of the Relay due to the length of the article and space available in the Relay.

The following article from JIM,KA7APJ and GIB,W7JIE will be in two parts.

KING COUNTY AMATEUR RADIO CLUBS PRESIDENTS BOARD. (NOTES & INFORMATION).  
2 JAN 1984.

SOME QUESTIONS HAVE BEEN ASKED ABOUT THE DUTIES, JOBS, MISSION, OR WHATEVER OF THE BOARD. I DON'T KNOW THAT I HAVE THE ANSWERS EITHER, BUT I'M WILLING TO PUT SOME MATERIAL DOWN ON PAPER. I FOUND OUT YEARS AGO IN THE PENTAGON THAT UNTIL IT WAS DOWN ON PAPER, EVERYONE WAS MUTE. IMMEDIATELY IT WAS WRITTEN, MANY FOLKS HAD ALL KINDS OF IDEAS. GOOD! LET'S HEAR THEM OUT LOUD AT THE NEXT BOARD MEETING-- 12 JAN 1984, BOB MURRAY'S DOG HOUSE, NEAR 7TH AND DENNY WAY, 6 PM. BRING YOUR APPETITE, A FEW BUCKS FOR CHOW, YOUR WARM BODY AND THE INPUT TO THIS GOING ORGANIZATION. "W7 ROOM" HAS BEEN RESERVED.

FIRST--SOME WORDS ABOUT THE "BOARD". IT IS A COLLECTION OF ALL PRESIDENTS OR TRUSTEES OF ALL KNOWN HAM CLUBS IN KING COUNTY. IF YOU KNOW OF ONE THAT HAS BEEN LEFT OUT, LET ME KNOW & I'LL GET IN TOUCH. ARRL AFFILIATE OR NOT.

SECOND--THE PURPOSE OF THE BOARD IS TO GET ALL HAM CLUBS IN KING COUNTY TOGETHER TO WORK FOR A COMMON PURPOSE AND THE GOOD OF HAM RADIO. ACTUALLY WHEN YOU LOOK AT IT, ALL THE CLUBS ARE FOR THAT PURPOSE ULTIMATELY, SOME JUST HAVE DIFFERENT APPROACHES TO THE PROBLEM.

THIRD--CLUB PRESIDENTS ARE THE "ORGANIZATION". NO POLITICS, NO AXES TO GRIND, JUST A COMMON PURPOSE USING THOSE WHO HAVE THE MOST RESPONSIBILITY IN HAM RADIO IN OUR COMMUNITY. CLUB PRESIDENTS HAVE THE BACKING OF A BIG ORGANIZATION TO CALL ON FOR HELP. I WOULD NOT THINK EACH PRESIDENT, OR TRUSTEE, WOULD HAVE THE TIME TO DO THE VARIOUS JOBS--EACH OF YOU MUST DELEGATE SOME OF THE CLUB BUSINESS. THAT'S THE WAY IT IS WITH THIS KING COUNTY BOARD--FIND A NEED AND FILL IT WITH ONE OF YOUR CLUB MEMBERS.

TO EDITORIALIZE FOR A BIT--THE WAY THE BOARD OUGHT TO WORK IS BY JOINTLY DECIDING METHODS OF ACHIEVING COMMON AMATEUR GOALS. THEN FIND THE FOLKS WHO NOT ONLY CAN DO THE JOB, BUT ALSO WANT TO DO IT. GET THESE PEOPLE TOGETHER FROM THE VARIOUS CLUBS, MONITOR THEIR EFFORTS, AND PAT THEM ON THE BACK WHEN THE BOAT IS LAUNCHED AND SAILING. SEVERAL ACTIONS COULD BE GOING ON AT THE SAME TIME. EACH UNDER THE MONITOR OF THE "BOARD" INDIVIDUALLY AND AS A GROUP. OUT OF THE 16 KNOWN RADIO CLUBS WE CERTAINLY HAVE MORE THAN 500 INDIVIDUALS WHO COULD OFFER SOMETHING FOR AMATEUR RADIO. THE PROBLEM IS TO FIND THEM AND GET THEM ACTIVATED. THAT'S WHAT THE PRESIDENT'S "BOARD" COULD ESTABLISH AS THE PRIMARY GOAL FOR EACH MEMBER OF THE BOARD.

WHAT ARE SOME OF THE PROBLEMS, ACTIONS, MISSIONS, "NEEDS", OR GOALS FOR THE "BOARD" IN KING COUNTY? TO SAY IT AGAIN WON'T HURT! AND MAYBE SOME OF YOU ON THE MAILING LIST HAVE NOT BEEN AT ANY OF THE PAST "BOARD" MEETINGS. HERE TIS:

(to be continued in February)