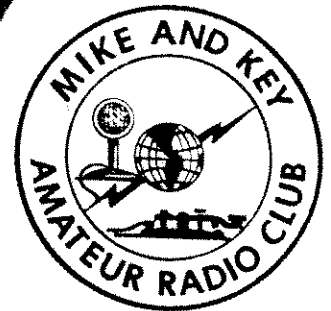


K7LED RELAY



The K7LED RELAY is the Official publication of the MIKE and KEY AMATEUR RADIO CLUB, P.O. Box 2121, Kirkland, Wa. 98083-2121. The Club meets the third Saturday of each month at 9:30am in "The Good Neighbor Center", 305 S 43rd St. Renton, Wa. All "Hams" invited. The MIKE and KEY net meets each Monday evening at 1930 hrs on 224.12MHz. Your check-in is welcome.

AN ARRL AFFILIATED CLUB LOCATED NEAR SEATTLE, WASHINGTON.

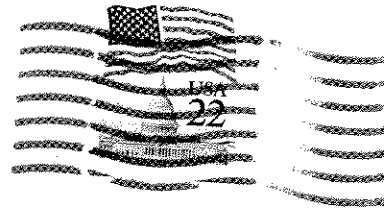
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19415 SE 21st
Issaquah, Wa. 98027
Phone 392-5303



REPEATER FREQUENCY
52.05 - 53.05
146.22 - 146.82
224.12

First Class

BOARD MEETING

FIRST TUESDAY
OF EACH MONTH

CLUB MEETS:

17 OCTOBER 1987

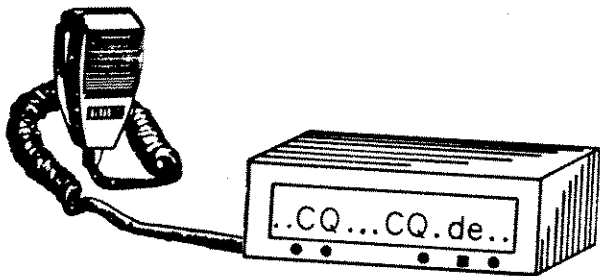
UGN CENTER
RENTON 10:00

BREAKFAST

BOB'S BIG BOY
RENTON--8:00AM
3RD SATURDAY

HEDBERG, PETE K7WTG
20904 NE 77TH ST
REDMOND
WA 98053

COFFEE AND DONUTS WILL BE READY AT 9:30



FROM THE PREZ.....

On the third of October, the 1988 Field Day Committee, consisting of KB7ZS, WA7EBH and NU7Z, went to Marrowstone Island (Fort Flagler) to confer with the park manager and the ranger to make arrangements for the 1988 Field Day effort.

I am very happy to report that the meetings were a total and complete success. We have arranged to have sleeping facilities for those who don't camp, reserved the wagon wheel for the RV's and arrangements for on-site parking during the contest itself.

Things are changing and I really believe that all of these changes are for the best of our efforts at Fort Flagler. This means that you better be at the next club meeting to find out the details of what went on. If you are planning to go this year, we are asking for reservations starting with this meeting and continuing until December when all reservation forms will be sent to the park as a package. If you need sleeping facilities then you need to sign up at the meeting, too!!

PUT IT ON YOUR CALENDAR--IT'S IMPORTANT!!!

A work party signup sheet will be circulated for those who are able to take a day and go to help the ranger. This event will take place this winter sometime. So for the next two months we will ask for people to help out in this area. Please help if you can!!! This is a very important activity to further operations of the Mike & Key Field Day efforts.

* * UP AND COMING EVENTS * *
* * YOUR ATTENTION, PLEASE * *

The Christmas Party needs your help--If you can be the chairman, we would really appreciate it as this activity needs to kick off real soon.

The Flea Market needs all the members that can take part to get on the list that will be circulated at this next meeting. Sign up NOW so we all can get the jobs assigned.

I need four people for helpers in the Country Store---if you can help I would like to hear from you.

Elections are coming!!!!!! Are you ready to vote for your candidate??? If not, now is the time to get them ready for the ballot in the early part of 1988. So----Get a goin!!!! Times a wastin!!!!

One more thing I would like to mention is that our annual Awards Banquet is coming in the spring and needs to get a chairman soon!! If you or a group wants to take on this project let the board know.

73's de Rick -- NU7Z

FLEA MARKET

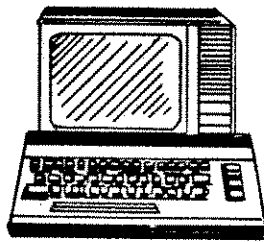
September 29th, at Mike's (WB7AYU) the flea market started again. Present were....

Joyce and Chuck Stroehrer, Rick (NU7Z), Bob (K6PQJ), Hal (N7NW) and myself. From this small beginning will eventually emerge the first Ham event of the year, the Mike & Key Flea Market.

March 12th is the date. Circle it, reserve it, dedicate yourselves to it. This is where the money comes for the repeater, for Field Day, and for those picnics and parties. This is the life blood of the club.

Various committees need your participation. A list of jobs will be sent around in the coming months, signup early. Your turnout is paramount to the success of this event. Be forewarned, you are expected!

Mike - WA7UWJ



MINUTES
GENERAL MEETING 9-19-87

FROM THE EDITOR

- * Called to order 10:00
- * WA7LNQ is collecting newspapers
- * W7TWU showed video of visit to Dayton Ham Fair and of the M-K picnic
- * ATV repeater is up and running
- * New members: WB0SNK, KB7BHW, KA7YDG, KS7F
- * We will visit the Issaquah Club on 10-1 and the Olympia Club 10-28
- * Christmas Party needs a chairman or no party - Date is 12-15-87. No Volunteer!
- * N7NW is setting up several sub-committees for our Ham Fair. There will be a planning meeting at WB7AYU QTH on 9-29 at 7:00 PM.
- * NU7Z asked for net controllers on 220
- * NU7Z asked for activity chairman for all Club activities--the same ones are not going to do it all!! We have a very active Club and the members must take an active part--OR--activity will not take place!
- * N7NW is taking orders for jackets.
- * WA7EKH is taking orders for QSL cards
- * NU7Z and KB7ZS are going on a campout to Marrowstone Island on 10-3, anyone wishing to join them is welcome
- * BE SURE YOUR DUES ARE PAID ON TIME!
- * N7AMX (dues lapse) was reinstated by vote of members
- * WA7EBH--Field Day--The Ranger is being cooperative. Rules for our behavior are being developed and will be coordinated with the Ranger. THE BURDEN IS ON US FOLKS! Field Day Committee KB7ZS, NU7Z, WA7EBH, K7YR
- * Bunnie Hunt was cancelled after the meeting due to lack of participation
- New applications for membership: WA7UJR, K7YZZ, KB7AFS, N7J0Z, WA1SEY, A17V
- * 53 in attendance; 11 visitors
- * Adjourned 11:40 AM de WB7TBR

You haven't heard from me for a couple of months, so thought I'd put in a few words this time. As you can tell there are not as many pages in the newsletter due to lack of articles submitted. Any of you can submit articles at any time on any subject you wish. Send them to me any way you are able, I'll type them up. Handwritten is just fine.

If you do have a computer and want to submit them ready to "cut & paste", I prefer them in 35-letter-wide columns and make the print fairly dark. This will save me time putting the newsletter together for printing. The pages need to be approximately the same shade of print to make it easier for Vern W7ZLW to adjust the print when printing these for us. Does that make sense?? Just give me a call if you have any questions.

This is a fun venture and is fairly easy to do, but I need your input.

Also, if you run across something in any of your publications that you think is of interest to others, send them to me. However, be sure to edit the long ones as I'm not too sharp on this radio stuff, yet.

My thanks to all of you who have been furnishing me with articles, columns, etc. I really appreciate the help and you certainly make this job much easier. My only problem is mastering this doggone computer. This issue has been more difficult because Chuck has been in Ohio all week, so I haven't had anyone to get me out of a jam. Oh well!! Better luck next month.

Sorry that I won't be at the next meeting, but duty calls at the old hospital, so see you in November.

Joyce N7JPW

*** COMMITTEES ***

The following are the active club committees and the contact for that committee.

REPEATERS -- Contact K7YR -- The repeater continues to operate under reduced power due to high SWR with the temporary antenna. -- The 6 and 220 repeaters are continuing to operate with out problems.

HAM CLASSES -- Contact WA7UVJ -- The Novice class started on Sept. 24th. If you would like to help or come down and observe please contact Mike WA7UVJ. Speaking from last years experience, it's a lot of fun introducing new people into Ham radio. -- A Tech/General class will be offered starting in January. The classed will be held at Highline Communittee College on Thursday at 7:00 pm. We would like to see more club members invloved.

NETS -- Contact K7YR is you can help out as net control. The net meets at 7:30 pm on monday nites on the 224.12 repeater. KA7CSE, Mike has been doing a excellent job as net control. The linking of the 2 meter repeater for net nites continues in work and is nearing completion. Ray, WA7EKH, is working on the electronics and will be testing it soon..

FRIENDSHIP AWARD -- Contact K7KOT -- Contact 10 or more club members (no more than 5 on a repeater) and submit list to K7KOT for the certificate. -- How many members have you worked??

FLEAMARKET 1988 -- N7NW, Hal -- Preparations are in work for the next fleamarket. A fleamarket meeting was held 9/29 at which several committees were setup. We still need a few committee leaders. Contact Hal for more information.

SCOUTING -- Contact WB7TBR -- Vic is still exploring contacts with the scouts but isn't getting any response. He is still looking into this.

K7LED OPERATING ACTIVITY -- The club call is available to members who wish to use it to publicize the club. -- Who would like to come out to Fox Island this fall and operate the ARRL sweepstakes? I would like to use K7LED and invite members out who can't participate from their home QTH. Contact, Hal, N7NW is you are interested. -- Contact the Radio Officer, K7YR, if you would like to use the club call.

CLUB JACKETS -- Contact N7NW -- Orders will be placed about every three months if at least 11 are ordered. The jackets may be silver or white with the logo on the back. You may provide your own jacket if you prefer. The jackets cost \$25.00 and the T-shirts \$7.00. --I have placed an order , however I won't be at the October meeting so the jackets may be picked up at the November meeting. I will contact those who have ordered when the jackets come in to possibly arrange an earlier pickup.

PUBLIC SERVICE -- Contact K6DOW/WA7EBH --

ARES -- Contact N7HKL -- Ted, N7HKL, holds the ARES net on thursday at 7:30 pm on the 146.82 club repeater.-- Please checkin to see whats happening.

ATV -- Contact W7SRZ -- Contact Chuck if you are interested in ATV.

PACKET RADIO -- Contact KD7NM -- This digital mode of communication is becoming very popular. Digital repeaters, called digipeaters, are available on the 2 and 1 1/4 meter and 70 cm bands. An organization for promoting Packet Radio meets monthly. Contact Bob, KD7NM, for infomation.

TVI/RFI ---- Contact K7PHZ for the south end, Contact K7YR for the East side and NU7Z for the North end for information and help. See roster for phone numbers.

*** WELCOME ABOARD ***

At the September meeting the following were voted into the club.

7YDG, Kimberly (Kim) Jennison who is a novice and works for Safeway. Kim lives in Orting and can be found on 220.

KB7BHW, Gary Crowell, is a novice who lives in Auburn. Gary works for Weyerhaeuser and enjoys sailing.

KS7F, Wayne Smith, is an extra class ham who also holds a general radiotelephone license. Wayne works for Boeing and lives in Renton.

WBOSNK, Ron Evans, is a general class ham who works for Boeing. Ron lives in Kent.

On behalf of the club we wish to welcome the above new members and hope they enjoy and participate in the club activities.

Also at the August meeting were the following visitors:

WA7UJR, Al Hewson

WA7FUS, Peter Dahl

N7JOZ, Mathew Wesson

Scott Fielding

AI7V, Dick Davis

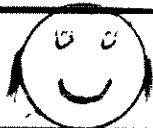
W7MXV, Roy Buell

Charles Johnson

K7YZZ, Louis Hutton

KB7AFS, Prahlad K.N. Ayengar

WA1SEY, Mark Allyn



CHRISTMAS ??

I don't mean to rush the season, however, it isn't too early to begin thinking about the annual Mike and Key Christmas Party December 5th.

The party will be held, probably for the last time, at Forest Ridge School near Factoria. We need people to help with decorations, setup, food, and entertainment. The more people helping, the easier it goes. Give it some thought, then get involved. It's your party. Mike - WA7UUJ

CONTEST TIME

November is ARRL Sweepstakes time. Hal, N7NW, has graciously donated the use of his house and station for both the CW and Phone weekends. (Hope you know what your in for Hal!)

If you've never done the SS, you are missing some 'primo' contesting. This is where the big guns go hunting. If you can't make it to Hal's you can still contribute by operating from home and submitting your points to a club total. However, the fun is in the group effort.

On line will be a 120 foot tower with 20 meter beam, bobtail curtains for the lower bands, and maybe a 40 meter beam. (If things get slow, there is a dog that chases sticks too) I've made my reservations for the CW weekend.

CW weekend is Nov. 7-8

Phone weekend is Nov. 21-22

If you are interested, contact Hal, N7NW.

CQ SS de K7LED.....

Mike - WA7UUJ

RADIO CLUB OF ISSAQUAH

October 1 was the date of the visit to the Radio Club of Issaquah. This coincided with their semi-annual auction.

While a relatively small group they seemed close knit, organized, and a fun group. From the Mike & Key were Mary, W7QGP and myself. For the program we watched a video of the new "World of Amateur Radio" and listened to the plans for the Salmon Days activities.

Following a break, the auction started. Various tubes, equipment, and books were on the line. I got a book I've wanted, but only after a fierce battle. A lighter wallet was the result but it was all for a good cause.

If you are interested in the guys out in Issaquah, they meet on the first Thursday of the month at the Community Hall, (next to the Fire Station) north of City Hall. Doors open at 7 PM and the proceedings start at 7:30. Mike - WA7UUJ

*** PACKET INFO ***

Each month this column will include some, hopefully, interesting information on packet. Several of our club members can be found on 145.05 Mhz. We usually leave the TNC's on with a buffer set up to receive messages. The following information regarding 6 mtr usage was transmitted to me via packet., Hal, N7NW.

6M PACKET RADIO

The 50 MHz band may provide the key to improving Packet Radio data flow in many parts of the country. It is the only band below 220 MHz on which we can legally run a 9600 baud rate using readily available FM equipment. Many state and municipal agencies as well as commercial companies are switching from LO-band (30-50 MHz) to higher UHF frequencies. As this occurs even more equipment will be available to Amateurs at reasonable prices.

In addition to terrestrial linking possibilities, the 6M band also holds great promise for use of the never ending stream of random meteors. At this frequency Meteor Scatter (M/S) along with a Packet Radio protocol taylorred to the short duration meteor bursts hold open the promise of 24 hour mail forwarding on paths of 500-1100 miles.

AZ LINKS

Over the past 9 months A number of individuals have been working to produce a high speed 6 Meter packet network in the southwestern states. The frequency chosen was 51.120 MHz. Through his hard work (and his hardware) Joe, WB7BNI was the first to get permanent installations going. He has constructed links presently running at 4800 baud. A pair of Motorola Mitreks, of fairly recent vintage were used and ran fine at at 9600 baud on the bench. However over the 180 mile path from

central to eastern Arizona the copy was only about 50%, possibly caused by phase distortion. Reducing the baud rate to 4800 resulted in much better copy.
CA & NV

In southern California WB6WEY reports that a number of Motorola Mocom-70's were available so tests were made using these units on 6M. These older, less expensive radios proved to be very marginal at 9600 baud (the discriminator apparently doesn't have enough bandwidth). So the decision was made to get a "moderate-speed" 4800 baud (as opposed to high-speed) backbone running as soon as possible.

HARDWARE MODS

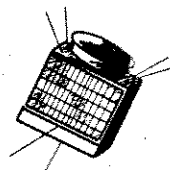
The mods to a TNC to shift the HDLC port down to 4800 from 9600 consist of an etch-cut and a haywire. The K9NG modems will run as is, though the low-pass filters should probably be tuned down to the proper frequency. Joe (WB7BNI) had no problems with shifting his two Mitrek radios down to 4800, and in fact accomplished the shift in one short visit to his site on Mt. Union.

4800 BAUD 6M BACKBONE

Presently there are 6M links from the NET/ROM node at Green's Peak in eastern Arizona to the one on Mt. Union near Prescott, AZ. From that site there are also a 6M link to the node at the Valley Center building in Phoenix. Plans call for expansion of the 4800 baud network to Nevada and into Southern California. Work is being done to install 6 Meter NET/ROM nodes at the K7WS site in NV as well as at the AA6TN-6 (Big Bear), W6AMT-15 (Santa Ana) and WA6ZSN-6 (Ventura) sites in CA.

Thanks to WB7BNI @ WB7BNI and WB6WEY @ N6LUC for the above information.

73, Rich - KIHTV @ W3IWI





ARRL URGES TOUGHER CABLE TV TERMINAL STANDARDS

AMSAT - PHASE 3C LAUNCH

AMSAT is preparing to kick off its Phase 3C launch campaign with 6 months to go until launch. The new satellite will have four transponders.

The AMSAT Phase 3C satellite is scheduled to ride on the Ariane V-22 rocket now scheduled to be launched in February, 1988.

One of the projects in the campaign is the Phase 3C Insurance Project. AMSAT will be purchasing launch insurance to protect its investment in the satellite. AMSAT members and others will be invited to participate by making a tax-deductible contributions to the Phase 3C insurance fund. Articles concerning the new satellite will appear in QEX.

AMSAT HQ is looking for volunteers to handle various aspects of the launch campaign program. Contact AMSAT HQ if you are interested at PO Box 27, Washington, D.C. 20044.

TRUCKING COMPANY FINED BY FCC

A Danville, IL, trucking company was fined \$750 by the FCC for the unauthorized use of marine channel 6B.

The trucking company told FCC that the gear was obtained at a hamfest and was installed by company employees. The company was using the marine channel to conduct its day-to-day business communications.

FCC investigators acted after receiving numerous complaints from marine radio users. The company claimed it was not aware that it was breaking the law.

The ARRL has found itself on the same wavelength as the National Cable Television Associations (NCTA) in advocating tougher standards than those recently adopted by the FCC in Docket 85-301. This Docket subjected external cable terminal devices to field strength emissions limits of Part 15 of the Commission's rules, rather than Part 76. The upshot of this change from the amateur viewpoint is that the Part 15 emission limits are more lenient than those of Part 76, thus permitting RF leakage at higher levels than now permitted.

The NCTA filed a petition for reconsideration suggesting an alternative approach. The NCTA proposed that the FCC distinguish between emissions from the "internally generated" sources of radiation (such as local oscillators) and emissions of signals that are introduced into the terminal device (such as external RF signals).

Internally generated cable leakage would be subject to the more strict Part 76 limits, whereas the externally generated signals that ingress into the cable system through cable terminal devices would be subject to Part 15 standards.

Since this view was, in part, the same as the ARRL's, we filed a brief statement in support of the NCTA petition for reconsideration. In our statement we said: "This counterproposal (by the NCTA) is sound from an engineering point of view and promises to minimize instances of interaction between cable systems and amateur stations. It is a far better alternative than that adopted by the Commission thus far."

* * * * QSL CARDS * * * *

\$30.00/500

CONTACT RAY WA7EKH



MILITARY TRAFFIC

Here are a few points to keep in mind for handling traffic to or from an individual in the military.

You will need the name, SSN, Unit, APO number and the city and state of the APO number. Do not include the name of a city in an overseas location.

Keep in mind: traffic to a ship at sea cannot be delivered, only traffic to land-based organizations. If you are delivering a message that has the address in it, try to get a return message. It really helps morale.

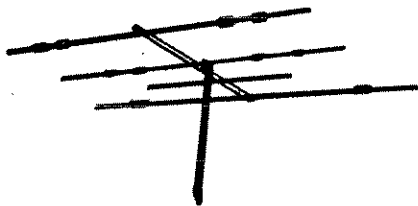
You can pass on the message on any net. There is normally an Army, Navy or Air Force MARS member of most 2-meter and HF nets. Any of the MARS services can handle traffic to any of the other MARS services. Deliver a few of these and you will find you really enjoy it.

PACKET ZIP

July ARRL Field Forum reports that a consensus seems to be developing among NTS traffic handlers in the United States that the most efficient way to route packet traffic automatically to its destination is by the ZIP Code. The proposal still needs much study to determine the most effective way to incorporate it into programs, but it looks like this is the way things will go.

At present, they are looking at using NTSxxx as the routing designator, where xxx represents the first three digits of the ZIP code. Unfortunately this won't help much for Canadian traffic. Maybe someone will come up with a way to handle it, possibly through gateway digipeaters along the border that can be reached by their U.S. ZIP code. Much of Canada's population lives within VHF range of the northern United States.

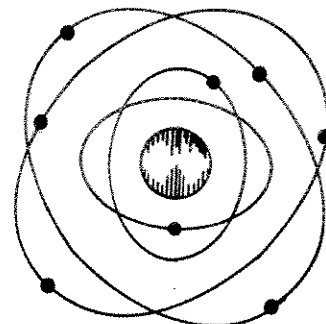
It's all still tentative as this is being written, but look for it to develop rapidly. This is another reason to include the ZIP code in the address when you originate formal traffic.



Due to the underwhelming response for the Issaquah Radio Club visit, the trip to the Olympia Radio Club has been canceled. I could say a lot more but Mama always said "If you don't have anything good to say, don't say anything at all".

----- 'Nuff said?? - WA7UWJ





(p.s.thanks for the support Mary - Mike)



M&K ARC NOVEMBER 1987



S M T W T F S

1 ALL SAINTS DAY	2 M&K UHF NET 1930 HRS /224.12	3 BOARD MEETING 1930 AT QTH OF:	4  TIM, W7QMI, HAS A "WESTLINK" PHONE CALL 634-3636 TO HEAR	5	6	7
8	9 M&K UHF NET 1930 HRS /224.12	10	11  VETERAN'S DAY	12 ELIZABETH CADY STANTON DAY	13	14 SADIE HAWKINS DAY
15	16 M&K UHF NET 1930 HRS /224.12	17	18	19	20	21  CLUB MEETING, COFFEE AT 0930. MEETING STARTS AT 1000 - BRING A FRIEND AND NEWSPAPERS!!
22	23 M&K UHF NET 1930 HRS /224.12	24	25	26  THANKSGIVING	27	28
29	30 M&K UHF NET 1930 HRS /224.12					

WELCOME - NEW CLUB MEMBERS