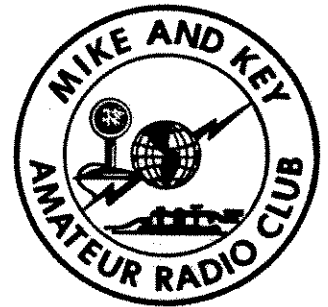
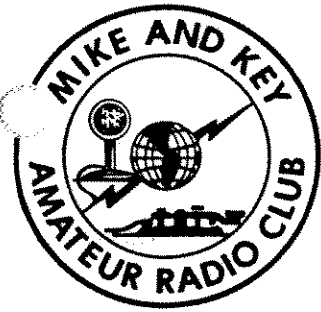


# K7LED RELAY



The K7LED RELAY is the Official Publication of the MIKE and KEY AMATEUR RADIO CLUB, P.O. Box 2121, Kirkland, Wa 98033-2121. The club meets the third Saturday of each month at 9:30 AM in "The Tukwila Community Center", 4101 South 131st. Seattle, Wa. 98168. All "HAMS" invited. The Mike & Key Net meets each Wednesday evening at 1930 hr on 224.12 and 146.82-22 Mhz. The repeaters are linked. Your Check-in is welcome.

AN ARRL AFFILIATED CLUB LOCATED NEAR SEATTLE, WASHINGTON

VOLUME 17

OCTOBER

1989

NUMBER 10

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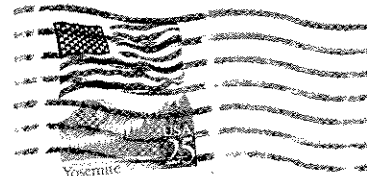
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RELAY DEADLINE 7 NOVEMBER 1989



**REPEATER FREQUENCY**  
52.05 - 53.05  
146.22 - 146.82  
224.12

First Class

**BOARD MEETS**

FIRST TUESDAY  
OF EACH MONTH

CLUB MEETING  
Third Saturday  
of Each Month  
21 OCTOBER 1989

TUKWILA COMMUNITY CENTER  
4101 South 131st  
Seattle, WA 98168  
Phone 243-5198

HEDBERG, PETE  
20904 NE 77TH ST  
REDFORD  
WA

K7WTG

Breakfast 0730  
Riverside Inn, Tukwila

COFFEE AND DONUTS WILL BE READY AT 0930

## THE PRESIDENTS CORNER

As I type this a couple of things are hanging fire. First off I made a deal for a generator trailer and with Board approval will have that on hand by meeting time. It is the best deal, and best trailer, I was able to come up with.

Secondly, we will have completed our annual October field day trek to Fort Flagler. Chuck, WA7EBH, and myself will leave around 7AM Saturday the 7th for a late breakfast prior to the meeting at 11 o'clock. Since we have already received approval of our barracks space we just have to confirm and make our deposit. It seems to be a lot of trouble just to obtain our barracks but that is the way the game is played. Should be no problem and I might even get rid of the job as treasurer of the users group.

Next in my thoughts is the upcoming Christmas Party. As you know we had one proposal for the party and I would expect the Board to pass on it's thoughts. No matter how it comes out you can bet it will be a good time.

The most important thing on the meeting agenda will be the action on the Revised Constitution & By-Laws. Approval of these documents will allow the Club to move forward with an up to date set of guidelines and procedures. I highly recommend approval. See you at the meeting.

73, Jack

## MIKE & KEY ARC GEN. MEMBERSHIP MINUTES SEPTEMBER 16, 1989

The meeting was called to order at 10:00 by Jack, KB7ZS, President.

Guest Speaker, Mark Allen of ICOM was introduced by Al, WV7R. Mr. Allen is the National Service Manager for the company and spoke on service procedures used by them. His talk was well

received and answered many members' service-related questions.

A short Break was taken.

The meeting resumed at 11:15 with welcome and introduction of officers. 65 members and 8 visitors in attendance.

Announcement of the Novice Class was made, beginning Sept. 21 at Highland Community College.

Mike, KA7CSE, announced the first Flea Market Committee meeting to be held on Sept. 20 at his QTH.

Mike, KB7ERE, introduced the new applicants: Walter Beck, N7MCH; Tom Jakubec, N5ZR; Paul Bigler, KB7IME; and Marina Zuetell, N7LSL. All were voted in unanimously by the membership.

Officers' Reports followed. There were no minutes for August as no official meeting was held at the picnic.

Treasurer, WA7EBH, reported a balance of \$8,372.

Constitution rewrite and ByLaws: Chuck explained and called for any questions or comments. A vote for acceptance will be called for at the October meeting.

Repeater: Jack, KB7ZS, reported to the membership of the recent Executive Board discussion regarding repeater usage. More information will be forthcoming.

Outstanding committee reports were given.

General announcements of interest were given by members.

Linda Tillett presented some ideas for the Christmas party activity. It was requested to investigate costs and return information to the Executive Board for consideration.

There being no further business, the meeting was adjourned at 12:05.

Submitted by, Mike, WB7AYU, Secretary

## CONSTITUTION AND BYLAW REVISIONS

Last month we published the revised constitution and bylaws for the club. This month we will be voting on the revisions, to become effective Jan. 1, 1990.

There are a few minor corrections to the document as published last month. In order to cut mailing costs it was decided to only list the minor revisions. Listed below are the line numbers and the reworded text. Please refer to last months Relay:

line 27: 2. FAMILY MEMBER: To include additional members of an ACTIVE MEMBER'S immediate family, ie., Spouse, and dependents under twenty one (21) years of age.

line 58: Following the changed meeting date, the regular monthly meeting reverts to the third Saturday.

line 100: FAMILY MEMBER: When more than one person of an ACTIVE MEMBER'S immediate family desires membership, that person may obtain a Family Membership. Dues shall be one half (1/2) of the regular dues.

## SWEEPSTAKES

November 4-5 is the ARRL Sweepstakes competition. For the past two years, Hal Goodel, N7NW, has graciously donated use of his station equipment and site to the Mike & Key Club effort. This year, Hal has a new operating site with more room than ever.

The contest starts at 1-PM local time on Saturday. Out of the possible 30 hours of operating time, we can only run 24 hours. Normally we go the first 24 without breaks. Of course, everybody is invited to participate whether for 2 hours or the whole contest.

Accommodations are very informal. Bring a sleeping bag to crash in and some snacks and refreshments. I will bring a

hot dish for Saturday evening dinner if somebody else will bring dessert.

Most of all, we need operators and dupers. Your presence is welcome even if you just wanna watch. Remember, this is a Club event, your Club. Support it.

OQ SS OQ SS de K7LED UVJ

P.S. Even if you can't make it to Fox Island, get on the air and give us some contacts. Two years ago, we took 1st place. Let's do it again.

### FOR SALE

Complete Commodore 64 System  
High Resolution Color Monitor  
1541 Disk Drive  
Mannesmann Tally Spirit 80 Printer  
Joy Stick  
Spare Ribbons, Lots of Software  
100% Working Condition  
\$350.00 WB7TBR, Vic, 824-2098

## NOVICE CLASS

Well, we've started again. It doesn't seem like four years since we started this present series of classes but, here we are.

This fall, we have 14 students encompassing a wide range of ages, including two students under 15. Again, we seem to be having problems getting books from the ARRL but this too will pass.

Dick, N7PK, is a new instructor this year and seems to have a easy going style that the students appreciate (even while he's stuffing the code down their throats). Jim, K7ND, and myself round out the teaching staff. Looks like another interesting class of Novices.

If you are interested in seeing the future of Amateur Radio, Stop by at Highland Community College, Thursday evenings from 7-9 PM. UVJ

## FLEA MARKET NEWS

The Northwests largest and most successful electronic flea market is off and running again.

Meeting at Mike's, KA7CSE, chairpersons were volunteered (?) and the various tasks begun anew. It was decided to make a larger effort at convincing major vendors to exhibit this year and the invitations are out. Also open to question is the subject of expansion. That question will be decided at this month's meeting.

The next meeting will be at Mike's house, again, on October 25. The meeting begins at 7:30 PM. Also, now is the time to mark your calendar. Remember, the flea market will be March 10 and we need you there!! UVJ

## BOARD MEETING HIGHLIGHTS OCTOBER 3, 1989

Present: KB7ZS, WA7EBH, KA7CSE, WA7UVJ, KB7ERE, WV7R, WB7AYU, K7PZX, K7YR, N7JPW.

Next Meeting Nov. 7 at Holy Cross Lutheran Church, 7:30PM.

Flea Market meeting Oct. 25 at KA7CSE at 7:30 PM. All members welcome. Need much input and committees.

Constitution and By-Laws changes will be voted on at gen meeting. They have been published and discussed.

Christmas Party: Those in attendance voted to keep this as a potluck at the Eagles. The rest of the Board will be polled for their votes and a recommendation presented to the general membership.

Trailer for generator: KB7ZS has found one that can be purchased for \$500.00. This one has a title and registration. Moved, seconded and passed to purchase the Trailer.

Fort Flagler trip to be on Sat. Oct 7 in order to secure the facilities for Field Day '90. Jack, KB7ZS; and Chuck, WA7EBH will attend.

Coffee making equipment will be returned to Vern, W7ZLW. It is noted that the "kitty" is not covering the cost of the coffee and donuts. It is recommended that members drop in a quarter for each donut.

The collection hat will be passed at the October meeting to purchase AT 150 radio for Brian Sternberg, a quadriplegic who must operate it with his mouth.

First annual Public Awareness Day for Amateur Radio was a success.

October meeting features Rick, NU7Z, for program on Band Planning and Frequency Allocation. November program is a Computer Forum.

ARS will put Flea Market publicity in their flyer coming out soon. They are willing to open up the store for classes to observe and use their equipment, no sales at these times.

Mike, KA7CSE, is applying for Regional HF Awards Manager for ARRL.

Letter of appreciation to be sent to Mark Allen.

Continue Repeater Education.

Report card of Board Meeting Attendance to be forthcoming.

Mike, KA7CSE, and Mike, WA7UVJ, are going to the Soviet Union July 1 on an Amateur Radio Exchange. The Soviets are coming here in April. Mike and Mike are busy studying the Russian Language. N7JPW

## LAMBDA CONVERSION

Formulas listed below are for DC - 30 Mhz conversion only

1 LAMBDA	Free Space	Feet = 984 / fMhz
	In air	Feet = 936 / fMhz
1/2 LAMBDA	Free Space	Feet = 984 / fMhz
	In air	Feet = 936 / fMhz
1/4 LAMBDA	Free Space	Feet = 984 / fMhz
	In air	Feet = 936 / fMhz

Formulas list below are for 50 Mhz and UP conversion only

1 LAMBDA	Inches = 11811 / fMhz
1/2 LAMBDA	Inches = 5905.5 / fMhz
1/4 LAMBDA	Inches = 2952.75 / fMhz

### TERMS

#### LAMBDA - Wavelength -

Term used to describe frequency radiation or electrical length

#### Dipole - Isotropic -

This is the reference for all antennas and has an approximate gain of +2.57Db

#### Dipole - antenna -

This is the standard by which we build our dipoles which have 0Db gain. This antenna is also a reference

#### DB - Decibel -

Term used for the measurement of Gain - or - in other cases power output other than Watts

#### Dbi - Decibels Isotropic

This is the termed measurement used when comparing gain to an isotropic antenna ( dipole )

#### Dbd - Decibels Dipole

This is the measurement for a dipole in AIR. It has no gain associated with it so is termed the ZERO Dbd reference.

DE - NUTZ

Bring with first 4 pages  
Published in August, to  
October Meeting program.

# SwapNet BBS On The Air

By Tom Gilchrist, N7KHU @ W0LVJ

Got some HAM gear you want to sell? Maybe your looking for some parts you just can't do without. Well, a special purpose BBS for buying and selling HAM radio and related items is now in operation to help you out. The N7KHU SwapNet is located in Renton, WA and operates on 224.560. It can be accessed from the YTHNET node.

When you log onto the SwapNet for the first time, the system asks you for your first name and home BBS. (Note: At this time, this information can't be changed by the user. If you change your home BBS (or your name) just send mail to N7KHU @ W0LVJ and I'll change it.) As the system is now written, the home BBS is only for the Sysop's use. I plan to add it to the ads later.

The SwapNet main menu lets you ADD, LIST, SEARCH, and DELETE items. It also has a menu item for HELP and BULLETINS. HELP gives you a general overview of the system, the rules of the board and stuff like that. The BULLETIN menu item lists the current schedule for the board, local items and events of interest, new features, etc. There is also a short message of the day (MOTD) which is listed when you first log in.

## Sample Ad

Item #22 Call: N7XYZ Phone: 206-555-1212 Date: 7/28/89  
For Sale Category: HF Rig - Kenwood TS-440AT  
Mint condition, very few hours, 10m factory mods. \$1220.00 OBO.

If you want to add an item to SwapNet, you are asked your phone number (with area code), if the item is "FOR SALE" or "WANT", and the category it is to be listed in. There are now seven categories:

- HF Rig
- HF Antenna
- VHF/UHF Rig
- VHF/UHF Antenna
- Packet/RTTY/Digital

- Computer
- Misc/Parts

You then are asked for the name or type of item you wish to list. This entry can be up to 40 characters long. Then you enter a description line. This line can be up to 79 characters long and is used to give a description, the condition, information, and the price. *Yes, prices are allowed on this board.* A sample ad is shown below.

The "Kenwood TS440AT" in the sample ad was entered as the name of the item. The last line in the sample was the one line description. The ads are automatically formatted and numbered by the computer. If you sell or buy items you have listed, please check back and delete those items. I purge items over 30 days old.

The last item on the main menu is to disconnect from SwapNet. The software writes the date and time of the last time you used the board. If you disconnect prematurely, this information is not written to disk. This time stamp is used to determine if there are any new listings for you to read when you log into SwapNet the next time. Try to use this menu item (8) when you are done.

That's about all there is to say about using SwapNet. I do reserve the right to delete any items I don't think are appropriate. The FCC rules don't allow commercial ads of any kind. The new rules also state that someone who consistently buys and sells equipment to make a profit is a commercial user whether he has a "store front" or not.

The software being used is by N6TY, John Beaston, in Portland OR. The system runs under MS/DOS and is written in Turbo Pascal. There are now four of these systems up in this part of the country. We are starting to exchange ads between these systems and will soon have weekly exchanges. Anyway, check-in and enjoy. 73, Tom.

1989 **Oct 15 - Nov 25** 1989

**OCTOBER AND NOVEMBER EVENTS**

SUN	MON	TUE	WED	THU	FRI	SAT
Oct 15	Oct 16	Oct 17	Oct 18 7:30pm M&K NET	Oct 19 7:00pm Public Service Net 7:30pm PARS RADIO CLUB	Oct 20	Oct 21 7:30am Breakfast at Riverside 10:00am MIKE AND KEY CLUB MEETING IN TUKWILLA 1:00pm VE EXAMS at Good Neighbors Center
Oct 22	Oct 23	Oct 24	Oct 25 7:30pm M&K NET 7:30pm Flea Market Meeting at KA7CSE-Renton	Oct 26 7:00pm Public Service Net	Oct 27	Oct 28
Oct 29 Daylight Savings--set back 1 hour	Oct 30	Oct 31 Halloween	Nov 1 7:30pm M&K NET	Nov 2 7:00pm Public Service Net	Nov 3	Nov 4
Nov 5	Nov 6	Nov 7 7:30pm Board Meeting **RELAY DEADLINE FOR NEXT ISSUE** Election Day	Nov 8 7:30pm M&K NET	Nov 9 7:00pm Public Service Net	Nov 10	Nov 11 Veterans Day
Nov 12	Nov 13	Nov 14	Nov 15 7:30pm M&K NET	Nov 16 7:00pm Public Service Net 7:30pm PARS RADIO CLUB	Nov 17	Nov 18 7:30am Breakfast at Riverside 10:00am MIKE AND KEY CLUB MEETING IN TUKWILLA 1:00pm VE EXAMS at Good Neighbors Center
Nov 19	Nov 20	Nov 21	Nov 22 7:30pm M&K NET	Nov 23 7:00pm Public Service Net Thanksgiving	Nov 24	Nov 25

FOR ADDITIONS CONTACT EDITOR