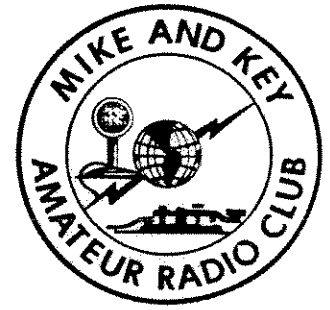
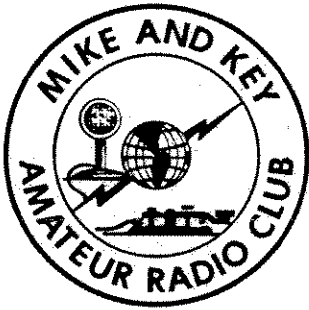


K7LED RELAY



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 18

FEBRUARY

1990

NUMBER 2

PRESIDENT

Jack Burrell, KB7ZS
108 130th PL NE
Bellevue, Wa. 98005
454-2353

TREASURER

Chuck Stroehrer, WA7EBH
19415 SE 21st St.
Issaquah, Wa. 98027
392-5303

TRUSTEE #1

Michael Hansow, KA7CSE
1412 Lk Youngs Way SE
Renton, Wa. 98058
255-7137

TRUSTEE #4

Pat Shinnors, W7VIH
534 N. 78th
Seattle, Wa. 98201
782-6978

VICE PRESIDENT

Mike Cusson, KB7ERE
15918 81st PL NE
Bothell, Wa. 98011
488-2518

ACTIVITY MANAGER

Allan L. Kush, WV7R
10506 NE 133rd PL
Kirkland, Wa. 98034
823-4393

TRUSTEE #2

Ken Jackson, K7PZX
19223 SE Green Valley Rd.
Auburn, Wa. 98002
833-8999

TRUSTEE #5

Ted Boessenroth, NØYC
1912 Edmonds Dr
Renton, Wa. 98055
255-7721

SECRETARY

Michael W. Cross, WB7AYU
5803 SW Hanford
Seattle, Wa. 98116
935-2688

RADIO OFFICER

Ken Rau, K7YR
5430 Lake Alice Rd. SE
Fall City, Wa. 98024
222-7711

TRUSTEE #3

Mary Lewis, W7QGF
10352 Sandpoint Way NE
Seattle, Wa. 98125
523-9117

EDITOR

Joyce Stroehrer, N7JPW
19415 SE 21st St.
Issaquah, Wa. 98027
392-5303

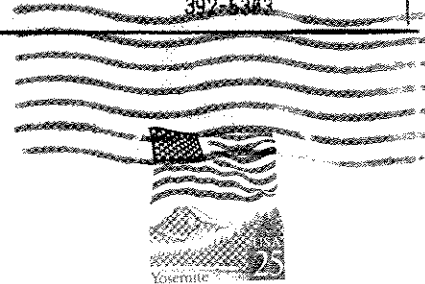
19415 SE 21st St.
Issaquah, Wa. 98027

RELAY DEADLINE

6 MARCH 1990

REPEATER FREQUENCY
52.05 - 53.05
146.22 - 146.82
224.12

Check mailing label for date that your dues expire. Mail renewal to treasurer or pay at next meeting.



First Class

BOARD MEETS

FIRST TUESDAY
OF EACH MONTH

CLUB MEETING
Third Saturday
of Each Month.

24 FEBRUARY 1990

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

K7WTG 91/01
HEDBERG, PETE
20904 NE 77th ST
REDMOND,, WA. 98053

Breakfast 0730
Riverside Inn, Tukwila

COFFEE AND DONUTS WILL BE READY AT 0930

The
Presidents
Corner

MEETING CHANGE TO FEB 24TH

Since the January meeting things continue to move along in rapid fashion. First off I would like to report that the new ICOM 50W 2M repeater has been paid for and is now waiting the opportunity to get up the mountain and on the air. Please remember the change in the meeting and be prepared for an outstanding program on computers and ham radio interfacing. Different views from different folks.

Many of those interested got together at CSE's QTH for another Flea Market planning session. While things seem to be going along quite well it is going to take an all hands (club) effort to make the event a success. Our next years budget depends on the income from this years Flea Market.

Speaking of next year, the budget committee met the end of January. A proposed budget was submitted to the board and adopted. The 1990 budget will be submitted to the Club for approval at the February meeting. At the same time there was a report from the nominating committee indicating an extreme lack of interest in serving the needs of the club. When members have been contacted their comments are "I don't want to be involved". This sounds like the death knoll of an organization like ours. There is no way the Club can function if members do not take an active interest in it's administration. Jump in, the waters fine and it really doesn't take that much time.

Speaking of volunteers, what about the banquet? Time is getting short and we will be needing prize committees, program chairpersons, etc. these things don't just happen.

Well enough of that, Field Day will be on us before you know it so get in contact with Jim, K7ND, and let him know your interests and intentions. **SEE YOU THE 24TH.**

73, Jack

WHAT IS THE ARRL?

Founded by Hiram Percy Maxim in 1914, the ARRL remains dedicated to the advancement of Amateur Radio. ARRL is the largest organization of radio amateurs in the US and serves as the official voice of Amateur Radio in dealings with government agencies. Governed by a board of directors elected every two years by the League membership.

Fighting for amateurs' rights, the League has "come through" for its members in many instances; for example, Novice Enhancement adopted by the FCC in January 1987..

A dedicated headquarters staff strives to keep the amateur community informed on issues pertaining to ham radio. A variety of books about every aspect of Amateur Radio are published annually. Written by hams, QST, the monthly membership journal is furnished to all members.

GRIFFIN HOME

Over the past couple years, we made a commitment to the Griffin Home in Renton. We have donated food, money, and appliances. These items have been greatly appreciated.

I just want to share a letter I received from the Griffin Home today, for the Mike and Key. It's a note of thanks, not only for the Christmas help of last month, but for all the help of the past couple years. Let us not forget our commitment. UJV

Dear Mike & Key Club Members,

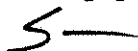
On behalf of the young people served by Friends of Youth, I would like to extend my deepest thanks for your kind gift of food this Christmas season. You can be assured your donation was needed and is appreciated very, very much. You are very loyal to Griffin Home and we feel fortunate to have had your support these last few years.

A group collection such as yours is all the more meaningful to us because so many of you felt us worthy of your time and efforts. Our programs are working

but we are very dependent on the community for help. Your support lets us know you feel a commitment to our kids, and they are encouraged by your caring during this time when they are trying to change their lives for the better.

Again , our thanks. We hope you will consider us next year.

Very truly yours,



J. Howard Finck, President

PACKET RADIO: An Introduction - PART 2 -
by Larry Kenney, WB9LOZ

In the first part of this series we told you, in general terms, what packet radio was all about...what it is, its uses, the equipment used and, generally, how its transmitted. Now we're going to tell you how to get on the air, make a QSO, and become familiar with your packet station. Whether you're new to packet, having just received a new TNC, have been involved for just a short time, or are one of the "old timers" with three or four years of experience, this series should help all of you. Even if you don't yet own a TNC, you should keep this article handy for future use. I'll bet you'll be joining us soon!

The equipment needed to get on the air is a VHF transceiver, a computer or terminal, and a TNC - the terminal node controller - the little black box we talked about in part 1. (There is packet activity on HF, but VHF is where all the action is. It's the best place to start out in packet.) The TNC contains a modem and is equivalent to the modem used to connect your computer to the phone lines, except that it also contains special software that's specially designed for ham radio packet use.

When you buy a TNC and take it out of the box, you'll find cables supplied for connecting it to the radio, but you'll have to attach the appropriate mic and speaker jack connectors for the radio you're going to use. You also have to furnish the cable that connects the TNC

to your computer or terminal. In most cases, the standard RS-232 port is used between the TNC and computer, however this varies on the type of computer and TNC used. The operating manuals supplied with the TNC have a good write up on the various computers and the cabling needed. I would advise that you read the introduction and set up procedures for your particular TNC very carefully. Most companies have supplied excellent manuals, and you usually can figure out all of your set up problems from the information supplied in the manual.

Once you have everything wired and connected together, turn on the computer, load a terminal program (anything used for a phone modem will work well for packet) and get into receive mode. Now turn on the radio and make sure the volume is turned up about a quarter turn (about the "10 o'clock" position) and make sure the squelch is set. It should be at the point where the background noise disappears, just as it would be set for a voice QSO. Next, turn on the TNC. You should get a "greeting" or sign on message showing the manufacturer's name, software version, etc. If you see a bunch of gibberish, such as &#tfd.#ssan>m, it means that the data rate of the TNC and computer are not the same. This data rate is better known as the baud rate. The baud rate of the TNC has to match the baud rate used by your computer terminal program and is easily adjusted. Check you TNC manual for this procedure, as it varies from TNC to TNC. If you don't see a "greeting" or the gibberish, check your cables and connections. Make sure that you have everything connected properly, that the right wires are on the right pins, etc.

Now we need to explain the three levels of communicating you can do from the keyboard. First, you can communicate with your computer for setting up the terminal program; second, you can communicate with the TNC; and third, you can communicate with the radio. It's very important that you know which level you're in when working packet. I can't help you much with the computer level, since that varies with manufacturer, model and type, but once you get the

terminal program ready to receive data, you're ready to talk to the TNC.

First, do a "control C" (press the CNTRL and the letter C simultaneously); this puts the TNC in COMMAND mode, the level where you communicate directly with the TNC from the keyboard. You should see "cmd:" on your screen. Enter "MYCALL - - -" with your callsign in place of the dashed lines, such as "MYCALL WB9LOZ", followed by a carriage return (CR). All commands are followed by a (CR). This sets into the TNC memory the call that you're going to use on the air. If you type "MYCALL" (CR) now, it should respond with your call. If it does, you've proven that the computer to TNC linkup is working fine. If you do not see anything on the screen when you type, blindly enter the following: ECHO ON (CR). If you see two of everything that you type, such as MYYCCAALLL, enter ECHO OFF (CR).

You're now ready to go on the air! Tune the receiver to any odd numbered frequency between 144.91 and 145.09 that has some activity on it and set the rig up for simplex operation. Enter "MONITOR ON" (CR), then watch the screen. You should soon be seeing the packets that are being sent over the air by other stations. If you don't see anything in a minute or two, try tuning to another frequency. Watch for callsigns with a * next to it, such as W6PW-1*, WA6RDH-1*, or WB6SDS-2*. Callsigns with an asterisk indicate that you're copying the packet from that station, as it's being repeated, or digipeated. Jot down the call.

In packet, you can have up to 16 different stations on the air at the same time using the same callsign. That's where the numbers come into play. The calls W6PW, W6PW-1, W6PW-2, W6PW-3, W6PW-4 and W6PW-5 are all individual stations operating under the same station license. The numbers are used to differentiate between the various stations.

Now, before you try to make your first QSO with someone else, you should check out your equipment to make sure it's set up properly. To do that, you can CONNECT to yourself. Note one of the callsigns you jotted down a minute ago.

Make sure your radio is still tuned to the frequency where you heard that call, then enter the following: "C - - - - V - - - -" (CR) where the first dashed lines are YOUR callsign and the second dashed lines are the call of the station you jotted down. The C means CONNECT and the V means VIA. "C WB9LOZ V W6PW-1" means connect to WB9LOZ via W6PW-1. You should soon see "*** CONNECTED TO (your call)" on the screen. You have now entered the third level of communications, called CONVERSE mode, and this is where you communicate from the keyboard to the radio. Anything you type on the keyboard will be transmitted over the air as a packet every time you hit a (CR). If you enter "Test" (CR) you should see "Test" a second time on the screen, as it's transmitted, then digipeated and sent back to you. In this case you'll only be talking to yourself via another station, but it's a good way to check to make sure your system is working properly. If that works, hit a CONTROL C. This puts you back into COMMAND mode where you talk to the TNC again. Enter "D" (CR). This will disconnect you from the other station, and you'll see "DISCONNECTED" on the screen.

Now you're ready to talk to someone else! Watch for a familiar call on the screen while monitoring or note calls you see frequently. Be sure to note whether or not a digipeater is being used by watching for the *. If you see WB9LOZ > WA6DDM, W6PW-1*, for example, you're receiving the packets from W6PW-1. If you do not see an asterisk, you are copying the station direct. When the station you want to contact is finished with his QSO, enter "C - - - -" or "C - - - - V - - - -" (depending on whether or not a digipeater is needed) followed by (CR). You should get a "*** CONNECTED TO ..." on the screen, which means you're in converse mode, and your first QSO with someone else is underway! Anything you type now will be sent to the other station, and anything he types will be sent to you. When you're finished, be sure to do a CONTROL C to get back into command mode, then enter "D" to disconnect from the other station.

You're on the way now to lots of packet fun and adventure!

MINUTES
GENERAL MEMBERSHIP MEETING
JANUARY 20, 1990

The meeting was called to order at 10:00 by Jack, KB7ZS, President. Welcome and Pledge of Allegiance followed. In attendance were 71 members and 6 visitors.

Guest Speaker, Clay Freinwald, K7CR, chairman of the W.W.A.R.A., presented topics and reports of frequency coordination of the area. Clay also reported from the VHF-UHF Repeater Advisory Committee of the ARRL.

Chuck, W7SRZ, explained a new ATV repeater on 932MHZ located at Newport Hills.

It was noted that Rush Drake has resigned as Division Director due to poor health.

During the next business meeting, the Community Center will be in use, so the meeting time or place needs to be changed. This conflict occurs February of each year only. It was moved by Tom, WA7SEH, seconded by John, K7PFR, to change the next business meeting to February 24. Motion carried.

Officers' Reports: Vice President - Visitors in attendance were introduced and some of the members recent activities announced.
Treasurer - Current balance is \$5,491.00. Flea Market reservations are now coming in.
Activity Mgr - Al, WV7R has announced his resignation due to many work commitments. Next month's program will be on Packet Radio. Please check the current roster, printed in the December RELAY, for any errors and report them to Chuck, WA7EBH.

New Business: General announcements were made.
Flea Market - Jim, K7ND, passed around a sign-up sheet for volunteers and explained preliminary requirements needed on Friday afternoon. He discussed the general activities to all members and explained the operation of this year's event. The advertising,

about 4,300 mailings have been released. Ray, WA7EKH, also asked for volunteers and told of some specific details on the Flea Market operations. Mike, WA7UVJ, announced the upcoming committee meeting on January 24 and invited all to attend.

Mike, KB7YB, introduced the new member applicants: John Black, W7HIL; Lee Holten, N7NKQ; and Gary Martek, NR7G. A vote was taken and all were elected to full membership in the club.

Mary, W7QGP, discussed a supplementary proposal regarding SR6160, supplementary Bill 12. The bill is now in committee and regards the DNR's site leasing costs for radio installations. This supplementary bill will reduce the rent fees charged to repeater owners.

Gib, W7JIE, presented the following motion: The Board of Trustees of the Mike and Key Amateur Radio Club is instructed to direct the Finance Planning Committee of said club, to allocate and appropriate Five Hundred Dollars for the express purpose of purchasing four complete sets of A.R.R.L. library books. Said four sets to be donated in the clubs name to the city library of Bellevue, Renton, Kent, and Redmond. This gift to be made not later than 1 June 1990. The motion was seconded by Claire, KB7GEW, and passed by vote. It was noted this action was to "appropriate funds" and would have to go through the budget process.

There being no further business, the meeting was adjourned at 12:00. Submitted by Mike, WB7AYU, Secretary.

ARRL MEMBERSHIP DUES

ARRL membership dues will increase \$5.00 starting April 1, 1990. This is the first dues increase since 1981.

You may pay three years in advance before April 1 at \$25.00/year, after April 1, \$30.00/year. The Mike & Key ARC receives \$5.00 for first time membership and \$2.00 for renewals. Make checks payable to Mike & Key ARC.

Under 17 years of age and seniors did not increase. Family and Blind will increase by \$4.00/year. Mary, W7QGP

DONATION

I would like to thank Mr. John Diebold, Seattle, for donating a NCX-3 transceiver to the Mike & Key ARC Novice Class.

Many times, fledgling radio operators do not wish to buy radio equipment until they actually have a license in hand. With the price of equipment these days, who can blame them?

Loaner equipment, such as this, gives these students a chance to hear the 'real thing' and builds the excitement needed to slug through weeks of code practice.

I also wish to thank Carl, W7FRW, for locating this equipment and checking its operation out. If you have any older type equipment lying about that could be used to bring new hams into the world, please contact me or Jim, K7ND. 73, WA7UVJ.

THE COMMUNICATOR LICENSE

FCC proposes new codeless class of Amateur License

The Commission is proposing to amend its rules by establishing a codeless class of Amateur Operator license to be called the **COMMUNICATOR CLASS**. This class will be incorporated into a simplified licensing structure containing four ascending steps: 1) Communicator; 2) General; 3) Advanced; 4) Extra. Current Technician and Novice Class operator licenses would be grandfathered indefinitely, with no new licenses issued for those classes, but existing licenses could be modified or renewed.

The 'codeless' operator class license would satisfy three major objectives. The first objective is to offer and entry level license for all persons who find telegraphy a barrier to pursuing the purpose of the amateur service. The second objective is to design a codeless license that can easily be implemented into the current licensing process. The third objective is to avoid any negative effect upon current licensees, the volunteer examiners who administer amateur examinations, or the Commission's workload.

The Amateur Service exists for the purpose of self-training, inter-communication and investigations to be carried out by duly authorized persons interested in radio technique solely with a personal aim, and without financial gain. Individuals seeking a license to operate an amateur station must prove that they can send correctly by hand and receive correctly by ear, text in Morse code signals. Although this requirement may be waived for an operator of an Amateur station transmitting on frequencies above 30 Mhz, each of the five classes or operator licenses issued by the Commission requires the applicant to pass an examination in the international Morse code.

The Communicator Class operator license would not require knowledge of Morse code telegraphy messages. Privileges for the Communicator Class license would include all emission types. The Communicator Class license would replace two existing beginner operator classes and would simplify the amateur operator license structure.

The Commission would require applicants for the Communicator Class license to pass a 60 question written examination. The new question pool would be comprised of the questions from the two pools currently used in the Novice and Technician license examinations as well as the addition of new questions.

The proposed transmitter power for the Communicator Class would be 200 watts peak envelope power and the licensee's station would be eligible for a Group D call sign. Stations with Communicator Class control operators would not be permitted to transmit on the 2 and 6 meter VHF bands and the HF bands. The Commission is requesting comments on the effect of excluding Communicator Class licensees from the two VHF bands. Comments are also requested on the desirability of including the opportunity for Communicator Class licensees to experience on-the-air-telegraphy operation on the HF bands. Additionally, a Communicator Class licensee who passes or receives credit for a telegraphy examination would be

authorized the privileges of the Technician Class. FCC Docket 9055

A WORD PUZZLE

Using only "six" letters, and no more than six, fill in the blanks on the following sentence:

The party left me _ _ _ _ _
So I could _ _ _ _ _ plant
The _ _ _ _ _ de W7JIE

Answer next month - GOOD LUCK!!

QUESTIONNAIRE COMMENTS

Like I said, the comments I received on the questionnaire were the best part. I would like to share some of them and I hope you take some to heart. For the most part, I have absolutely no idea who said what, and that's the way I wanna keep it.

What I like about the M&K.....

- the possibilities
- wide spectrum of members
- friendly response to questions
- good programs
- progressive
- friendliness and willing to share technical know-how
- friendly
- active, growing
- Field Day, Awards banquet
- speakers, enthusiasm
- good repeaters
- teaching club
- good mix of people
- RELAY and Repeater
- organization, fellowship
- friends made
- activities
- friends and club interests
- the people
- programs

What I don't like about the M&K...

- too much business in meetings
- too political
- no repeater control
- lack of participation from joiners
- flak about repeater users
- disorganized
- voting on new members, ridiculous
- archaic procedures

- lack of solid training programs
- too much emphasis on Friends of Youth
- Mike Cussons (hihi)
- too large
- don't like meeting site
- too many inner circle people
- not doing enough public service with the money
- too social

Comments and Suggestions.....

- follow the stated purpose in the constitution
- hold brief meetings for inexperienced hams to answer needed questions, give advice
- quit bitching about repeater usage
- put a 'gag' on some repeater users
- am not renewing my membership
- more educational programs
- change balloting procedures
- encourage follow-through of ideas, positions
- listen to membership
- 440 repeater
- more 'how to' on Packet, ATV, experimentation
- more radio, technical, and repair activities
- what happened to 'host' idea?
- more, better programs
- badly need better programs at each meeting

Obviously, we have a wide range of opinions on what to do with the Mike and Key. Maybe over the next year you can help bring about a renewed and vigorous Mike and Key. Certainly, we are a varied group and not everybody is going to be happy all the time. However, I think by working together, we can make it interesting for most. UVJ

**REMEMBER THE
FLEA MARKET ON
MARCH 10 AT 9
AM. YOUR HELP
IS NEEDED.**

SOME WRITING TIPS

By Rick Booth KMLG
from ARRL Field Forum
January 1990

Sure, write the newsletter. Easy for him to say, he's a professional writer. I have trouble writing a grocery list!

Take heart, ye who tackle words! Good writers may be born, but equally good ones can be bred. But it takes time, care and a little technique. Here are some suggestions:

Use a word processor. Nobody's first draft is perfect. Word processing is technology's gift to the writing craft--you can sin in haste, and edit at leisure. That's a good reason to work steadily between issues. Write things ahead of time, put them aside, and return a day or three later. Self-editing will be much sharper. Better still, get help. Know anyone, ham or otherwise, who's good with words? Just remember - you're the editor.

A bird in the hand is worth any number in the bush. Cliche? Yes, and good writers shun cliches. But this one's useful here: don't try to make every sentence perfect the first time. Better to blast the words out, then edit. The Pulitzer prize winner in your brain is worthless, compared to that finished clunker.

Ask yourself: What am I trying to say? As you sit at the keyboard, but before you touch it, summarize in a single short sentence the essence of what you're about to write. If you can't, don't type yet. The idea's not clear enough in your head.

Don't say the club had a booth at the fair. Everybody know that, the club does it every year. What happened this year: "Fifty-four people signed up for the club's coming Novice class..." There's your lead.

Above all, don't sound like a technical treatise - even if you're writing one (especially if you're writing one!) The same person so entertaining over coffee, so bright and alive in speech, can turn wooden on paper. You're doing a newsletter, not a graduate thesis. Come to think of it, why do graduate theses always sound as they do? And technical papers, and legal briefs, and absolutely everything written in government....

Follow this writing adage: that copy improves in direct proportion to what you leave out, that shouldn't be there in the first place. Don't believe it? How about this: "Circuit boards for the club 10 meter project are currently available from KALBB." What's wrong with, "Bob, KALBB, has the circuit boards for our 10 meter project?" Simpler, cleaner. Watch out for creeping clutter, tiny redundancies that ruin.

Avoid passive voice, the disease of technical writing. Use active voice. "Bob and Ted washed the car," is active. "The car was washed by Ted and Bob," is passive. Nobody did anything. Not to drag the swamps of grammar, but see that word "was"? It's a helping verb, a form of the verb "to be." Search your work for bandits like is, was, were, and be. Sure you need them sometimes. Often, you don't. With a little practice, you'll learn how to write around them.

Ponder awhile, and ask yourself: would I speak as I've written? Write like you speak, and go unafraid into the darkest night.

BUDGET COMMITTEE REPORT

In late January we met to discuss the budget requirements of the Club for the coming year. We have come up with the budget listed on the next pages. We hope to have the Club approve the budget in the February meeting. The board has already given their approval of the proposal.

Some of the 1989 expenses for the spreadsheet have been projected based on current expenditures and past years experiences.

Please read it carefully as we plan to limit discussion to only a few minutes during the meeting.

Chuck-WA7EBH

Remember the Club meeting has been changed to February 24 due to a meeting hall conflict.

EXPENSE CATEGORY PEACH 1990 BUDGET ACCT #	:1987 :ACTUAL	:1988 :ACTUAL	: BUDGETED :FOR 1989	: YEAR TO : DATE	:1990 : BUDGET
FIELD DAY					
11 GAS	\$23.00	\$50.38	\$60.00	\$29.06	\$50.00
CAMPING (W.W. & Bks.)	\$86.00	\$374.25	\$0.00	\$190.25	\$200.00
412 TRAILER FEES	\$71.00	\$33.45	\$75.00	\$5.53	\$75.00
414 TOW VEHICLE	\$18.00	\$3.71	\$20.00	\$0.00	\$25.00
416 PARTY EXPENSE	\$0.00	\$70.00	\$75.00	\$95.00	\$100.00
415 SANI-CAN	\$70.00	\$108.00	\$150.00	\$162.00	\$200.00
OTHER EXPENSES	\$145.00	\$43.80	\$50.00	\$614.87	\$150.00
418 PARK RESERVATION FEES	\$0.00		\$100.00	\$122.56	\$150.00
=====					
FIELD DAY TOTAL	\$413.00	\$683.59	\$530.00	\$1,219.27	\$950.00

PICNIC					
FOOD AND POP	\$48.00	\$42.94	\$60.00	\$80.00	\$100.00
OTHER EXPENSES	\$0.00	\$25.00	\$40.00	\$10.53	\$25.00
=====					
419 PICNIC TOTAL	\$48.00	\$67.94	\$100.00	\$90.53	\$125.00

CHRISTMAS PARTY					
421 HALL RENTAL	\$50.00	\$0.00	\$200.00	\$0.00	\$200.00
422 FOOD	\$61.00	\$100.00	\$125.00	\$50.00	\$75.00
423 PRIZES AND DECORATIONS	\$20.00	\$50.00	\$50.00	\$47.82	\$75.00
=====					
CHRISTMAS PARTY TOTAL	\$131.00	\$150.00	\$375.00	\$97.82	\$350.00

BANQUET					
GUEST DINNER	\$0.00	\$0.00	\$0.00	\$0.00	
431 AWARDS	\$160.00	\$176.09	\$175.00	* \$170.00	\$200.00
432 PRIZES	\$400.00	\$400.00	\$400.00	\$400.00	\$400.00
433 ENTERTAINMENT	\$0.00	\$0.00	\$30.00	\$0.00	\$50.00
434 OTHER EXPENSES	\$90.00	\$80.00	\$50.00	* \$50.00	\$50.00
=====					
BANQUET TOTAL	\$650.00	\$656.09	\$655.00	* \$620.00	\$700.00

RELAY					
442 POSTAGE	\$370.00	\$498.00	\$500.00	* \$500.00	\$600.00
441 PRINTING	\$320.00	\$456.90	\$500.00	* \$510.00	\$600.00
444 SUPPLIES	\$10.00	\$17.29	\$150.00	\$90.00	\$125.00
=====					
RELAY TOTAL	\$700.00	\$972.19	\$1,150.00	\$1,100.00	\$1,325.00

HALL RENTAL					
GOODNEIGHBOR CENTER	\$200.00	\$200.00	\$50.00	\$50.00	\$50.00
TUKWILLA COMM. CTR.	\$0.00	\$94.00	\$550.00	\$528.00	\$600.00
=====					
450 HALL RENTAL TOTAL	\$200.00	\$294.00	\$600.00	\$578.00	\$650.00

452 FLEA MARKET	\$4,500.00	\$6,075.36	\$5,000.00	* \$6,100.00	\$6,500.00

REPEATER					
556 SITE RENTAL	\$360.00	\$360.00	\$360.00	\$360.00	\$360.00
553 PURCHASE BACKUP RPTR.	\$500.00	\$1,250.00	\$2,000.00	\$1,500.00	\$0.00
557 REPAIR	\$50.00	\$460.00	\$150.00	\$0.00	\$150.00
558 OTHER EXPENSES	\$0.00	\$54.85	\$150.00	\$0.00	\$150.00
=====					
TOTAL REPEATER	\$910.00	\$2,124.85	\$2,660.00	\$1,860.00	\$660.00

* Projected to
End of '89 Bdyt.

EXPENSE ITEM 1990 BUDGET	:1987 :ACTUAL	:1988 :ACTUAL	: BUDGETED :FOR 1989	:1989 :ACTUAL	:1990 :BUDGET
MISCELLANEOUS ITEMS					
561 SEC./TREAS. EXPENSE	\$25.00	\$28.00	\$50.00	\$45.62	\$75.00
562 STATE FILING FEE	\$5.00	\$5.00	\$10.00	\$5.00	\$5.00
563 BANK SERVICE CHARGES	\$15.00	\$0.00	\$20.00	\$27.24	\$30.00
564 TRAILER LICENSE	\$40.00	\$37.40	\$50.00	\$40.00	\$80.00
565 INSURANCE	\$250.00	\$248.00	\$350.00	\$248.00	\$250.00
566 WWARA MEMBERSHIP	\$10.00	\$10.00	\$10.00	\$10.00	\$10.00
567 PRINTING (NON RELAY)	\$5.00	\$152.48	\$400.00	\$476.00	\$300.00
568 PUBLIC RELATIONS	\$0.00	\$50.00	\$50.00	\$123.40	\$700.00
569 GUEST SPEAKER	\$0.00	\$0.00	\$50.00	\$0.00	\$50.00
570 P.O BOX	\$50.00	\$28.00	\$40.00	\$30.00	\$30.00
571 UNANTICIPATED EXPENSES	\$100.00	\$95.71	\$100.00	\$100.00	\$600.00
572 NAME TAGS-BADGES	\$0.00	\$116.59	\$100.00	\$150.00	\$200.00
TOTAL MISC.	\$500.00	\$771.18	\$1,230.00	\$1,255.26	\$2,330.00

EXPENSE SUMMARY					
FIELD DAY TOTAL	\$413.00	\$683.59	\$530.00	* \$1,219.27	\$950.00
PICNIC TOTAL	\$48.00	\$67.94	\$100.00	\$90.53	\$125.00
CHRISTMAS PARTY TOTAL	\$131.00	\$150.00	\$375.00	\$97.82	\$350.00
BANQUET TOTAL	\$650.00	\$656.09	\$655.00	\$620.00	\$700.00
RELAY TOTAL	\$700.00	\$972.19	\$1,150.00	\$1,100.00	\$1,325.00
HALL RENTAL TOTAL	\$200.00	\$294.00	\$600.00	\$578.00	\$650.00
FLEA MARKET	\$4,500.00	\$6,075.36	\$5,000.00	\$6,100.00	\$6,500.00
TRAINING	\$180.00	\$275.00	\$300.00	\$0.00	\$0.00
TOTAL REPEATER	\$910.00	\$2,124.85	\$2,660.00	\$1,860.00	\$660.00
TOTAL MISC.	\$500.00	\$771.18	\$1,230.00	\$1,255.26	\$2,330.00
TOTAL EXPENSES	\$8,232.00	\$12,070.20	\$12,600.00	\$12,920.88	\$13,590.00

INCOME CATAGORY 1990 BUDGET	:1987 :ACTUAL	:1988 :ACTUAL	: BUDGETED :FOR 1989	:YEAR TO :DATE	:1990 :BUDGET
310 DUES	\$975.00	\$1,834.00	\$1,800.00	* \$1,500.00	\$1,700.00
330 FIELD DAY RESERVATIONS *barricks & wagon wheel	\$0.00	\$108.10	\$100.00	\$169.00	\$175.00
320 FLEA MARKET	\$8,000.00	\$12,025.10	\$9,000.00	\$10,000.00	\$11,000.00
340 INTEREST	\$115.00	\$211.01	\$200.00	* \$300.00	\$300.00
345 MISCELLAENOUS	\$6.00	\$133.00	\$200.00	\$90.00	\$200.00
350 BADGES-NAME TAGS	\$0.00	\$116.30		\$120.00	\$200.00
TOTAL INCOME	\$9,096.00	\$14,427.51	\$11,300.00	\$12,179.00	\$13,575.00

RECAP					
TOTAL INCOME	\$9,096.00	\$14,427.51	\$11,300.00	\$12,179.00	\$13,575.00
TOTAL EXPENSE	:(3,169.02)	:(12,070.20)	:(12,600.00)	:(12,920.88)	:(13,590.00)
PROFIT OR (LOSS)	:(1,270.61)	\$2,357.31	:(1,300.00)	* (\$741.88)	(\$15.00)

* Projected to
End of '89 Bdgt.

Approved by Board Feb. 6, 1990
To Be Voted on by Club Feb. 24, 1990

Last month I designed a questionnaire to help me and others get a 'feel' for the Mike & Key Amateur Radio Club. I felt kinda lost in the large influx of new members and I know others in the same boat. My return rate was about 25%. Anybody who has ever done a questionnaire knows that isn't bad at all. While not everybody participated, I feel a good overview resulted. Moreover, I am extremely pleased at the number of comments I recieved: good, bad, and indifferent. To me, those mean more then the answered questions. Anyway, the results.....

Age.... less than 20-0% 20/40-27% 41/60-34% more than 60-38%

Work.... N/A-1% Blue Collar-32% White Collar-21% Retired-44%

License.... Novice-0% Tech-13% General-23% Advanced-32% Extra-32%

(I would say from these results that we don't attract too many younger or beginner types. Unfortunately, that's what is happening on a national scale too)

Mode Preference.... Phone-60% CW-27% Digital-15% Image-0%

(What happened to our Amateur TV guys. Don't you fill out questionnaires?)

Frequency Preference.... HF-50% VHF/UHF-22% no Preference-28%

Membership.... less than year-25% 1/5-50% 5/10-5% 10+ years-18%

Active: 86% Inactive: 12%

(looks like almost 3/4 of our members have been around for less than 5 years and the majority consider themselves active)

Club Activity Preference... Social-20% Operating-31% All-44% none-4%

(I don't get it, if 50-70% like all these club activities, and you consider yourself active, why don't we have a larger attendance at the Parties, banquets or operating events??)

We should.... keep-52% dump-35% modify-25% the raffle

Club Programs are.... satisfactory-77% unsatisfactory-23%

Activities cost.... too much-5% too little-2% about right-45% don't care-47%

I joined for.... fellowship-68% repeater-14% other-16% (most technical education)

(nice to know we haven't fallen into the repeater support group mode)

The club officers.... do-82% don't-13% represent my opinions.

Elections.... can-82% will not-18% change things.

I.... would-55% would not-41% consider running for elections.

This Poll was-95% wasn't-5% worth the time to it took to fill it out.

Of course if you consider all who didn't fill out the questionnaire, then it would be about 75% for the not worth it guys. However I appreciate you who took the time. I appreciate even more the comments and letters I got. It seems I struck a chord among some of you. If you are interested in the comments I got, they should be somewhere else in this Relay. -uwj

1990 **Feb 11 - Mar 24** 1990

FEBURARY AND MARCH EVENTS

SUN	MON	TUE	WED	THU	FRI	SAT
Feb 11	Feb 12 Lincoln's Birthday	Feb 13	Feb 14 7:30pm MIKE AND KEY NET ON 146.82 RPTR. Valentine's Day	Feb 15 7:00pm PUBLIC SERVICE NET ON 146.82 RPTR. 7:30pm PARS RADIO CLUB	Feb 16	Feb 17 9:00am SALEM HAMFEST 1:00pm VE EXAMS at Good Neighbors Center <i>LOOK</i> ↓
Feb 18	Feb 19 President's Day	Feb 20	Feb 21 7:30pm MIKE AND KEY NET ON 146.82 RPTR. 7:30pm FLEA MARKET MEETING	Feb 22 7:00pm PUBLIC SERVICE NET ON 146.82 RPTR. Washington's Birthday	Feb 23	Feb 24 8:00am BREAKFAST AT RIVERSIDE 10:00am CLUB MEETING IN TUKWILA **** Meeting
Feb 25	Feb 26	Feb 27	Feb 28 7:30pm MIKE AND KEY NET ON 146.82 RPTR. Ash Wednesday	Mar 1 7:00pm PUBLIC SERVICE NET ON 146.82 RPTR. 7:30pm ISSAQUAH RADIO CLUB MEETING	Mar 2	Mar 3 8:00am CAMANO ISLAND HAM BREAKFAST 8:00am WINTER SPECIAL OLYMPICS
Mar 4 WINTER SPECIAL OLYMPICS	Mar 5	Mar 6 7:30pm Board Meeting **RELAY DEADLINE FOR NEXT ISSUE**	Mar 7 7:30pm MIKE AND KEY NET ON 146.82 RPTR.	Mar 8 7:00pm PUBLIC SERVICE NET ON 146.82 RPTR. 7:30pm 911 COMMITTEE MEETING BELLEVUE TRAIN. CTR.	Mar 9 2:00pm FLEA MARKET SETUP-- HELP REQUIRED <i>you are needed!</i>	Mar 10 10th ANUAL ELECTRONIC FLEA MARKET <i>Here, too!</i>
Mar 11	Mar 12	Mar 13	Mar 14 7:30pm MIKE AND KEY NET ON 146.82 RPTR.	Mar 15 7:00pm PUBLIC SERVICE NET ON 146.82 RPTR. 7:30pm PARS RADIO CLUB	Mar 16	Mar 17 7:30am Breakfast at Riverside 10:00am CLUB METING FOR ELECTIONS TUKWILA CC 1:00pm VE EXAMS at Good Neighbors Center
Mar 18	Mar 19	Mar 20	Mar 21 7:30pm MIKE AND KEY NET ON 146.82 RPTR. Spring begins	Mar 22 7:00pm PUBLIC SERVICE NET ON 146.82 RPTR.	Mar 23	Mar 24

FOR ADDITIONS CONTACT EDITOR