

K7LED

RELAY

AN
ARRL
AFFILIATED
CLUB

NEAR SEATTLE, WASHINGTON

VOLUME 12

NOVEMBER 1984

NUMBER 11

CLUB OFFICERS

President	Charles Stroehrer	WA7EBH	Trustee No. 1	Jimmy Sutton	WA7LNQ
Vice President	Karl de Jong	N7AMX	Trustee No. 2	John Rehnstrom	WA7HQQ
Secretary	Deborah de Jong	N7AVO	Trustee No. 3	George Boross	N7BT
Treasurer	Mike Cross	WB7AYU	Trustee No. 4	Vern Nelson	W7ZLW
Activity Mgr	Hal Goodell	N7NW	Trustee No. 5	Ray Leslie	WA7EKH

CLUB RADIO OFFICER: KEN RAU K7YR

The K7LED RELAY is the Official publication of the MIKE and KEY AMATEUR RADIO CLUB, 5430 Lake Alice Rd SE, Fall City, WA. 98024. The Club meets the third Saturday of each month at 10 AM 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. 98034



First Class

REPEATER FREQUENCY

147.08-68
52.37-53.37

BOARD MEETING

DEC 5th AT

*W7ZLW
1930 HRS QTH*

CLUB MEETS:

**UGN CENTER
RENTON 10:00**

17 NOV 84

ACTIVITY EVENING

*CHRISTMAS PARTY
DECEMBER 8th
AT FORREST RIDGE
SCHOOL*

K7WTG
PETE HEDBERG
28904 NE 77TH ST
REDMOND WA 98053

COFFEE AND DONUTS WILL BE READY AT 0930, SEE YOU AT THE MEETING

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

CHARLES STROEHER, WA7EBH, 13614 SE 43rd St, Bellevue, Wa. 98006, Phone 747-7833

KARL de JONG, N7AMX, 20903 NE 77th St, Redmond, Wa. 98053, Phone 883-3012

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RAY LESLIE, WA7EKH, 13517 117th Ave NE, Kirkland, Wa, 98033, Phone 821-4188

NEWSPAPER--NEWSPAPER==

OK, lets get back to the old newspaper caper again. Depending on how the collection went last club meeting time, we should be in good shape for the next banquet in regard to money--the last I knew, after I checked with Deborah, there is \$76.93 in the fund. Now that is not to bad. We have been running on the average of about \$10.00 per month. Sure would like to see this fund get up to \$200.00 this year. All of you out there, bring your throw-away newspaper to the Club meeting instead of just dumping them in the garbage can. If you give them to some other worthy charity, thats another thing, but just throwing them away, thats awfull when you could donate them to the Ladies Fund at the M&K Club. We will also take alumnum beer cans or soda pop cans or any alumnum that you have left over from some of your projects. Please, we would like your help. WA7EKH

THE PREZ SEZE:.....

It looks like we had a fair auction on October 27th, and I want to thank all those members that turned out to help. It has been suggested that we drop the auction and concentrate our efforts on the Flea Market. You might bring your ideas to the club meeting on Nov 17th.

Hope to see everyone at the Christmas party on December 8th at Forest Ridge in Bellevue. Also there has been talk of having a "Snow Party" sometime in February, so make your ideas known to either Hal, N7NW, or any board member.

With the Flea Market comming up we are going to need help putting it together and pulling it off, so dust off your work shoes and find the work clothes so you can help out.

See ya at the meeting--Chuck WA7EBH

In the last issue of the RELAY there was a list of all the members of the Mike & Key Amateur Radio Club plus a few others that we send a copy of the RELAY.

You may wish to find your copy of the RELAY and direct your attention to the last two columns. The one on the far right indicates when your next Club dues should be paid. The next to the right column is the date that you joined the Mike & Key Club. There was some discrepancy in the dates that some of us had joined, however, I believe this has been corrected.

So!!, please check the right column as a lot of us will be delinquent in dues soon. also, refer to your copy of the Club Constitution in regards to delinquency of dues. There was a change in the last ammendment to the Constitution that may affect some of us. You know, the Club dues is still \$8.00 a year and at least \$2.40 goes for postage for the RELAY. If there is any special mailing that comes out of the dues also. That is not an outrageous amount to spend to belong to the greatest and best Radio Club in the Northwest!!!

In the past I have included a small slip of paper indicting that your membership was about to run out unless you paid your dues, due to circumstances beyond my control I did not do this for a few months, however, I will attempt to include this in this edition. This is just a frendly reminder in case you forgot. WA7EKH - RAY

FCC Affirms Public Service Communications

For several years, the Tri-State Amateur Repeater Council (TSARC) has provided communications for the New York City Marathon sponsored by the New York Road Runners Club. From time to time controversy has surrounded this effort and similar ones by other groups around the country because of the prohibition of business communications. The controversy was further fueled this year when the Road Runners decided to award prize money to the winners. TSARC President Steve Mendelsohn, WA2DHF, wrote FCC Private Radio Bureau Chief Robert Foosner and asked what is permissible. Foosner responded in an October 23 letter that may be of service to other groups considering participating in public events. Here is the text of the letter:

"This is in response to your letter of October 15, 1984 concerning providing amateur radio communications at the New York Road Runners Club marathon.

"The Commission addressed the matter of business communications in the Amateur Radio Service in the Order released July 12, 1983 (copy enclosed). You will note in paragraph 3 that the term business communications as defined in Section 97.3(bb) of the Rules is used in the broadest context. It includes all types of communications which are intended to facilitate the regular business affairs of any party, whether for-profit or not-for-profit, etc. Thus, the determination as to the types of amateur radio communications that your group could provide at a marathon would not be affected by the profit objectives of the sponsor, nor by the pay status of other participants.

"A fundamental guideline that should be observed in these instances is also stated in paragraph 3 of the Order: '...the Amateur Radio Service should not be used as an alternative to the land mobile, broadcast, maritime, or common carrier radio services, all of which have been established by appropriate regulatory processes.' To the extent that these other radio services can be used to perform the necessary communications, such communications should not be transmitted by amateur radio.

"Section 97.110 of the Rules, which prohibits business communications by amateur radio, does not prohibit amateur radio operators from participating in a marathon as a public service activity. Although some communications transmitted could incidentally benefit a sponsor, we do not view such communications as violations of the rules where their main purpose is to provide a service to the public.

"In your letter you describe three specific services which amateur radio could provide. The first is a medical network, by which race authorities could be notified of a runner's need for medical attention. This medical network is of course acceptable.

"The second service is logistical. Amateur radio operators would provide the communications necessary to facilitate the public's safe observation of the event. Clearly there is benefit to the race sponsor, but it is incidental; the principal beneficiaries of this would be the runners and the public.

"Finally, there is the lead runner position network. As you acknowledge the purpose of this is to facilitate a system whereby the public, including, presumably, the news media, are informed of the progress of the race via amateur radio. This runs afoul of the Section 97.113 of the rules, which prohibits the dissemination of radio communications intended to be received by the public. If you wish to provide this service we recommend you do it on commercial frequencies with other equipment. Amateur radio operators could participate in this phase, but not by virtue of their amateur licenses.

"Please inform your group that their licenses are not endangered by participating in the marathon. They have my support and my personal thanks for serving the public."

SUPPORT YOUR LOCAL RADIO STORE,

WHEN YOU BUY, BUY LOCAL

¶ ARRL has filed comments partially supporting FCC's proposal to amend the rules concerning the rebroadcast of transmissions from non-broadcast stations (BC Docket No. 79-47). The League supports the proposal to delete the requirement that broadcast stations obtain FCC authority to rebroadcast transmissions of private non-broadcast radio stations. ARRL does believe, however, that the broadcasters should continue to receive the permission of the amateur station prior to the retransmission. Without such a provision an amateur would not have control over the possible uses of his signal.

The proposal would also prohibit hams from doing anything that might in any way facilitate the normal business activity of a commercial newsgathering operation. ARRL argues that the language used is overly restrictive, since anything that an amateur might do in an emergency in some way might facilitate such newsgathering activity. A better approach, says the League, is prohibiting amateurs from acting in the capacity of a reporter or translator.

FCC proposed to remove the phrase "automatic means" from Section 97.113, which deals with amateurs retransmitting signals from other services. With this phrase removed, retransmission under any circumstance would be illegal. Many groups now manually retransmit the signals from the space shuttle and from NOAA weather broadcasts during weather emergencies. ARRL opposes this move because it places additional unnecessary restrictions on the amateur service.

Another point of contention is the FCC proposal to prohibit one-way emergency communications including bona fide emergency drill practice transmissions. FCC's stated reason for this is a fear that amateur stations may conclude that they are free to broadcast during emergencies. ARRL is not aware that such a misconception has ever occurred.

¶ Astronaut Tony England, W00RE, tells us that a second ham is now scheduled to fly with him on his mission next spring. John-David F. Bartoe, W4NYZ, is a Payload Specialist for the mission. Ground work for the project is proceeding on the assumption that formal notification of acceptance from NASA will be coming forth-with.

¶ A year ago in July FCC adopted a Report and Order in PR Docket 82624, changing the way amateur power is measured from dc input to PEP output. The decision was well accepted by most of the amateur fraternity and indeed, the new standard was a bit more generous for most modes. However, the new standard of 1500 watts PEP output represented a cut for radio amateurs using full carrier standard high-level amplitude modulation. [FCC attempted to soften the blow by "grandfathering" present operations of A.M. transmitters until 1990.] Nevertheless, petitions for reconsideration were filed by the Society for Promotion of Amplitude Modulation, Kevin Alfred Strom and Donald B. Chester. Reply comments in support of these were filed by Arthur E. Provan and Byron H. Kretzman. ARRL filed a Motion for Clarification, asking the Commission to clarify a statement in the original order: "Should we decide upon other standards in the future, we will release them in public notices." On September 10, 1984, FCC released a Memorandum Opinion and Order denying the petitions for reconsideration, clarifying that the language questioned by the League dealt only with measurement techniques, and correcting Section 97.67 (b) of the rules to make it clear that the new peak power output standard is subject to limitations and exceptions in Sections 97.61 and 97.67.

We now have a news release from Glenn A. Baxter, K1MAN, of Belgrade Lakes, Maine, who says he has taken the matter of "the A.M. power reduction" to the United States Court of Appeals in Washington, in an action dated September 21, 1984. The release says that a Federal District Court ruling January 19, 1984, cited Title 47 U.S. Code Section 402 which authorized the appeal upon a final FCC ruling on the petitions for reconsideration. Baxter goes on to say:

"... It is the principle of the thing that is important. This principle is easily understood by any amateur who is told by his local zoning board to cut his 60 foot tower in half by the year 1990 and that this will reduce his signal by only 3 dB; their primary reason being that they cannot justify the expense of measuring 60 foot towers as opposed to 30 foot towers.

What Baxter has actually done at this stage is to file "Notice of Appeal," a preliminary step in this process, on his own behalf.

¶ In August QST, Washington Mailbox dealt with the issue of which call sign to use. The statement, "Of course the control operator may simply use his or her own call sign at your shack to ID the operations," was challenged by several amateurs, who see it as in conflict with Section 97.84. ARRL Washington Area Coordinator Perry Williams, W1UED, met with FCC Personal Radio Bureau Chief John B. Johnston, W3BE, on a recent visit. The copy had been read by Mr. Johnston before publication so it seemed wise and natural to ask his views again. Now that transceivers can be passed from hand to hand, the interpretation he has been using

for some time is based on physical control being the important criterion. Thus, John believes that the call sign of the person having physical control of the station equipment may always be used. The original rule was written in another era for different equipment conditions. Yet there are cases, such as W1AW, other club stations and central stations for emergency service, in which the identity of the station should be preserved --as indeed it is in the language of Section 97.84. Summing up, the present interpretation as reported in August QST poses no unreasonable limits and provides maximum flexibility to the Amateur Service.

REPRINT FROM WWARA NEWSLETTER

WHAT IS REALLY MEANT BY THE TERM "CLOSED" REPEATER? CAN A REPEATER, AS WE COMMONLY KNOW THEM, REALLY BE CLOSED? IS A REPEATER REALLY CLOSED JUST BECAUSE THE OWNER AND/OR HIS "CONTROL" OPERATORS SAY THAT IT IS??? I THINK NOT. AS CONTROL OPERATOR, OWNER OR LICENSEE OF AN AMATEUR RADIO STATION/REPEATER ONE HAS AUTHORITY TO DECIDE WHAT HIS/HER STATION WILL TRANSMIT OR RETRANSMIT. TO ACCOMPLISH THIS, SPECIAL DISCRETE SIGNALS AND CODES MAY BE UTILIZED WHICH ARE RECOGNIZED BY THE SYSTEM'S CONTROL LOGIC AS A COMMAND TO TURN ON THE TRANSMITTER. ONCE THOSE "SPECIAL AND DISCRETE" SIGNALS ARE KNOWN BY OR DISCOVERED BY OPERATORS, OTHER THAN THOSE WHO ENVISIONED THEMSELVES AS BEING THE SOLE USERS OF A "PRIVATE-CLOSED SYSTEM", CAN THE SYSTEM STILL BE CALLED A CLOSED SYSTEM? THERE ARE THOSE AMATEURS WHO SEEM TO IMAGINE THEMSELVES AS THE OWNERS OF THE FREQUENCY TO WHICH THEIR SYSTEM HAS BEEN COORDINATED. THIS CONCEPT CERTAINLY IS NOT A VALID ASSUMPTION. THOSE WHO BELIEVE THIS WAY ARE THE ONES WHO WOULD ANNOUNCE TO YOU, WHEN THEY HEAR YOUR SIGNAL BEING RETRANSMITTED BY THEIR "CLOSED" SYSTEM, THAT YOU ARE TRANSMITTING ON A CLOSED REPEATER SYSTEM'S FREQUENCY AND THAT YOU MUST QSY BECAUSE YOU ARE NOT ONE OF THE INVITED FEW WHO ARE "ALLOWED" TO USE THE SYSTEM. THE OPERATOR OF THE "CLOSED" SYSTEM CERTAINLY HAS THE RIGHT TO TURN HIS SYSTEM OFF IF HE DOES NOT WISH TO RETRANSMIT A CERTAIN SIGNAL. HE/SHE CAN ALSO CHANGE THE "SECRET" CODE USED TO ACTIVATE SAID SYSTEM BUT THERE IS NO RIGHT GIVEN TO ANY AMATEUR TO TELL ANY OTHER PROPERLY LICENSED AMATEUR WHO IS OPERATING WITHIN THE PRIVILEGES OF HIS CLASS OF LICENSE THAT HE MAY NOT TRANSMIT ON A CERTAIN FREQUENCY. ANY AMATEUR MAY TRANSMIT ON ANY FREQUENCY ALLOCATED FOR HIS CLASS OF LICENSE AND MAY TRANSMIT ANY SUBAUDIBLE TONE OR DIGITAL SIGNAL WITH HIS SIGNAL AND NO OTHER AMATEUR MAY FORBID HIM FROM DOING IT OR EVEN TELL HIM NOT TO DO IT UNLESS WHAT IS BEING TRANSMITTED VIOLATES A LAW AND/OR INTERFERES WITH THE LEGAL OPERATION OF ANOTHER STATION.

WITH THE INTRODUCTION OF FULL BAND COVERAGE, SYNTHESIZED RADIOS FOR ALL AMATEUR FREQUENCIES, MANY OF WHICH ARE COMING EQUIPPED WITH PREVIOUSLY OPTIONAL FEATURES SUCH AS DTMF ENCODERS AND PROGRAMMABLE CTCSS ENCODERS, MANY AMATEURS' CONCEPT OF "CLOSED" REPEATERS SHOULD BE RE-EXAMINED. MANY OWNERS OF THESE NEW RADIOS ARE GOING TO BE NERVE ENOUGH TO BELIEVE THAT WHEN THAT "UNFRIENDLY OLD GOAT" COMES ON THE AIR ON A SYSTEM DISCOVERED ON THIS NEW RADIO AND ANNOUNCES THAT UNINVITED PERSONS ARE TO QSY FROM THE "CLOSED" SYSTEM, THAT THEY ARE BEING SPOKEN TO BY SOMEONE WHO HAS SOME AUTHORITY TO MAKE THEM QSY. OBVIOUSLY, SUCH IS NOT THE CASE AT ALL.

THIS IS NOT TO SAY THAT THERE AREN'T WAYS OF ENCOURAGING THE FORMATION OF SPECIAL INTEREST GROUP REPEATERS AND IN A FRIENDLY WAY STRONGLY ENCOURAGING CERTAIN USES OF A SYSTEM AS DEFINED BY THE OWNERS AND/OR SUPPORT GROUP.

THIS SUBJECT NEEDS TO BE DISCUSSED. I DON'T THINK THAT A LOT OF SYSTEMS THAT ARE STATED TO BE "CLOSED" SYSTEMS ARE REALLY OFF LIMITS TO AMATEURS WHOSE LEGALLY AUTHORIZED SIGNALS ARE RETRANSMITTED BY THEM NO MATTER WHAT THE OPERATORS OF THESE "CLOSED-PRIVATE" SYSTEMS MAY TRY TO TELL YOU.

AMATEUR EXAMINATIONS

VOLUNTEER EXAMINATIONS WILL BE ADMINISTERED BEGINNING AT 10 A.M. SATURDAY DECEMBER 15TH AT THE NORTH SEATTLE COMMUNITY COLLEGE, ROOM 3343.

ALL GRADES OF EXAMINATIONS WILL BE CONDUCTED - NOVICE THRU EXTRA CLASS.

A COMPLETED 610 FORM AND A COPY OF YOUR LICENSE SHOULD BE MAILED TO HARRY LEWIS, W7JWJ, WHOSE ADDRESS IS GOOD IN THE CALL BOOK.

THERE WILL BE NO CHARGE FOR THIS EXAMINATION, NOR WILL THERE BE A DEADLINE.

WALK-IN APPLICANTS WILL BE ACCEPTED WHILE SPACE PERMITS AND EXAMINATION PAPERS ARE AVAILABLE.

IF APPLICATIONS WARRANT - THERE WILL BE EXAMINATIONS CONDUCTED AT THE COLLEGE ON A MONTHLY BASIS DURING THE WINTER OF 1985.

FURTHER INFORMATION ABOUT THESE EXAMS, MAY BE OBTAINED BY CONTACTING MARY LEWIS, W8QGP, WHOSE ADDRESS IS ON PAGE 8 OF EACH QST MAGAZINE.

CLUB MEETING--20 OCT 84

After the opening ceremonies the introductions started with the question "What nets do you check into?". After all we do each have different goals so we can't check into the same net.

Jack said he would give us a map so we could find Forest Ridge School for the Christmas Party - found the map from last years party, the school is still in the same place so this map will do. As you go up Somerset Blvd., there is a little green sign on the street sign post, this sign points to the school.

The Radio Officer, K7YR, offered his excuses as to why he couldn't give more support to the Club at this time. After a move like he just went thru it will be a long time before he gets it sorted out, such as the roving radio is in a box but he don't know where the box is. (He is going to ware out that don't know where things are excuse is pretty soon).

There were reported a few openings on the 6 meter band.

K7PFR and his son are into model trains - he brought son and a few of the models to the meeting. Looks good John, I know you and young son will have lots of fun. John has built up a 4 x 8 board with all the trains, track, hill, depot, etc.

Warren Nixon, K7MRH, has offered to conduct a Code Class, he needs help. You know this isn't a one man job and there is lots of talent out there to help him.

Arrangements have been made for guest housing at Fort Flagler State Park for next Field Day. There are two houses, one will hold 6 people and the other 10 people. Those of you who don't have RV's will be able to use these facilities. Looks like the Club will foot the bill. Priority will go to the adults who want to participate in Field Day. More on this later.

Tim, K7QMI, says help him on Santa Talk or it will have to be dropped as he can't do it all himself -there was a list going around to sign up.

We need some new members in our Club. If you know of a new or old Ham, invite him or her to a meeting!!

In this issue is one of our Club certificates that you can earn - think about it and ask questions if you don't know.

The USofA flag and the ARRL flag was displayed on our new standards - needless to say, this is a very impressive display. You need to come to the meeting and see this.

Ray - WA7EKH

Friendship



Award

Headquarters, Seattle, Washington

This Certifies that _____

Has contacted ten members of this club whose calls appear hereon
and by virtue of same is granted this Certificate of Friendship.

President

Date

Secretary

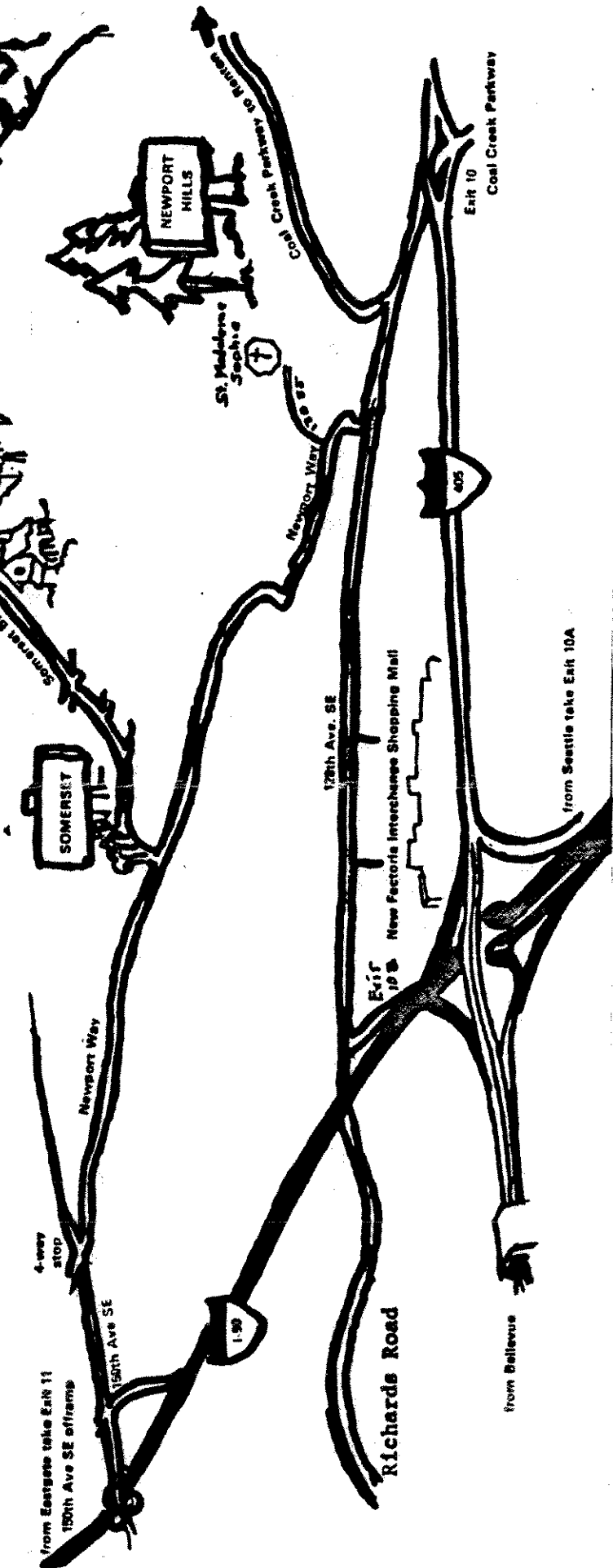
Driving directions to FOREST RIDGE SCHOOL

from the west (Seattle, Mercer Island)
 Take I-90 east to Exit 10-A. (Sign indicates "Renton," shortly after crossing East Channel Bridge.) When approaching 405 to merge, stay in right lane, and immediately take Coal Creek Parkway exit. After exiting (L) follow Coal Creek Parkway one half mile to Newport Way (on left.). Follow Newport Way less than a mile to Somerset entrance on right.
 from the east (Issaquah, Snoqualmie Valley)
 Take I-90 west to Exit 11 (Eastgate) following the signs to the 150th SE off-ramp. Cross over I-90 and proceed south to the second stop (Newport Way) and turn right (west). Go 3/4 mile to Somerset's four fountains on left.
 At Somerset (Four fountains at entrance) follow (climb) Somerset Boulevard through the residential area to 139th Avenue SE (on right). (139th follows a light turn preceded by a School 20 MPH sign.) Turn right on 139th and follow it into Forest Ridge. Turn right on 130th S.E. from Newport Way to go to St. Madeleine Sophie Church.

from the north (Bellevue, Kirkland and points north)
 Follow Highway 405 south to Coal Creek Parkway (Exit 10). Follow Coal Creek Parkway one half mile to Newport Way (on left). Follow Newport Way less than a mile to Somerset entrance on right.

from the south (Renton, South Seattle, South King County)
 Follow Highway 405 north to Coal Creek Parkway (Exit 10). Turn right and follow Coal Creek Parkway one half mile to Newport Way (on left.) Follow Newport Way less than a mile to Somerset entrance on right.

from the west (Seattle, Mercer Island)
 Take I-90 east to Exit 10-A. (Sign indicates "Renton," shortly after crossing East Channel Bridge.) When approaching 405 to merge, stay in right lane, and immediately take Coal Creek Parkway exit. After exiting (L) follow Coal Creek Parkway one half mile to Newport Way (on left.). Follow Newport Way less than a mile to Somerset entrance on right.
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COME TO OUR CHRISTMAS PARTY - DECEMBER 10TH

WE ARE ATTEMPTING TO GET THE "LONG RANGE PLANNING" COMMITTEE IN OPERATION. THE FIRST MEETING WAS SCHEDULED FOR NOVEMBER 9TH. THE THOUGHT BEHIND THIS IS TO MAKE SOME PLANS TO SUBMIT TO THE BOARD AS TO WHAT DIRECTION IS THIS CLUB GOING AND HOW ARE WE GOING TO GET THERE.

THIS COMMITTEE WILL BE MADE UP OF MEMBERS OTHER THAN THOSE WHO SERVE ON THE BOARD. THAT MEANS THAT YOU AS A MEMBER ARE EXPECTED TO SERVE ON THIS COMMITTEE AND ABOVE ALL GIVE THE COMMITTEE YOUR IDEAS. EACH AND EVERYONE OF US HAVE SOME IDEA AS TO WHAT WE SHOULD DO AND HOW WE SHOULD DO IT.

THE RESULTS OF THIS FIRST MEETING WAS NOT AVAILABLE TO PUBLISH IN THIS EDIION OF THE RELAY, HOWEVER, THERE WILL BE A REPORT AT THE CLUB MEETING.

THIS IS THE MOST IMPORTANT COMMITTEE THAT HAS EVER BEEN APPOINTED IN THE HISTORY OF THE MIKE AND KEY CLUB AND YOUR HELP IN OBTAINING RESULTS IN GREATLY NEEDED.

PUBLIC SERVICE EVENTS

November 24th	K6DOW	271-5341	Seattle	Seattle Marathon
December 9th			Lk Wash	Boat Ride for the handicapped
December 10-23	K7QMI	547-0404	Seattle	Santa Talks Program for Hospitalized Children

CLUB EVENTS

November 17	- Club Meeting at UGN Center in Renton
December ?	- Board Meeting
8	- Christmas Party at Forest Ridge School
15	- Club Meeting at UGN Center in Renton
10-23	- Santa Talks

DUE TO THE HOLIDAYS AND OTHER THINGS COMMING UP BETWEEN NOW AND THE FIRST OF THE YEAR IT DOESN'T LOOK TO FAVORABLY FOR ANY OUTSIDE ACTIVITIES - THOSE OF US WHO HAVE ATTENDED THE ACTIVITIES ON THE FIRST WEDNESDAY OF THKE MONTH HAVE REALLY ENJOYED - THOSE OF YOU WHO CHOOSE NOT TO ATTEND, WELL, I CAN ONLY SAY YOU MISSED A GOOD THING.

SEA FARE CHOWDER

1 can condensed cream of tomato soup
1 can condensed cream of mushroom soup
1 1/2 cup milk
1 can (1lb-4oz) white potatoes, drained and cut in quarters
1 can (8oz;1 cup) peas, drained
1 can (6 1/2oz) crab meat, drained and flaked
1 can (7-8oz) tuna or salmon, drained and flaked or
1 can clams, juice and all
1 small grated onion
1 cup light cream or whole milk
1 blob of butter and salt and pepper to taste

Blend tomato soup, mushroom soup and milk. Add potatoes, peas, tuna (or salmon or clams), crab meat and onion; heat throughly. Just before serving, add cream or whole milk and butter, but do not boil - just heat well

KING COUNTY AMATEUR RADIO

F.C.C. EXAMS

Location: Museum of Flight, 9404 East Marginal Way South, Seattle, WA - located at King County International Airport (also known as Boeing Field)

Time: 9:00 am

Cost: \$3.00 per person per session

Date: December 8th, the second Saturday of December.

Tentatively exams will be given every second saturday of the month at this location during 1985. Do check to make sure!!!

Contact: Ivan Lee
15631 - 12th Ave South
Seattle, WA 98148

Pre-registration is preferred, but walkins will be accepted **IF** the limit for the classroom has not been met. I.E. pre-register if you want to be sure of taking the test!!!

These exams are being given under the auspicious of **King County Amateur Radio**. The participating King County Clubs follows. If you belong to a King County club and it is not listed below, ask your club president **WHY NOT?**.

North Seattle ARC
BEARS
Mike & Key ARC, Inc
West Seattle ARC
Puget Sound Rptr Group
Seattle University ARC

Sea-Tac ARC
U of W ARC
Sea-Tac Rptr Group
Auburn ARC
Telephone Pioneers of Am.

**The SUTTON family scored again
- Jim got his EXTRA CLASS!!**