



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 9:30am 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.

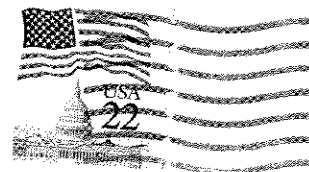
AN ARRL AFFILIATED CLUB LOCATED NEAR SEATTLE, WASHINGTON.

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REPEATER FREQUENCY
 52.05 - 53.05
 146.22 - 146.82
 224.12

First Class

BOARD MEETING

FIRST TUESDAY
 OF EACH MONTH

CLUB MEETS:

20 JUNE 1987

UGN CENTER
RENTON 10:00

BREAKFAST

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

PETE HEDBERG K7WTG
 20904 NE 77TH ST
 REDMOND
 WA 98053

COFFEE AND DONUTS WILL BE READY AT 9:30

NOTES FROM THE EDITOR

Last month the Relay was published by Hal N7NW and this month I'm going to give it a try. The shoes of Ray WA7EKH and Hal are very difficult to fill, so I'm not even going to try. There has been alot of assistance from these two and the board, especially Mike WA7UVJ, Pati WB7VJA, Vic WB7TBR, Chuck WA7EBH and Gib W7JIE. Thanks!

Look for some new things in the future to appear in the Relay. Beginning in July there will be a new calander format submitted by Ray which I think is pretty nice. Also, we will be adding some new columns: "Years Gone By" will be items taken from Relays of years ago to jog memories of what "used to be" in the Mike & Key; "Welcome Aboard" to introduce everyone to our new members; and "Meeting The Members" to enable us to become more acquainted with our existing members.

The deadline for submitting articles for the Relay will be two weeks before the club meeting. This will allow me the necessary time to edit the paper and get it to Vern W7ZLW in a timely manner so he can get it printed, etc. There will be exceptions from time to time depending on the board meeting. Since it is on July 7, I will make that the deadline. Please get your articles to either me, Hal, Mike or Ken K7YR by the deadline. We will be meeting from time to time to pool ideas, considerations, suggestions and whatever else it takes to get this newsletter out each month. The Board would like the paper to be kept at 12 pages (6 double-sided) for the present time due to cost, however, if I get enough to put out 24 (12 double-sided) pages, I certainly will. All we need is ARTICLES.

I'm looking forward to being your editor and sincerely hope I can do a good job for the Mike & Key. REMEMBER, I'm only the editor, this is YOUR newsletter!!

Joyce KB7BGW

Next Board Meeting: TUESDAY JULY 7

RHUBARB COBBLER

Mix together - put into 9" sq. pan:
1 C. Sugar
1/3 C. Krusty's Pancake Mix
1 T. Grated lemon peel
4 C. Rhubarb (cut in small pieces)

Mix until crumbly*

3/4 C. Pancake Mix

2/3 C. Sugar

1 egg

Drizzle with 1/4 C. melted butter and sprinkle on rhubarb mixture.

Bake 375 degrees F for 35-40 minutes.

Pati WB7VJA

HOW HOUSE CURRENT KILLS

Many people think fuses and circuit breakers are all the electrical protection that is necessary in the home. They are quick to relate cases where household voltage did nothing more than produce an unpleasant muscle reflex. But a closer look at a hypothetical home situation will show how a little voltage can be dangerous.

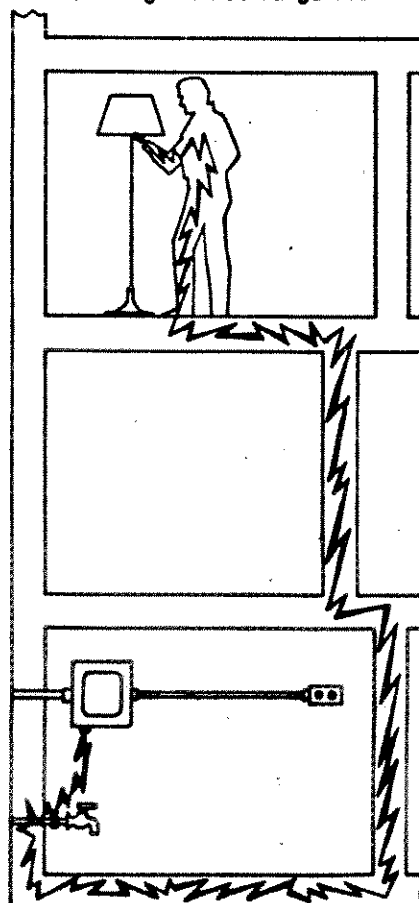


Fig. 2

In Figure 2 a man on the second floor of his home turns on a faulty

lamp. There's a little current "leakage," so the man experiences a mild shock.

The shock path goes through his body, through the carpeting, flooring, wooden beams and all the way down to the basement where the electrical service is bonded to the water pipes.

When the man touches the metal lamp, he completes a circuit and current flows. But in this case the circuit is such a long one, and there is so much resistance to the flow of current through poor conductors such as wood that the man experiences only a tingling sensation.

Now let's take the same man and put him down in the basement on damp concrete (Figure 3), where he has neglected to attach the green, pigtail groundwire of the adapter into which he has plugged his old drill.

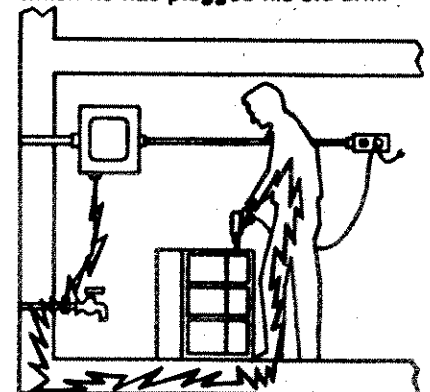


Fig. 3

Again there is current leakage, this time the path through his body to ground is very short, the damp concrete floor offers little resistance, and much more current can flow. Instead of a tingling sensation, the same voltage produces a tragic accident.

FIELD DAY 1987

For some of you who have not been with us at Marrowstone Island for Field Day, here is a brief rundown of what will happen.

Some of the members will arrive during the middle of the week or before. Most will be there Friday morning. Mobiles underway are telling those already there how close they are to the park. Those with motorhomes, trailers, tents, etc. usually set them up first. Then up to the site to begin the setting up of each individual station. When towers, coax, antennas are assembled on the ground, usually all hands are gathered and up goes the system.

While stations are being set up a crew will get the generator set up in a central location and then power cables, all sizes and lengths, will run to each band site.

In the evening, Friday, will be the clam feed. This is a club "gettogether" where all bring a little food and enjoy. Also, some rare Supermarket Wine is normally available.

Come Saturday morn, the early risers are up at the site checking equipment, tents, antennas, power cables and a Beautiful Morning overlooking the Puget Sound.

As one stands on the bluff, surrounded by bunkers, looking out over the Puget Sound waterway, he must wonder how it was in the 40's when the guns were manned, hoping not to see an enemy ship coming down the strait.

8-9-10 o'clock final checks are again made. Lots of chatter on handhelds. The decision is made whether to start at 11 or 12 local time. What bands will start out as we will be Class 7A, only 7 transmitters on at a time. Who will be on the first shift, who will be their replacements, who will help log, etc.

Then the starting time is upon us-- CQ FD, CQ FD, de K7LED, K7LED K--

Things usually go pretty good until about 10 at night. After that, very little activity in the area other than at the stations. The wind comes up and on go the jackets, more coffee is poured and through the night, shift changes and things slow down. You can hear

THEM but you don't seem to be able to quite hear K7LED.

As the day breaks, some of the bands pick up. May be a good time to get all those Locals on 75 and 2 meters and now also 220 and 450 FM. As the end draws near -- must get that last one --then--everyone wants to know "How did we do - better than last year?"

All hands start the duty of tearing down--"Whose cable is this?" By early evening, most are loaded and ready to leave for home - some stay over and just relax. "Hope we make the 6 o'clock ferry."

NOW WASN'T THAT FUN? JIM K7PHZ

BAND	CHAIRPERSON	PHONE
75 phone	Vern W7ZLW	882-2907
40 phone	Ken K7YR	222-7711
20 phone	Bob NX7N	631-8330
15 phone	Pati WB7VJA	927-7088
	Debbie N7AVO	868-0457
80/20 CW	Hal N7NW	549-4178
40/15 CW	Rick NU7Z	775-9196
	Jim K7ND	265-3481
Natural Power	Gene WA7TAI	822-3931
Fkt/Special	Gene WA7TAI	822-3931
OSCAR/ Satellite	Mike WB7AYU	935-2688
Novice Focal Pt	Mike WA7UVJ	854-4031

Please contact the above band chairpersons for helping them with their stations at field day. They all need operators, loggers, helpers, gofers, etc. Remember that you don't necessarily have to have an extra class ticket to help out, there is a place for everyones help, spouses, and the kids included. Remember that when things slow down, put a gal on the mike and watch the action pick up, it really works. Chuck WA7EBH

UNDER-THE-SEA SALAD

Make one 6 oz. package of lime jello per instructions. Chill for about 30 minutes in the refrigerator.

ADD:

1 pt. low-fat small curd cottage cheese that has been mashed.

1 C. Mayonnaise (low-cal is great)

1 B oz. can crushed pineapple in its own juice.

Mix thoroughly and continue chilling until set. You may wish to use sugar-free jello as I do. This makes for a very lo-cal dessert. You can also use strawberry banana flavor for variety. Joyce K7RRW

CROSS SOUND SERVICES

WHIDBEY I.

SEATTLE-WINSLOW
(Kitsap, Bainbridge Island)
Approx. Crossing—35 Min.
WINTER CONSTRUCTION SCHEDULE

Lv. Seattle	Lv. Winslow
8:20 AM	5:35 AM
7:00	6:20
7:50	7:10
8:40	7:50
9:25	8:40
10:10	9:20
11:15	10:15
12:15 PM	11:15
1:15	12:15 PM
2:05	1:15
3:00	2:10
3:45	2:55
4:40	3:50
5:25	4:35
6:15	5:25
7:00	6:10
7:45	S 7:00
8:30	S 7:45
	S 8:25
	9:10
9:50	
11:15	10:30
12:30 AM	
2:10	1:10 AM

Daily except Saturday, Sunday and Holidays
Saturday, Sunday and Holidays ONLY

SEATTLE-BREMERTON
(Kitsap County)
PASSENGER ONLY FERRY
(Approx. Crossing—35 min.)
See separate bulletins for passenger-only sailing times or call 464-6400.

AUTO FERRY
(Approx. crossing—60 min.)
WEEKDAY CONSTRUCTION SCHEDULE

Lv. Seattle	Lv. Bremerton
5:50 AM	5:40 AM
6:50	6:55
8:00	8:00
9:10	9:15
10:20	10:25
11:45	11:30 PM
1:35 PM	2:45
2:30	3:45
4:05	5:15
5:00	6:05
6:25	7:30
7:15	8:20
9:30	10:35
11:45	12:50 AM

* 2:10 AM * Via Winslow

WEEKEND CONSTRUCTION SCHEDULE

SEATTLE/BREMERTON
(Sat., Sun & Holidays)

Lv. Seattle	Lv. Bremerton
6:50	5:40 AM
8:00	8:00
9:10	9:15
10:20	10:25
11:45	11:30
1:35 PM	1:00 PM
2:30	2:45
4:05	3:45
5:00	5:15
6:25	6:05
7:15	7:30
9:30	8:20
11:45	10:35
	12:50 AM

* 2:10 * Via Winslow

EDMONDS-KINGSTON
(North Kitsap)
Approx. Crossing—30 Min.
WEEKDAY SCHEDULE

Lv. Edmonds	Lv. Kingston
5:50 AM	5:10 AM
7:10	6:30
8:40	7:50
9:25	8:40
10:10	9:25
10:50	10:10
11:30	10:50
12:10 PM	11:30
12:55	12:10 PM
1:40	1:40
2:30	2:25
3:10	3:10
3:50	3:50
4:30	4:30
5:10	5:10
5:50	5:50
6:30	6:30
7:20	7:15
7:55	F 8:00
8:40	F 8:35
9:15	F 9:20
10:00	F 9:55
10:35	
11:45	11:10

F Fridays Only

EDMONDS-KINGSTON
(North Kitsap)
Approx. Crossing—30 Min.
WEEKEND SCHEDULE
(Includes holidays)

Lv. Edmonds	Lv. Kingston
NS 5:10 AM	NS 5:10 AM
NS 6:30	NS 6:30
7:10	
8:40	NS 8:40
9:25	NS 8:25
10:10	NS 10:10
10:50	NS 10:50
11:30	NS 11:30
12:10 PM	NS 12:10 PM
12:55	NS 12:55
1:40	NS 1:40
2:30	NS 2:25
3:10	NS 3:10
3:50	NS 3:50
4:30	NS 4:30
5:10	NS 5:10
5:50	NS 5:50
6:30	NS 6:30
7:20	NS 7:15
7:55	S 8:00
8:40	S 8:35
9:15	
10:35	9:55
	11:10
11:45	

NS Does not operate on Sundays and holidays
S Sundays Only

PORT TOWNSEND-KEYSTONE
(Olympic Pen., Whidbey Is.)
Approx. Crossing—30 Min.
WEEKDAY SCHEDULE
(Mon.-Thur. except holidays)

Lv. Pt. Tnsnd.	Lv. Keystone
7:00 AM	7:45 AM
8:30	9:15
10:00	10:45
11:40	12:30 PM
1:15 PM	2:00
3:00	4:00
5:00	6:00

Fog, high winds and low tides may, at times, delay or shut-down the Port Townsend/Keystone route. Please call (206) 464-6400 for current information.

PORT TOWNSEND-KEYSTONE
(Olympic Pens. Whidbey Is.)
Approx. Crossing—30 min.

WEEKEND SCHEDULE
(Fri., Sat., Sun. & holidays)

Lv. Pt. Tnsnd.	Lv. Keystone
7:00 AM	7:45 AM
8:30	9:15
10:00	10:45
11:40	12:30 PM
1:15 PM	2:00
3:00	4:00
5:00	6:00
7:00	8:00
9:00	10:00

MUKILTEO-CLINTON
(Columbia Bch.-Whidbey I.)
Approx. Crossing—20 Min.

Lv. Mukilteo	Lv. Clinton
W 5:05 AM	W 4:45
6:00	5:30
W 6:30	W 6:00
7:00	6:30
W 7:30	W 7:00
8:00	7:30
8:30	8:00
9:00	8:30
9:30	9:00
10:00	9:30
10:30	10:00
11:00	10:30
11:30	11:00
12:00 N	11:30
12:30 PM	12:00 N
1:00	12:30 PM
1:30	1:00
2:00	1:30
2:30	2:00
3:00	2:30
3:30	3:00
4:00	3:30
4:30	4:00
5:00	4:30
5:30	5:00
6:00	5:30
6:30	6:00
7:00	6:30
7:30	7:00
8:00	7:30
8:30	8:00
9:00	8:30
S 9:30	S 9:00
10:00	9:30
S 10:30	S 10:00
11:00	10:30
12:10 AM	11:35
1:00	12:30 AM

WEEKENDS AND HOLIDAYS

Except as noted weekend schedules begin at 12:01 AM Saturdays and holidays and end at 12:00 Midnight on Sundays and holidays. Weekday schedules are in effect from 12:01 AM Monday through 12:00 Midnight Friday except holidays.

Holidays covered in this schedule include:
Memorial Day May 25

FARES

Information about fares and tolls is contained in a separately published brochure, available from most terminals. Price information can also be obtained by calling WSF at 464-6400.

NOTE THIS SCHEDULE EXPIRES JUNE 22--NEW SCHEDULE IS SIMILAR

Just like a woman!!! Changed my mind!
The July calendar is in this issue due to so many activities that need to be manned(or womaned). Please note that the Des Moines Parade is July 25, not July 23. In July I will print the August calendar, and so on through the year. Joyce KB7BGW

NOTE OF BEREAVEMENT
Curley, Curley's Engraving, died on Thursday, May 28, of cancer. He will certainly be missed by us all. He always had something witty to say at all the flea markets and hamfests. His wife will continue with the business. A card was sent from the club. The Board

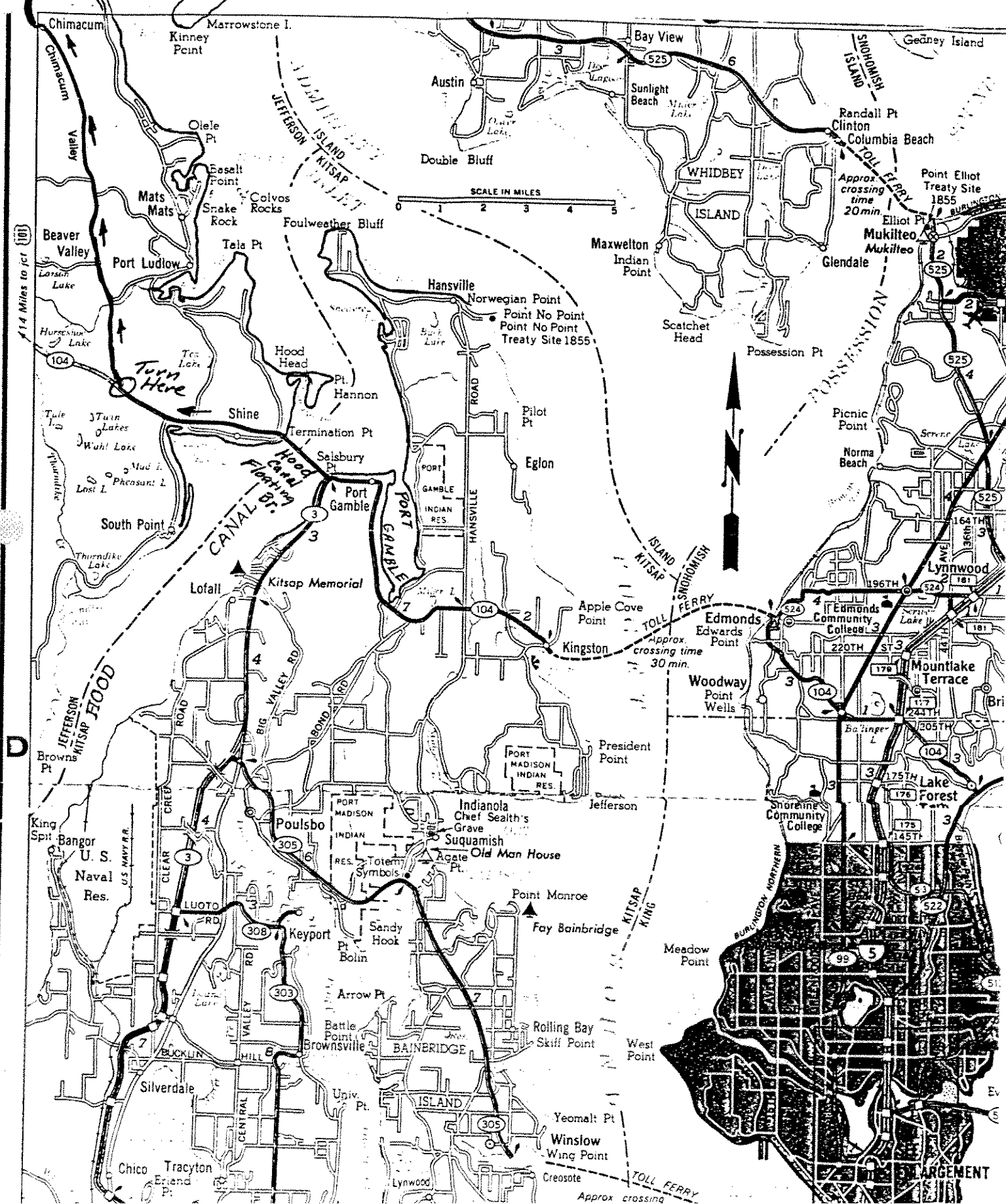


AN
ARRL
AFFILIATED
CLUB

The MIKE AND KEY Amateur Radio Club of Seattle (approx 80 members) is anxious to expose as many Boy (and Girl) Scouts as possible to Amateur Radio.

Many of their members are willing to attend Scout meetings to talk to young people about becoming Amateur Radio Operators. Many of their members are also willing to become Merit Badge Counselors. For more information from the Mike and Key Club call: Rick Beatty (president) 775-9196 or Victor Zumbunnen (vice president) 824-2698.

To Pt. Towasand
Indian Is.
North End of Marrowstone Is.
Fort Flagler State Park



FIELD DAY CHECK - LIST

(Revised and Updated Ver. 1.2)

OPERATING

_____ TRANSMITTER
 _____ RECEIVER
 _____ POWER SUPPLY
 _____ SPARE FUSES FOR ABOVE
 _____ EXTENSION CORDS
 _____ TRANSMATCH.
 _____ SWR BRIDGE
 _____ OPERATING LIGHTS
 _____ F.C.C. LICENSE
 _____ LOG SHEETS
 _____ DUPE SHEETS
 _____ SCRATCH PAPER
 _____ LOTS OF PENCILS
 _____ PENCIL SHARPENER
 _____ MICROPHONE
 _____ KEYS, BUG, OR KEY
 _____ CLOCK
 _____ OPERATING TABLE
 _____ CHAIRS
 _____ HEADPHONES
 _____ ANTENNAS
 _____ TOWER OR MAST
 _____ GUYLINE - ROPE
 _____ GUY ANCHORS "REBAR"
 _____ ROTOR WITH CABLE
 _____ FEEDLINE WITH CONNECTORS
 _____ EXTRA FEEDLIN
 _____ EXTRA CONNECTORS
 _____ BARREL CONNECTORS
 _____ MECHANICS TOOL BOX (WITH NUTS & BOLTS)
 _____ ELECTRONICS TOOL BOX (WITH SOLDER
 _____ AND SOLDERING IRON)
 _____ AMERICAN FLAG FOR TOWER
 _____ CHRISTMAS TREE LIGHTS FOR TOWER
 _____ RIBBON FOR GUY-LINES
 _____ SLEDGE HAMMER
 _____ HARD HAT
 _____ CLIMBING BELT
 _____ 146.58 SIMPLEX RIG
 _____ BACKUP RIG - COMPLETE
 _____ SPARE LIGHT BULBS
 _____ GROUND STAKE, WIRE, AND CLAMPS
 _____ ELECTRICAL TAPE
 _____ DUCT TAPE

PERSONAL

_____ FOOD & UTENSILS
 _____ SNACKS
 _____ RAIN GEAR
 _____ WARM COAT
 _____ BOOTS
 _____ GLOVES
 _____ TOILETRIES
 _____ GAS LANTERN
 _____ STOVE
 _____ FUEL FOR ABOVE
 _____ FLASHLIGHT
 _____ EXTRA BATTERIES
 _____ MATCHES
 _____ SLEEPING GEAR
 _____ NON-ELECTRIC CLOCK
 _____ FIRST AID KIT
 _____ TRASH BAGS
 _____ WATER
 _____ INSECT REPELENT
 _____ SUN SCREEN LOTION
 _____ CAMERA
 _____ FILM FOR ABOVE
 _____ CASH FOR CAMP FEE
 _____ DRUGS FOR THOSE
 _____ MALADIES YOU ARE
 _____ SUCEPTIBLE TO

_____ mik PAPERS
 _____ READING MATERIAL
 _____ WEED WACKER
 _____ BATTERY CHARGER
 _____ 8 WAY RECEPTACLE
 _____ 50' MEASURING TAPE
 _____ XYL ? KIDS

ALSO: Leave phone numbers of hams who are not going to Field Day that can contact the site in case of an emergency. Be certain to bring plenty of water as there is NONE at the operating site!!!

THE SEASIDE HAMFEST TREK

It was 12:00 noon and we were on our way. The Seaside Trek had begun. It was a nice day for a drive. Jim WA7LNQ and Pati WB7VJA met up with Chuck WA7EBH and Joyce KB7BGW on the freeway with Carl W7PRW and Millie somewhere in between. The hunger pangs took over, so we stopped at Hawks Restaurant for lunch where we were joined by Raleigh WB7WNF and XYL. Good food! You don't go away hungry. Back on the road, again--I have never seen so many police cars and motorcycles. We took a different route this year that supposed to cut off 40 miles. According to Chuck you get tired of the concrete jungle. We went hiway 12 through Montesano and then down 101. It was a really nice, peaceful and scenic drive when Chuck and Jim didn't have the needle buried on the speedometer. We arrived about 4:00, picked up some groceries, etc., and our registrations at the convention center. Jim checked out his and Hal's tables N7NW and made a pass through to see what items were available on the tables. Then off to our Condo at The Tides. I didn't know there were so many other motels there. Ours was really roomy. Chuck K7CHV and Lorie KA7ZPK would join us later. We would draw straws to see who got the loft upstairs with the two double beds versus the queen size private room downstairs. Soon it was time for dinner--couldn't find the one I heard about in Cannon Beach so went to the Crab Broiler where Joyce new one of the cooks. Wouldn't you know, they ran out of Prime Rib - oh well, seafood looked good, too. By now the rain had come. The dinner was really good. Mama and her kittens (literally) were the entertainment for the evening, as well as trying to find firewood for the fireplace in our condo. The next morning Jim was up at the crack of dawn, anxious to get going. Give me a break!! This is supposed to be a vacation. The guys took off for breakfast and set up Jim's table. A guy from LaPine, Oregon, Ray KA7WXH, called me and I wormed my way to the front where he was standing to get in. Brings back memories of our Flea Market. Made a walk around the booths and headed for town. It didn't pay to carry an umbrella, it just turned inside out from the wind. Back to the convention where a group gathered for lunch at the Pizza Parlor. Chopped some more, but not much in mood for it. Headed back to the Motel to rest for dinner.

A large group decided to go to the Crab Broiler, so we called for reservations and they panicked. We went easy on them and went in shifts. This time they had plenty of prime rib. Len W7MCU didn't believe his was the large cut, though, so he ordered dessert. Where did he and Mike WB7AYU put it all? One guess! A nice visit with the group at our condo afterwards. Chuck had his new radios put together by then and Joyce had read the manual for her handi talkie all the way thru, a Kenwood 215-A. Boy did it storm that night. Ask Chuck about the flying plastic cups the first morning - he thought he was having a problem. We had left a window open and they were sucked out by the wind and were floating around. Len said even the sea gulls weren't flying it was so bad. We still had fun and enjoyed everyone's company. Dick N7PK won one of the hourly drawings. The weather was still crummy. We counted 27 club members and 5 XYLs at Seaside. That's a good turn out. I may have missed a few. I never did see Mike WA7UVJ and Diane. It cleared up for us for the drive home. I was exhausted. Jim didn't come back with any radios - boy am I glad! There's no more room in his car. He doesn't need any more mikes to try to find which radio they belong to. Maybe I should invent a microphone that you can integrate into all of his radios. It's really fun to watch him pick up 2 or 3 before he gets the right one! Well, everyone, 73's until our next event, Field Day. Pati WB7VJA

BOWLING PARTY

May 8th turned out to be a nice spring evening, not the kind you go out bowling on. However, 14 brave souls went indoors to the Sun Villa Lanes, and risked injury to body and pride. Actually several others showed up for moral support also. Funny thing though, they wouldn't bowl but had lot's of advice for the rest of us.

Winners !!!

Ladies Hi-30, Carolyn - KA7TGL
Ladies Hi-10, Darlene - xyl WA7RJT
Mens Hi-30, Chuck - WA7RJT
Mens Hi-10, John - WA7HQG

Afterwards, we went out for pizza and excuses. Good time had by all. If you missed it, to bad. Thanks to all who did come. See you there next time. Mike, WA7UVJ

Board Meeting 6-2-87

WA7UVJ NU7Z WB7TBR KB7ZS W7VIH N7AMX N7NW
K7YR WA7LNQ K7PZX WA7EBH KB7BGW K7PHZ K7ND

Items Discussed:

- 1) Need net control people to take 220mhz net once per month
- 2) Patches - tabled per too expensive
- 3) Membership roster
- 4) special interest groups within club
- 5) Newsprint
- 6) Check into Special Service eligibility
- 7) Visits to other club's meetings
- 8) Field Day

Committee Reports:

- 1) Training - info item in TOTEM newsletter to scout leaders
- 2) Membership applications approved Mike, KA7CSE and Herschel, WA7IMC
- 3) Treas - assests=\$8485.73
- 4) Radio Officer(K7YR) - Need 2/3 people to act as hosts for 2m rprr during the day
- 5) Activity - need picnic chairperson

General Meeting 5-16-87

Called to order @ 1000 by NU7Z w/pledge

Introductions - 43 attendees - 5 visitors

New members - Joyce KB7AIO and Jerry WA7BUY

Activities - Picnic chairperson needed

Field Day is June 27/28

Treas - assests=\$8,573.55

Radio Officer - need net manager - 2m to 220mhz link progressing

Relay - Joyce Stroehrer is new editor

Public Service - see calender of events in relay

By-law/Constitution Com - send ideas to KB7R, KB7ZS, WA7EBH

Friendship Award - see Steve, K7KOT for info

Old Business:

Minutes for Apr approved

Need someone to collect newsprint

New Business:

K7YR motion/seconded to approve 1987 budget - passed

Westlink can be heard by calling 364-3636

Closed @ 1135

CLASSES

The school year is winding down and so are the Mike & Key training classes. While not the first time the Club has sponsored training, it was a new site with high potential and visibility, Highline Community College, and the results were encouraging.

We held two Novice sessions during the fall and winter quarters and the Tech/Gen class has just finished up. After the numbers are counted, we probably ended up with about 20 new Novices, of which several have gone to Technician already. The latest class results won't be available for a while, but we are optimistic. We can't give them the test like Novices so we hope they get to an exam session soon.

I'd like to express my thanks to all that volunteered to teach. It wasn't easy to go out on those cold winter nights and these nice springs evenings. They all deserve a hand. Warren-K7MRH, George-N7BT, Vic-WB7TBR, Bob-K6PQJ, Hal-N7NW, and Jim-K7ND. They gave up a lot of time to help bring new blood to the Ham ranks. Thank You. -Mike, WA7UVJ

MIKE & KEYER

Well, for the most part this project is past the design stage. If you didn't get a chance to see it at the club meeting, I'll give you a quickie discription.

The Mike & Keyer is a micro-processor based (280) memory keyer. It has eight message storage locations, each holding 2000 bits of information. (That means about you can practically store a whole contest QSO in one location.) It has a Liquid Crystal Display for operator instructions as well as a real time clock. Message location #8 includes a loop/cycle function so that you can repeat a message at precise intervals depending upon your need.

The internal program takes up 2 Kilobyte of ROM space. That's a lot of programming! I HOPE to start a series of construction articles next month. If interested, keep a look out. If possible, we might get a chance to try it out at Field Day. Take a look at the next Club meeting, I'll bring the prototype again.

Mike, WA7UVJ

Any man can learn to do anything that any other man has done if he will apply himself. Charles M. Schwab

Well the summer Seafair parade time is upon us again. I was recently asked to give a quick rundown on what we actually do at a parade.

Your duties at a parade consist of observing, communicating and helping to keep things running smoothly. For those not familiar with a parade structure there are basically four sections that make up a parade. First is the assembly area where everything is put into its proper place. Next is the route where it goes down the street. Next is dispersal where the units disband and go home. The fourth area is the speciality areas, ie. tow vehicles, review stand, TV, etc..

Each element is an important part of the overall success of the parade. If assembly doesn't do their part, that screws up the announcers, if dispersal goofs up that affects the whole route, if the route people don't do their job the public doesn't get to see a parade. If the special groups don't do their job then other sections have problems. So you see every position has a very important job, and just because you may end up in one spot rather than another doesn't mean that you are any less important.

I also try and place a person in the same location that they were in the year before, unless otherwise requested, since they have a greater knowledge of the particular problems and requirements than a new person would.

Some people say that they never do anything, well if everything goes according to plan, which rarely happens, there is not much to do. But when all heck breaks loose its nice to know that there are people out there who can take control and right the problem.

Some people say they are afraid of coming and helping out because they may goof something up--HOGWASH--. Come to the district parades and learn what goes on prior to the big one "TORCHLIGHT". If you are new at the game, I may put you with someone for a learning session. Don't be afraid to come out and enjoy the parade season, bring the family and have some fun. If you don't have a portable radio, come anyway, we have spares. 220 only, we need you too.

SO COME ON OUT.

Here is a list of the 1987 SEAFAIR PARADES:

Sun. July 12	12 noon	Kent	146.58
Sat. July 18	8 am	Redmond	146.58
Sat. July 25	4 pm	DesMonies	146.58
Sun. July 26	5 pm	Chinatown	146.58
Mon. July 27	5 pm	U. Dist.	146.58
Wed. July 29	5 pm	Greenwood	146.58
Thu. July 30	5 pm	Kent (car)	146.58
Fri. July 31	5 pm	TORCHLIGHT	146.36-96 Rptr.
Sat. Aug. 1	5 pm	Lakecity	146.58

So come out and help your community, and ham radio while having a great time.

Thanks for your help
Chuck Stroehrer WA7EBH
392-5303 home

RECIPROCAL AGREEMENTS

Good news with regard to international cooperation have been received from several member societies. Reciprocal licensing/operating agreements were recently signed by the following countries: Australia and Japan; France and Japan; and Cyprus and the United States. IARU Newsletter

ACTIVITIES

June equals Field Day. If you've never been to one, you're missing something. I know because I'd never been to one in 12 years of hamming. I'll never miss another if possible.

Mike & Key Field Days are above the average. The site makes the difference. Fort Flagler sits on the water and the signal gets a good start. When not on the air there is the park for fun. Come support the Mike & Key Field Day effort. Jim, K7PHZ is chairman.

July is the height of summer fun. Frankly, I don't have anything planned for activities and it may remain that way.

August brings the annual picnic. We need a picnic committee. They get to decide places and things. Any volunteers? Also in August will be the Tacoma Hamfair. It's the weekend after the Club meeting, August 22-23.

September we are having a transmitter hunt. It'll be after the club meeting Sept. 19. Rick, NU7Z has tackled the job of Fox. The rest of you need to pair up into teams. How about an "experienced" hunter with a neophyte. Time to pass on some of that knowledge.

Got an idea for an activity? Let me know.
Mike, WA7UJJ



MIKE AND KEY JULY 1987



S M T W T F S

			1 TIM, W7QMI, HAS "WESTLINK" CALL 634-3636 TO HEAR	2	3	4 INDEPENDENCE DAY
5	6 M&K UHF NET 1930 HRS /224.12	7 BOARD MEETING 1930 AT QTH OF: Newsletter deadline	8	9	10	11
12 "GRAPE NUTS" BIKE FESTIVAL. CALL WATYIG 745-5596 TO ASSIST.	13 M&K UHF NET 1930 HRS /224.12	14	15	16	17 	18 CLUB MEETING. COFFEE AT 0930. MEETING STARTS AT 1000 - BRING A FRIEND AND NEWSPAPERS!!
19 SEAFAIR ANNUAL TRI-ATHLON AT SEWARD PARK (7:30AM) CALL K6DOW 271-5314	20 M&K UHF NET 1930 HRS /224.12	21	22	23 DES MOINES SEAFAIR PARADE (4PM) CALL WATEBH 392-5303	24	25
26 CHINATOWN SEAFAIR PARADE (5PM) CALL WATEBH 392-5303	27 M&K UHF NET 1930 HRS /224.12	28 U-DISTRICTR SEAFAIR PARADE (5PM) JULY 27 CALL WATEBH 392-5303	29 GREENWOOD DISTRICT SEAFAIR PARADE (5PM) CALL WATEBH 392-5303	30	31 SEAFAIR TORCH- LITE PARADE IN SEATTLE (5PM) CALL WATEBH 392-5303 ALSO PEPSI 10K RUN	

* AAA	*	*	*	*	*	*	*****	***** MIKE & KEY ROSTER FLUS	*	*	*	*	*	*	****
KB7AID	N	87	Joyce Van Tuyl	P.O. Box 23	Pacific, Wa. 98047	939-8875	05/88								
N7AHX	G	76	Karl DeJong	220903 NE 77th	Redmond, Wa. 98052	868-0457	06/87								
WA7AVC	G	80	Gordon Cadv	8216-38th NE	Seattle, Wa. 98115	527-1387	11/87								
7AVD	G	79	Debra DeJong	20903 NE 77th	Redmond, Wa. 98052	868-0457	01/88								
N7ANW *		73	Ernie Davis	4209 SE 101st	Portland, OR. 97266	(503)760-2130	12/87								
WB7AYU	T	75	Mike Cross	5803 SW Hanford	Seattle, Wa. 98116	935-2688	08/88								
KB7B6W	N	87	Joyce Stroehrer	19415 SE 21st	Issaquah, Wa. 98027	392-5303	01/88								
W7B8G	A	86	Ellis Hamer	1402 - 22nd NE, #310	Auburn, Wa. 98002	939-4895	09/87								
KA7BOY		82	Bill Kissinger	19811 SE 370th Pl.	Auburn, Wa. 98002	833-7776	06/87								
N7ET *	E	79	George Boross	2333 W. Irvington Rd. #17	Tuscon, AZ 85714	859-0392	03/88								
W7BUN *	A	79	Jerry Seligman	12306 - 80th E.	Puyallup, Wa. 98371	845-7562	03/88								
WA7BUY	T	87	Gerald Sampont	8806 - 116th NE	Kirkland, Wa. 98033	827-4480	05/88								
WA7C	E	87	Don Wilbrecht	5211 - 26th SE	Lacey, Wa. 98503		05/88								
K6DGM	A	85	H. Wayne Moddison	16646 SE 134th	Renton, Wa. 98056	271-5314	02/88								
WB7DVX	T	75	Linda Holt	Rt. 1, Box 105A	Manson, Wa. 98831	(509)687-9429	01/88								
NX7E	E	87	Mike Cummings	622 N. 60th	Seattle, Wa. 98103	784-7575	02/88								
WA7ERH	A	70	Chuck Stroehr	19415 SE 21st.	Issaquah, Wa. 98027	392-5303	01/88								
WA7EJY	T	71	Archie Brush	225516-38th S.	Seattle, Wa. 98188	878-2833	01/88								
WA7EKH	T	71	Ray Leslie	13517 - 117th NE	Kirkland, Wa. 98033	821-4188	01/88								
WA7ELI	T	71	Lew Rambo	11605 NE 150th Pl.	Bothell, Wa. 98011	488-9120	07/87								
W7EVS	E	87	Monty Wales	27603 W. Valley Hwy.	Kent, Wa. 98032	854-2531	03/88								
WA7GHZ *	T	72	Ralph Cornell	21211 - 4th Ave, So.	Seattle, Wa. 98148	878-8119	01/89								
W7GFW *	A	74	Jim Strang	387 Dry Lake Rd.	Camano Island, Wa. 98292	387-9510	01/88								
N7GVX		84	Floyd Boswell	12137 SE 276th Ct.	Kent, Wa. 98031	631-9394	06/87								
N7HKL	T	86	Ted C. Van Tuyl	P.O. Box 23	Pacific, Wa. 98047	939-8875	09/87								
WA7H8G	T	71	John Rehncstrom	9621 - 9th NW	Seattle, Wa. 98117	783-2489	01/88								
WA7HWX *	T	85	Jan Hedberg	17729 North Park Pl. N.	Seattle, Wa. 98133	542-8975	04/88								
N7IL	A	87	Ivan Lee	15631 - 12th S.	Seattle, Wa. 98148	242-6501	03/88								
7IVM	G	86	William E. Bennett	625 - 109th SE	Bellevue, WA 98004	451-9096	01/88								
7J	E	87	Don Richards	17410 SE Maple Val. Hwy.#106	Renton, Wa. 98058	255-1639	02/88								
W7JIE	E	75	M. L. (Gib) Gibson	1215 N. 28th Place	Renton, Wa. 98055	226-4222	04/88								
W7JWJ	E	74	Harry Lewis	10352 Sandpoint Way NE	Seattle, Wa. 98125	523-9117	02/88								
W7JWP	A	84	Arnold Larson	15348 - 70th NE	Bothell, Wa. 98011	488-7463	05/87								
WA7K8K	G	74	Don Reabaugh	20175 - 45th NE	Seattle, Wa. 98155	362-9189	01/88								
W7KCY	A	76	Dick Dietsch	16807 NE 89th	Redmond, WA. 98052	885-6559	01/88								
K7KOT	A	70	Steve Tillet	1642 Browns Pt. Blvd.	Tacoma, Wa. 98422	927-5456	01/88								
KB7LM	E	77	Bob Rulifson	14232 SE 23rd	Bellevue, Wa. 98007	746-5192	12/87								
WA7LND	E	75	Jim Sutton	3516 SW 343rd	Federal Way, Wa. 98023	927-7088	07/87								
W7MCU	E	84	Len Westbo	10528 SE 323rd	Auburn, Wa. 98002	833-8434	11/87								
K7MRH	G	84	Warren Nixon	26908 Avon Court	Kent, Wa. 98032	854-9028	02/88								
NX7N	E	86	Robert Anderson	12029 SE 220th Pl.	Kent, Wa. 98031	631-8330	11/87								
K7ND	E	70	Jim Christiansen	990 Lummi Dr.	Fox Island, Wa. 98333	549-4062	07/87								
WA7N1W	T	72	Dick Radford	3003 - 169th NE	Bellevue, Wa. 98008	883-0662	01/88								
KD7NM	A	80	Bob Donnell	P.O. Box 45645	Seattle, Wa. 98145	631-2111	02/89								
N7NW	E	74	Hal Goodell	987 Lummi Dr.	Fox Island, Wa. 98333	549-4178	01/88								
WN7NXC *	A	74	Les Jacobs	14300 NE 103rd	Bothell, Wa. 98011	821-8839	01/88								
KE7OD	A	87	Larry Crowley	13707 SE 18th	Bellevue, Wa. 98005	746-2513	02/88								
WB7DEV	A	85	Dewey L. Hee	537 North 137th	Seattle, Wa. 98133	365-0181	05/87								
WA7DXN *	G	80	Bob McGuihuey	14840 - 74th Pl. NE	Bothell, Wa. 98011	488-7841	05/87								
K7PFR	G	71	John Becker	1601 W. James Lane #K6	Kent, WA. 98032	854-3659	01/88								
K7PHZ	A	71	Jim Carpenter	2125 Elm St. SE	Auburn, Wa. 98002	833-9017	03/88								
K6PGJ	E	86	Bob Yerkes	4600 Davis Ave. S. #C-102	Renton, Wa. 98055	226-3688	07/87								
W7PRW	G	70	Carl Butler	16831-48th S.	Seattle, Wa. 98188	242-6297	01/88								
K7PZL	G	70	Ken Jackson	18944 - 33rd South	Seattle, Wa. 98188	246-7354	09/87								

W7DCV	84	Hap King	451 - 145th Pl NE	Bellevue, Wa. 98007	747-0441	07/87
W7DBI	86	Jennie Elder	7579 S Laurel	Seattle, Wa. 98175		11/87
W7DBF	A 74	Mary Lewis	10352 Sandpoint Way	Seattle, Wa. 98125	523-9117	02/88
KA7GHE	86	Frank Krieger	3410 S. 166th	Seattle, Wa. 98186	243-5232	06/87
K7DMJ	T 77	Tim Schneebeck	4522 Brooklyn NE, #103	Seattle, Wa. 98105	547-0404	04/87
KB7E	E 79	Joe Fannin	108 - 130th Pl. NE	Bellevue, Wa. 98005	454-4991	02/88
WA7RJT	A 72	Chuck Brazier	13210 - 231st SE	Issaquah, Wa. 98027	392-3764	01/88
WA7RJM	T 74	Chris Holt	Rt. 1, Box 105A	Manson, Wa. 98831	(509)687-9429	01/88
KE7RK	A 87	Floyd Dunn	26151 - 195th Pl. SE	Kent, WA. 9802		01/88
KA7SEH	T 84	Tom Phelan	16460 - 51st South	Seattle, Wa. 98188	243-5862	04/88
W7SRI	87	Chuck Northcutt	353 S. 116th	Seattle, Wa. 98168	243-6432	03/88
WA7T6I	A 74	Gene Jacobson	7334 - 126th NE	Kirkland, Wa. 98033	822-3931	01/88
WB7TBR	E 85	Victor Zumbrunnen	22032 8th Ave. South	Des Moines, Wa. 98188	824-2098	02/88
KA7TGL	T 87	Carolyn Pasquier	P.O. Box 237	Kirkland, Wa. 98083	827-4977	04/88
W7TWU	G 87	Dick Eller	933 SW Austin	Seattle, Wa. 98106		03/88
WA7UEW	T 73	Dick Lundstrom	34022 - 43rd S.	Auburn, Wa. 98112	838-9559	01/88
KE7UU	A 87	Thomas Barrett	108 N. 57th	Seattle, Wa. 98103	782-8067	02/88
WA7UVJ	E 85	Michael Dinkelmann	637 -2nd South	Kent, Wa. 98032	854-4031	05/87
WA7VEB	G 75	Bob Losey	3425 S. 176th, #132	Seattle, Wa. 98188	431-8540	01/88
WA7VEH	87	William Bingham	11605 SE 45th Pl.	Bellevue, Wa. 98006	746-6024	01/88
W7VIH	G 79	Pat Shimmers	6412 - 17th NW	Seattle, Wa. 98107	783-7610	04/88
WB7VJA	G 79	Patti Sutton	3516 SW 343rd	Federal Way, Wa. 98003	927-7088	12/87
KA7VNU	T 87	Glen Harston	26860 SE 411st	Enumclaw, Wa. 98022	825-1870	04/88
WA7WKT	T 74	Arnie Skoog	30617 - 2nd SW	Federal Way, Wa. 98003	839-2501	01/89
WB7WNF	T 79	Raleigh Elkins	13506 Ceder Ct. East	Sumner, Wa. 98390	897-8090	12/87
K7WTG	G 70	Pete Hedberg	20904 NE 77th	Redmon, Wa. 98052	868-1563	01/88
KA7WJK	T 87	Phil Kester	16118 - 195th Pl. NE	Woodinville, Wa. 98072	788-5884	03/88
NF7X	E 86	Jerry Logan	226 - 77th Pl. SW	Everett, Wa. 98023		11/87
K7YR	E 72	Ken Rau	5430 Lake Alice Rd. SE	Fall City, Wa. 98024	222-7711	01/88
NU7Z	E 85	Rick Beatty	23115 - 84th W.	Edmonds, Wa. 98020	775-9196	12/87
W7ZLW	A 78	Vern Nelson	16812 NE 107th	Redmond, Wa. 98052	882-2907	03/88
KA7ZDW	N 87	Kathy Kester	16118 - 195th Pl. NE	Woodinville, Wa. 98072	788-5884	04/88
KB7ZS	A 80	Jack Burrell	2432 - 138th SE	Bellevue, Wa. 98005	746-4176	09/88
KA7ZYX	T 87	Beth Sherwood	1830 Carpenter Rd. SE #13	Lacey, Wa. 98503	456-6676	04/88
ZZZ		Ethel Brown	2200 Southwest Barton	Seattle, Wa. 98126		Life
ZZZ	* 74	Dianna Becker	21112 NE 60th Place	Redmond, Wa. 98052	668-7915	01/88