



SEATTLE, WASHINGTON

# K7LED RELAY

VOLUME 10

JANUARY 1982

NUMBER 9

- January 16      General Membership Meeting, 10 am  
Come to the meeting and take a trip  
to Hawaii!
- February 27     General Membership Meeting, 10 am  
Be aware the this meeting will be  
on the fourth Saturday this month  
ONLY!

**MIKE AND KEY AMATEUR RADIO CLUB**  
4522 Brooklyn Ave. N.E., Apt. 316  
Seattle, WA 98105

ADDRESS CORRECTION REQUESTED

IT'S DUES TIME



FIRST CLASS

MIKE AND KEY GENERAL MEMBERSHIP MEETING - 12/19/81

Ken, K7YR reports that the six meter repeater is working better. If you aren't on six yet, consider giving it a try. Harry, W7JWJ reports that he is starting Amateur Radio classes again at North Seattle Comm. College on Jan. 4. Next the club had a very interesting and informative microwave demonstration presented by Len Westbow, W7MCU. Len was assisted by Gene, WA7TAI who demonstrated their 10,250 MHz (+-?) full-duplex transceivers. The club got back to business by selecting a nominating committee. This year's committee is headed by Pete, K7WTG, and to be assisted by N7AVO, N7AMX, WA7TAI, WA7TIB, and WA7ELI. Contact one of these people if you are interested in running for a club position. The February meeting has been re-scheduled for the fourth Saturday, February 27th. The March meeting will be mainly occupied by the Election of Officers. The annual banquet has been tentatively scheduled for the 10th of April. The program for the meeting will be made by Bruce Trimble, AA7S, and will be slides from his recently completed tour in the Peace Corps in Africa. Field Day is being chaired by Jim, W7GPW, and he is looking for persons to assist him. Bill, K7MWC presented the club with his proposal for a club flea market, and was given approval to proceed with preliminary advertising

Before the  
Federal Communications Commission  
Washington, D. C. 20554

By the Chief, Private Radio Bureau:

1. The Commission by its Chief, Private Radio Bureau, acting under delegated authority, has under consideration a petition for rulemaking in the Amateur Radio Service, filed August 26, 1981, by Michael S. Bilow of Cranston, RI. The petitioner requests that Technician Class licensees be permitted to utilize "crossband" repeaters, a type of operation which the petitioner believes to be prohibited by Part 97. The petitioner further believes that Docket 19852, Amendment of Part 97 to provide for the Amateur Satellite Service, set a precedent which would allow this type of operation.

2. In fact, the Commission, in Docket 19852, paragraph 23, specifically addressed this matter and stated that "no amendment to the Rules was necessary to make this clarification which applies to repeater operation as well as space operation. As long as the control operator of the transmitting station is authorized for the frequency privileges being used, the fact that the station may retransmit from frequencies authorized to both higher and lower operator classes is of no consequence. For example, there is no prohibition, per se, for those types of operations where retransmission is permitted (repeater, auxiliary and space) to retransmitting the signals from a station with a Technician Class control operator on frequencies not authorized for the Technician Class."

3. Accordingly, in view of the foregoing, the Commission, by its Chief, Private Radio Bureau acting under authority delegated to him by Section 0.331 of the Commission's Rules finds this petition to be moot and ORDERS That it is DISMISSED.

## PRESIDENT'S CORNER

1982 is upon us and with the coming of the New Year comes many club activities. The January meeting is our traditional Field Day kickoff meeting. Jim, W7GPW, has consented to be chairman of this years activities. Lets see what can be done to get more club member involvement. --REMEMBER THIS IS A CLUB ACTIVITY.

Just around the corner of the new year comes the time for election of new club officers. Elections will be at the March meeting with nominations being made during the February and March meetings. Pete, K7WTG, is heading up the nomination committee and their first meeting will be January 12. If you have any ideas who you would like to have nominated, please get with Pete or present their names during the open nominations.

After elections of course comes our annual banquet and seating of officers. This years shindig promises to be a good one. The main door prize hasn't yet been purchased but it should be as good as last years IC-2AT which was won by Jim, WA7AHD. Bruce Trimble, just recently home from The Gambia, will present a program complete with slides of his tour with the Peace Corp. Ray, WA7EKH, is arranging for location and date , which will be announced at the January meeting.

Now if this isn't enough activity, we have launched our plans to hold an Electronics Flea Market on March 13th and 14th. Those at the last meeting were briefed on the plans. The board is fully behind this project as it brings us an opportunity to put together an event which will benefit our club in many ways. Due to the time schedule the board has authorized advance mailings but we still need club approval before we continue beyond this point. At the last meeting a show of hands present indicated almost unanimously in favor of the project but a quorum was not present for a formal vote. This will be brought before the membership at the January meeting.

-----SO SEE YOU THERE-----

*Hal W7NW*

HAPPY BIRTHDAY!!!

- 1-Jay Mowry K7BNN
- 7-Bruce Trimble AA7S
- 8-John Becker K7PFR
- 6-Dan Bucher N7COO
- 10-Dick Radford WA7NIW
- 21-Bob Rulifson KB7LM
- 23-Chuck Foltz KB7OS
- 26-B. E. Duchesneau N7DU
- 31-Raleigh Elkins WB7WNF

Have you ever wanted to go sailing? I mean really sailing! Like from Victoria, B.C. to Maui, Hawaii!! Come to the meeting Saturday and see a man and his slides on what it is really like. Loran Hole KK7M will be there to show and tell us about his adventures on the way to the Blue Paradise.

Guess what????? It's FIELD DAY TIME!!!!!! Saturday will be the kick-off meeting for Field Day 1982. Jim Strang will take another shot at chairing the event again this year, come watch his truck go off the cliff. Watch the suspense of who will be crazy enough to take a band this year. Come listen to the same old gripe about the Marrowstone site (it is fantastic try it, you'll like it).

Have you been hearing some strange noises about a Flea Market? I have. It seems that we (the Board and Officers) feel that we wanted something to put some life into the Club. This event is meant to be exciting in the possibilities of how to spend the money we may make. We all enjoy doing the Auction, this Flea Market is meant to be as much fun and hopefully as profitable (at least in the future). We need lots of help and support from you. We need your votes to allow it to go ahead and your voice to spread the word and your body to help in set up and general go-foring.

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CRIME DOES NOT PAY.....IT JUST ALLOWS YOU TO KEEP UP WITH THE COST OF LIVING!!!!!!

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Are you coming to the February meeting? Don't try coming on the third Saturday because we won't be there. Due to circumstances beyond our control the February meeting will be on the fourth Saturday which is the 27th--again the meeting will be on Feb. 27th!!!!!!!!!!!!

FEBRUARY MEETING ON THE 27th, NOT THE 20TH!!!!!!!!!!!!!!!!!!!!

WAS YOUR POWER OUT THE WEEKEND OF NOVEMBER 14TH & 15TH DURING THE BIG STORM???

I WAS PROBABLY THE ONLY ONE AROUND THAT WAS WISHING MY POWER WOULD GO OUT SO I COULD TEST MY ALTERNATIVE POWER BACK-UP SYSTEM.

IT ALL STARTED ABOUT 2 YEARS AGO WHEN I WAS LISTENING TO 20 METERS ONE EVENING ABOUT A HAM WHO WAS OPERATING HIS RADIO FROM HIS ALTERNATIVE POWER SYSTEM IN MICHIGAN. THE POWER WAS GENERATED BY A WINDMILL AND HE WAS GIVING THE DETAILS ABOUT HIS SYSTEM.

I BELIEVE MOST HAM RADIO OPERATORS ARE INTERESTED IN HAVING AN EMERGENCY BACK-UP SYSTEM FOR AT LEAST THEIR RADIOS AND I WAS INTERESTED IN ONE ALSO SO I DECIDED TO LOOK FURTHER INTO A SYSTEM OF MY OWN. I WAS CONSIDERING BUILDING A WINDMILL OF MY OWN DESIGN FOR MY ELECTRICAL GENERATOR BUT AS I LOOKED INTO IT FURTHER AND BEGAN TO STUDY THE DESIGN AND EFFICIENCY OF WINDMILLS, I SOON FOUND THAT IT WAS VERY DIFFICULT TO BUILD ONE SO I BEGAN TO LOOK AT COMMERCIALY MADE WINDMILLS. I SETTLED ON THE FAMOUS "WIND CHARGER" OF THE 30'S THAT IS STILL BEING BUILT TODAY. THIS WINDMILL SEEMED TO FIT THE SIZE I WAS LOOKING FOR AND WAS ALSO IN MY PRICE RANGE. I ORDERED THE WINDMILL A YEAR AGO THIS MONTH. I RECEIVED THE WINDMILL IN KIT FORM, ASSEMBLED IT AND INSTALLED IT ON TOP OF MY GARAGE ABOUT 22' HIGH (THE WINDMILL COMES WITH A 10' TOWER).

TO CREATE A 12 VOLT SYSTEM I BEGAN TO LOOK FOR WIRE TO CARRY THE CURRENT FROM THE GENERATOR DOWN TO A SET OF DEEP CYCLE BATTERIES THAT WERE GIVEN TO ME. I NEXT PURCHASED, FROM THE BOEING SURPLUS STORE IN KENT, ABOUT 100' OF #8 SINGLE CONDUCTOR COPPER WIRE TO CARRY THE CURRENT FROM THE GENERATOR DOWN TO THE BATTERIES. THEN I REALIZED THAT THE TWO BATTERIES THAT I WAS USING WERE TOO FAR GONE TO HOLD A TOTAL CHARGE SO I PURCHASED FOUR 6 VOLT 250 AMP HOUR LEAD ACID BATTERIES AND HOOKED THEM UP IN A SERIES-PARALLEL TO CREATE A 12 VOLT SYSTEM. LATER I BOUGHT TWO MORE BATTERIES TO ADD TO MY SYSTEM TO INCREASE MY CAPACITY TO 750 AMP HOURS.

THE WINDMILL STARTS GENERATING AT 7 MPH AND GOES UP TO 23 MPH BEFORE THE AIR BRAKE COMES ON AUTOMATICALLY TO KEEP THE BLADE FROM OVERSPEEDING. AT 23 MPH IT CHARGES 14 AMPS AT 15 VOLTS WHICH IS ENOUGH TO OVER CHARGE THE BATTERIES IF IT WERE TO CONTINUE TO RUN AT THAT SPEED. IN THE LINES COMING FROM THE WINDMILL TO THE BATTERIES IS A BLOCKING DIODE, OTHERWISE THE BATTERIES WOULD RUN THE WINDMILL LIKE AN ELECTRIC MOTOR.

THE ENERGY I AM PRODUCING IS USED MAINLY FOR THE HAM SHACK BUT I ALSO USE SOME OF IT TO POWER A SECURITY YARD LIGHT. IN THE HAM SHACK I RUN 4 VHF-UHF MOBILES PLUS AN ATLAS 210 FOR HF AS WELL AS AN OPERATING LIGHT. IN THE FUTURE I PLAN TO PURCHASE AN INVERTER TO BE ABLE TO RUN 110 AC OFF MY SYSTEM TO LIGHT MY HOUSE BUT FOR NOW I HAVE A FLORESCENT LIGHT WHICH I CAN PLUG INTO MY SYSTEM.

SO YOU SEE, I WAS HOPING FOR THE POWER TO GO OUT THAT WEEKEND SO I COULD PROUDLY DISPLAY MY YARD LIGHT, HAVE LIGHTS IN THE HOUSE AND OPERATE MY RADIOS ON EMERGENCY POWER ----- ALL DUE TO THAT HAM THAT FIRST GOT ME INTERESTED IN WINDMILLS AND ALTERNATE ENERGY SYSTEMS.

IF ANY OF YOU HAMS ARE INTERESTED IN WINDMILLS OR ALTERNATE HOME ENERGY SYSTEMS I'D BE GLAD TO SHARE MY EXPERIENCES.

GENE  
WA7TAI

## AN ARRL-AFFILIATED CLUB

### OFFICERS

President	Hal Goodell	N7NW	927-7608
Vice President	Harry Lewis	W7JWJ	523-9117
Secretary	Debbie de Jong	N7AVO	888-3012
Treasurer	Mike Cross	WB7AYU	935-2688
Activity Mgr	Karl de Jong	N7AMX	888-3012
Trustee #1	Jim Strang	W7GPW	392-5554
Trustee #2	Gene Jacobsen	WA7TAI	822-3931
Trustee #3	Jim Carpenter	K7PHZ	833-9017
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Trustee #5	Bob Rulifson	KB7LM	746-5192
Radio Officer	Ken Rau	K7YR	392-7954
Editor	Bob Donnell	WA7TRI	634-2820

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### INFORMATION

The Mike & Key net meets each Sunday at 10 AM on 3930 kHz. Novices at 3730 kHz. VHF on 146.58 MHz and K7LED/R on 52.37-53.37.

Club meetings the 3rd Saturday at 10 AM at the Good Neighbor Center at 305 S. 43rd St., across from the Valley General Hosp. in Renton.

The K7LED RELAY is the official publication of the Mike and Key Amateur Radio Club, 23206 SE 53rd, Issaquah, WA 98027. Articles may be quoted in full or in part without prior permission, providing the K7LED RELAY is credited. Deadline is the first of each month.

It has been suggested that the Club consider using a different Field Day site this year. As your Field Day chairman, I regard any member suggestions seriously and, therefore, I'm asking for your opinion.

Marrow Stone Island is a long haul from Seattle. Some time and expense is involved in getting there. The Club might be more successful in introducing new members to the fun and excitement of Field Day if it were easier to observe and participate in the activities. Also contact with the general public might be fostered with a "close-in" site. Travel expense would be reduced and visitors would be free\_d more to come and go.

On the other side, Marrow Stone Island is an excellent radio operating site. the scenery is superb, and there are no business diversions once you are there. Camping and recreational facilities are excellent.

What are your thoughts? A water front site on the North end of Mercer Island has been suggested. We should make a site decision this month.

'82 F/D Chairman  
W7GPW