



# K7LED RELAY

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VOLUME 7

MAY 1979

NUMBER 1

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## CLUB OFFICERS

President	K7KOT	Steve Tillet	927-5456
Vice President	WA7EKH	Ray Leslie	821-4188
Secretary	WA7UEW	Dick Lundstrom	838-9559
Treasurer	WA7ELI	Lew Rambo	488-9120
Activity Manager	N7NW	Hal Goodel	927-7603
President Emeritus	W7JIE	Gib Gibson	226-4222
Trustee No. 1	K7WTG	Pete Hedberg	883-8535
Trustee No. 2	WA7EBH	Chuck Stroehner	746-4122
Trustee No. 3	WN7NXC	Les Jacobs	363-4169
Trustee No. 4	WA7KBK	Don Rambaugh	362-9189
Trustee No. 5	WA7NIW	Dick Radford	883-0662

## K7LED RELAY EDITOR

Vern Nelson, W7ZLW, 16812 N.E. 107th, Redmond, WA 98052 Telephone: 885-0473

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The Mike & Key net meets each Sunday morning at 10 a.m. on 3,930 Khz with Novice check-in on 3,730 and VHF on 146.58 Mhz.

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## NEW MEMBER

Welcome to the following new full member:

Pat Shinnors  
6412 17th Avenue, N.W.  
Seattle, WA 98107

## HELP!!

The RELAY editor needs a typist. I need someone with a good typewriter to type the paper. Interested? Give me a call at 885-0473, and I will explain the job.

Editor, Vern Nelson

## HIGHLIGHTS OF APRIL BOARD AND BUSINESS MEETING

New officers were elected. They are listed on the first page of this issue of the RELAY.

Dick Lundstrom, WA7UEW, won the club call, K7LED.

Gib reported on a letter received from Don Miller, WA7FIC. This letter is enclosed with the RELAY for your information and comments at the next meeting.

Chuck Stroehrer and the Resolution Committee have set the dates for activities for the coming year. This list will be available to the club members at the May meeting.

Steve Tillett reported that the membership motivation committee is considering several possibilities. There seems to be enough interest in personalized pins to proceed. Additional meetings are to be held with additional ideas to be presented at the next meeting.

John Rehnstrom reported that the possibility of the club obtaining a power generator is in Limbo, but it still looks good.

## MEMBERSHIP MOTIVATION COMMITTEE REPORTING:

The Membership Motivation Committee met again last Tuesday Evening at the Doubletree Inn. Chairman Steve Tillott, K7KOT, arm wrestled Lou Rambo, WA7ELI into accepting the chairmanship for the next season.

Decisions, and suggestions coming from this committee included: Each Committee should publicize by meeting announcements and in the Relay of the scheduled meetings to be held; where, when, etc. The NEXT meeting of the Membership Motivation Committee is 5 June, 7:30PM in the coffee shop at the Doubletree Inn. All are welcome.

Another suggestion for membership contemplation is the changing of the Sunday Morning 75-Meter net from 10AM to 8PM Sunday evenings. Same 3930KHZ just a time change. This would also permit the Mike & Key Swap and Shop to move up to 10AM and establish a set time for Swap & Shop. As it is now the Swap & Shop comes on the air "sometime after" the conclusion of the Club Net. Whats YOUR opinion???

The Membership Motivation Committee will provide a box at all club meetings with some paper so that YOU can drop notes in the box for items for the RELAY. The Committee feels that this may be another method where club members can get information in the paper without much sweat and little bleeding. Give it a try??

Also the Committee is working with the Activities Coordinator to provide a program after the monthly club meetings. These programs may be guest speakers, films, or members with their personal projects. This field has hardly been plowed and the Committee believes that we may find lots of production if we can develop the idea.

## MEMBERSHIP MOTIVATION COMMITTEE REPORTING (Continued)

The criteria for the 5, 10, 15-year awards will be published in the June RELAY. The committee is presently shopping for the personalized pins to be awarded for the longevity awards.

Don't forget the next meeting date & C U there??

## ATTENTION NEW AND PAST OFFICERS

The Executive Board of the Club will meet on 11 May at W7JIE home -- 7 p.m. All past and new officers of the club should attend in order to expedite the transition of business for the club. Take I-405 and go west off Exit 6. Turn left or south on 1st cross-street (Park). Go south 2 blocks to 28th Place. Gib's house is on the corner -- green shake/white trim.

## BITS AND PIECES

K7KOT has finally rebuilt and re-worked his 2 meter station. On air with 8877 finals (1 full gallon) with a pair of F9FT stacked 16 element French made antennas. Sometime till he gets the Az-El controls worked out but will be on Earth-Moon-Earth (EME) work this summer. Watch out Moon-men!!

I'm sure you all saw Elmo WA7YCM at the last club meeting. But did you notice the little package he was guarding with both hands?? It was a new ACCU-KEYER Elmo picked up for the field day CW Station--look out for this new entry in high scores!!

Recently seen on top of Husky Stadium were WA7EBH & WA7ELI installing a 450M relay station for the WR7ABF 450 Rptr on Cougar Mtn. Equipment was used for the Husky Crew Races & Opening day of Yatching Season at U of W. Vertigo & Acrophobia were no problem

DX NEWS!! Hal N7NW worked VK5MC on TWO METERS on April 28....thats DX but Hal did it the hard way by working him via THE MOON!! Took FOUR 16-element beams stacked and a pair of 8874 jugs with a KW of power--but he did it. However, the kicker is that the VK5 was using stacked rhombics and only 150 WATTS! & he only has 2 or 3 days a month for EME work and 20-25 mins per day to do it. Hal says the VK was heard again and his sig was strong and solid while in. Congrats Hal & keep at it!

WA7ELI was organizer of the recent Diabetes Bike-A-Thon held in the state. 46 routes all over the state were organized using 2 & 75 Meters. There were more than 5500 bikers and over 150 hams involved in this excellent community project. Thanks Lew & all who helped.

## FIELD DAY PLANS

It is almost Field Day time and there are still band chairmen in need of help.... You don't have to be into contesting to enjoy this activity of the Mike and Key ARC. Many folks just come out to help with the club effort and enjoy the chance to get away and help the sun tan along (Marrowstone is in the rain shadow of the Olympics).

Below is a list of chairmen for various bands as well as those who are helping with other aspects of Field Day. Contact these chairmen and lend a hand with the feature activity of the year for our club.

Band	Chairmen	Assisted By
80 cw	W7JWJ, Harry	
75 phone	N7AMX, Carl	WA7TAI, K7PHZ, KA7CZI
40 phone	WA7TOM, Dave	WA7HOG, K7MBY, WA7ZUO, WA7RJT, WB7DVX
20 phone	K7CR, Clay	WA7IVO, W7FHZ, K7HF WA7UEW. . . (HELP)
20 cw	WA3WPY, Dan	WB7ETD, WA7YCM
15 phone	K7PER, John	K7WTG, WA7ELI, KB6DZ
15 - 40 cw	K7KOT, N7NW Steve & Hal	
10 phone	K7YR, Ken	W7GPW, WA7KKBK, WN7NXC, WA7TIB
VHF 6 mtrs	WB7OUT, Tom	WA7NIW
Novice	N7PK, Dick	

On-site public relations . . . . W7JIE, Gib  
 Aux power generation and distribution . . . . WB7AYU, Mike  
 Traffic (for ARRL bonus points). . . . WN7NXC, Les

As you can see, there are a lot of openings . . . pitch in . . . and let's finish #1 next year. . . #3 is not bad, but we are so near the top . . . let's make 1979 the year we do it.

Clay, K7CR

. . . . . WOMEN'S PRIZES . . . . .

Just a short note to say thanks to all who donated to the Mike and Key Amateur Radio Club banquet. Your donation was most appreciated as you know. . . we'll do it again next year, OK. . .

Millie Mowry, Debi Holt, Kaye Eylander, Bev Nelson, Vickie Mowrey, Margret Rehnstrom, Helen Strang, Ellen Leslie, Barbara Rambo, Jane Beatty, Diana Becker, Diana Hough, Wanda Jensen, Linda Grant and, of course, Charlie Hough and Les Jacobs.

Jan Hedberg and Deborah DeJong

**FOR SALE !!**

FOR SALE---INVENTORY REDUCTION & STUFF I NO LONGER NEED!!

++BC221-AK. With modulator, builtin power supply, calibration charts & manual:\$40.00  
 =====  
 ##Bendix Ultrasonic cleaner model SEC-48. 4x8x6 inch tank, 80 watt generator, good working shape, with manual: \$75.00  
 +++++

**\*\*RCA AR88D all-band general coverage receiver built by RCA for use in their overseas stations. Excellent condition. 6BK7B front end & "Q" multiplier only modifications on otherwise mint set. "Q" Mult included. Complete manual: 175.00**

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**++Heathkit Shawnee HW-10 6-meter AM/CW transmitter-receiver covering full 6-meter band plus MARS. 6360 final at 10 Watts. 4 crystal positions plus full VFO. Low pass filter plus complete mobile relays & mount: \$145.00**

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**##3-element wide spaced 6-meter beam. used but good: \$10.00**

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**\*\*Army PRC-9 low power CW/Phone transmitter/receiver. 2-12MHZ complete with manual and cords: \$25.00**

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**++Ling Electronics laboratory model peak-notch filter. Same as Autek and similar types of audio filters but much superior. 5-tubes require 250VDC @25ma plus 6.3VAC. Unit originally used as shaker table filter but superior for QRM eliminator etc. With manual: \$75.00**

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**##Heathkit IO-102 5-inch scope. solid state DC to 5MHZ. Clean & operating with complete manual and late Heathkit modification installed: \$50.00**

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**Radio Shack Astronaut-8 eight-band AC/DC Battery receiver. 540Khz thru22MHZ plus 30-50MHZ and 88 thru 174MHZ. AM-FM with BFO and squelch. Aircraft band and 2 meters all on this hot portable. With manual: \$50.00**

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**Motorola VHF AIRCRAFT receiver and transmitter complete with power supply, modulator, VOR Localizer and receiver. Covers entire vhf aircraft band. No manual and some cables required if installed in aircraft: \$45.00**

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**Call "GIB" W7JIE at 226-4222 evenings or drop a line to 1215 N 28 Pl, Renton 98055.**

EVENT	WHEN	WHERE	CONTACT	PRICE
FORT VANCOUVER HAMFAIR	May 12-13	Clark County Fairgrounds	KEN WESTBY	Registration: \$4.00 Dinner \$5 Kids \$2
YAKIMA HAMFEST	May 20	Eisenhower H.S. Yakima	YAKIMA ARC W7AQ	Door Price Reg: \$3.00
CENTRAL WASHINGTON HAMFEST	June 2-3	Rocky Reach Dam, Wenatchee	APPLE CITY ARC 713 Grandview Wenatchee, 98801	Registration: \$3.00 Banquet: \$5.00
PACIFIC NORTHWEST HAMFEST	July 14-15	Monroe Fairgrounds	H.A.M. Inc. Box 78442 Seattle, 98178	Registration: \$5.00 Under 12 free
GLACIER-WATERTON HAMFEST	July 21-22	3 Forks Campground Essex Mt.	SKIP WB7SFF (406) 54906885	Registration: \$6.00
LANE COUNTY HAMFAIR	July 21-22	National Guard Armory Eugene, Or.	EARL K7KVV (503) 485-5575	Registration: \$3.00 Free Parking
OKANOGAN HAMFEST	July 28-29	Lake Gallagher, B. C.	BUCK W7GSN on 3960, 7 p.m.	
WIMU HAMFEST	July 28-29	Mac's Inn, West Yellowstone		
COLUMBIA BASIN NET PICNIC	August 5	Swauk State Park, (Tentatively)	TINYWA7LOQ or GEORGE WA7JXL on 3960	Free
TACOMA HAMFAIR	Aug. 18-19	Camp Murray, Tacoma	RADIO CLUB-TACOMA W7DK 845-7800	
WALLA WALLA HAMFEST	Sep. 22-23	Milton-Freewater Community Center	TINY or GEORGE on 3960 mHz	Free

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## REPEATER NEWS

THE RADIO CLUB OF TACOMA, W7DK, WHO HAVE OPERATED FOR SOME TIME A REPEATER ON 2 METERS AT THEIR CLUB HOUSE AT 1249 SOUTH WASHINGTON IN THE CITY AND LEN WIKSTROM, W7ZZL OPERATOR OF THE GRASS MOUNTAIN REPEATER NEAR ENUMCLAW (@4350 FT) HAVE SWAPPED FREQUENCIES. THE REASON FOR THIS CHANGE CAN BE TRACED TO THE CONTINUAL PROBLEM OF INTERMOD DUE TO THE 600KHZ COMBINATIONS EXISTING IN TACOMA BETWEEN THE 147.84-24 "DK" MACHINE AND THE OLD "TACOMA REPEATER" ON 146.04-64. DUE TO THE FACT THAT 04-64 WAS ONE OF THE FIRST 2 METER REPEATERS ON THE AIR IN THE NORTHWEST IT WAS DECIDED THAT 84-24 WOULD BE THE ONE WHO WOULD MOVE. 96-36 HAS BEEN OPERATING NOW FOR A COUPLE OF WEEKS IN TACOMA WITH NO PROBLEMS AT ALL. LEN WILL HAVE GRASS MTN ON 84-24 AS SOON AS HE CAN GET TO THE SITE...HE HOPES TO EVENTUALLY TIE THIS IN WITH HIS OTHER 84-24 OPERATION ON MT CLEMMENS NEAR YAKIMA.

THE CHANNEL 1 REPEATER GROUP OF TACOMA WHO HAVE OPERATED A 6 METER REPEATER IN TACOMA ON THE KMO RADIO "INDIAN HILL" TOWER NEAR FEDERAL WAY HAVE DECIDED TO MAKE SOME MAJOR CHANGES. THIS SUMMER THE REPEATER WILL MOVE FROM 52.85/53.85 TO 52.15/53.15...THE MAJOR REASON FOR THIS CHANGE WAS THE BRINGING INTO THIS AREA SOME 100 PLUS MOTRAN RIGS FROM CALIFORNIA AND THE FACT THAT THESE RADIOS WILL NOT OPERATE ON THE RANGE OF FREQUENCIES FROM 03 (OLYMPIA) 29 (SEATTLE) AND 85 (TACOMA) IT IS HOPED THAT THIS QSY WILL PUT THE TACOMA OPERATION WITHIN THE RANGE OF THE COMMERCIAL UNITS LIKE THE MOTRANS AND OTHERS...THIS WILL NOT EFFECT THE OPERATORS OF 1060'S, HR6'S, GTX 600'S ETC. ...OF COURSE IT WILL REQUIRE THE PURCHASE OF NEW CRYSTALS...IN THAT REGARD SOME USE MAY COME OUT OF THE OLD 53.16 RECEIVE CRYSTALS FROM THE OLD 'MIKE AND KEY CLUB MACHINE' THERE ARE OVER A HUNDRED OF THESE IN THE AREA IN JUNK BOXES, ETC. THE TACOMA GROUP ALSO PLANS TO ADD A SOLID STATE RECEIVER AND NEW LOW LOSS COAX AND MOVE THE ANTENNAS HIGHER ON THE EXISTING TOWER TO INCREASE THE RANGE OF THE REPEATER, IT WILL REMAIN LINKED TO THE TACOMA 220 REPEATER ON 58/18. THE CHANNEL 1 GROUP IS MADE UP OF JACK K7DBU, CLAY K7CR, NICK WA7IVO, ARNE WA7WKT, TIM K7HF AND DICK W7HGX THEY WILL CONTINUE THEIR POLICY OF NOT ACCEPTING ANY DONATIONS HOWEVER THEY WOULD LIKE TO URGE SUPPORT FOR LEN WIKSTROM, W7ZZL WHO WILL BE PUTTING THE 85 FREQUENCY TO USE ON GRASS MTN AND IS IN NEED OF SUPPORT AND ACTUAL PHYSICAL HELP. THE RESULT OF ALL THIS SHIFTING WILL ACTUALLY GIVE 85 MUCH GREATER COVERAGE AND THE 40 OF SO USERS OF THIS MACHINE WILL NOT END UP WITH MORE CRYSTALS IN THE DRAWER.

K7MXE/R IS ON THE AIR IN TACOMA WITH A LOCAL COVERAGE 6 METER REPEATER OPERATING ON 52.79/53.79 OTHERS IN THIS GROUP INCLUDE DICK K7MQJ/AL K7LWE/JIM K7WUH AND BOB K7MXE.

March 29, 1979

Mr. Gib Gibson, W7JIE  
President, Mike & Key Amateur Radio Club  
1215 N. 28th Place  
Renton, Wa. 98055

Dear Sir:

Some time in the past K7YR, either in the Relay or on the air, remarked about possible projects that the Mike & Key Amateur Radio Club could become involved to further amateur radio in one way or another.

Of recent, there have been a number of comments in the Seattle Times regarding RFI. I feel sure you have read these comments which were written mostly by amateurs. Those that were not were somewhat antagonistic in one way or another because of evident lack of knowledge on the subject. Of course, when one's stereo, radio, or TV, etc. is disturbed by outside interference reason disappears, as many of us amateurs have learned from actual experience.

Now what is this person like who is puckered about the interference on his or her entertainment equipment? He or she is somewhat egotistical, a hustler, knowledgeable conceituous, bon vi-vant, family oriented, and much more to say the least. You know them well. They know nothing about their equipment, as you know, it is the best that their money can buy and it is easier to point the finger at the closest source, the ham down the street,

How does one go about reaching this disturbed individual so that they will add to the knowledge they have without really being aware they have gained in the field of RFI? They really are not interested in the ARRL (doesn't know what it means and cares less) or the FCC (nothing more than another bungling government agency impinging upon his rights and wasting his tax dollar). Of course, you know these people, they are a representative of 200 million people in the U.S. and Canada.

Now that we know these people how best can we be of assistance to them in the field radio?

Referring back to the first paragraph I would like to suggest modified ham lessons, written in laymans terms, in the form of newspaper instruction articles be developed. Written for the Seattle Times or the P.I. The entire program would be backed and financed by the club. This would be the best approach to reach him or her with, say, one article every week for a year.

I can see it covering the many facets of radio including, but not limited to, antennas, zoning codes, environmental impact statements (surely hams will be required to write one in the very near future for towers), effects of towers on real estate, raising and lowering antennas in relationship to the earths surface, RFI because of ford and volkswagen autos, grocery store compressor motors, electric resistance heaters, heating pads, electric blankets, microwave ovens, pacemakers, and electronic brakes to name a few. Historical development of radio thru the tube period, transformers, and that ilk. Emergency communications, traffic nets, phone patching, and those attendant systems. The FCC rules and regulations with explanations, and the whole gamut of the field.

The goal would be to provide all the things necessary for the theory part of the FCC exam.

I would expect that it would take at least a year of research, preparation, and writing. Since I have not met anyone in the club who has the special quality needed for writing the lessons it would appear that the services of a ghost writer would be required. Each lesson must be interesting and subtle. At this writing it would appear that this project should be guided and managed by a committee as the best procedure. Chaired by possibly W7JWJ (for his educational background and tie to the club). The members of the committee would be an attorney (for his knowledge of the law), a technician (with a wide electronic background working in the trade), an architect (for his knowledge of city and state codes and design expertise), an electronic engineer (for his knowledge of electronic design), an electrical engineer (for his knowledge in the electrical facilities field), and a businessman (for his knowledge of business, advertising, etc.). The chair would cast the deciding vote if ever required. The club, of course, would give the committee full freedom without strings attached whatsoever. The architect and engineers must



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be licensed in the State of Washington as would be the attorney.

Why the newspaper? This is the only route to reach these people we have just began to get acquainted with. No small paper but one large area wide circulation type.

This idea would be a large and difficult under taking and must be very carefully written to be interesting and attractive to the uninitiated and the interested amateur. I would assume that it would be very difficult to sell this idea to the membership as they too are members of these folks fraternity in other fields.

I hope that I have tweaked your interest and that if not this idea, maybe I have suggested something else that may be just as good, however, in respect to this field you must reach these people and their fraternity or the amateur will be no better off than he was forty years ago. He just may be squeezed out of the radio spectrum sooner or later.

If I can be of any service to you on this matter please do not hesitate to contact me.

Kindest regards,

  
Don F. Miller  
WA7FIC

cc: K7YR  
W7JWJ

## ACTIVITIES CALENDAR

DATE	ACTIVITY	LOCATION	TIME	FREQUENCY	CONTACT PERSON	NO. OF PEOPLE
May 17	Ballard Seafair Parade	Ballard	5:30 Pm	146.58	WA7EBH/K7YR	8-10
May 17	PUB jump	Seattle	6-12 Pm	-	W7QGP	10
May 19	Heart Walk	Seattle	9 Am	146.28-88	WA7EBH/WA7YIG	15
May 20						
May 26-28	Sea. Folk Life Festival	Sea. Center	12 Noon	146.58	WA7EBH	10
June 23-24	Field Day					
July 14	Moss Bay Race	Kirkland	10 Am	146.58	WA7ELI	5
July 27	Chinatown Par.	Seattle	5:30 Pm	146.58	WA7EBH/K7YR	8
July 30	University Dist	U. Dist.	5:30 Pm	146.58	WA7EBH/K7YR/WA7ELI	10
August 3	Lake City	Lake City	5:30 PM	146.58	WA7EBH/K7YR	10
August 3	Des Moines Par.	Des Moines	5:30 Pm	146.52	WA7EBH/K7YR	10
August 4	Torch Light	Seattle	5:30 Pm	Various	WA7EBH/K7YR	40
Sept. 8-9	Fishing Derby	Puget Sound	5:30 AM	146.01-61	K7WTG	-

ACTIVITIES CALENDAR

May 19

Board Meeting – 7:30 a.m.

NOTE: —————

**BUSINESS MEETING – 9:00 a.m. !!**

Tour of Ste. Michelle Winery – 11:00 a.m.

June 5

Membership Motivation Committee, 7:30 p.m.  
Doubletree Inn Coffee Shop  
Southcenter

June 23 & 24

Field Day

See separate Public Service Activities calendar

May 11

Executive Board Meeting, 7:00 p.m.  
At Gib's W7JIE home

**MIKE AND KEY AMATEUR CLUB**

C/O 23206 SE 53rd  
Issaquah, WA 98027

FIRST CLASS