



# K7LED RELAY

SEATTLE, WASHINGTON

VOLUME 7

NOVEMBER 1979

NUMBER 7

## CLUB OFFICERS

President	K7KOT	Steve Tillett	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 Goodell	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 Rembaugh	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

The K7LED RELAY is the official publication of the Mike and Key Amateur Radio Club, 23206 S. E. 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 25th of each month preceding the date of publication.

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.

MEMBERSHIP: 86

## ACTIVITIES

- November 17 Board Meeting 7:30 a.m. Omni Restaurant  
Business Meeting 10:00 a.m.  
Program Printed Circuit Boards
- December 1 Christmas Party at McMicken Heights Improvement Club
- December 15 Board Meeting 7:30 a.m.  
Business Meeting 10:00 A.m.  
Program Tune-Up Time

## OCTOBER MEETING HIGHLIGHTS

The early-bird door prize was won by Dick, WA7UEW. Get to the meeting before 10 am and you will have a free chance at this prize selected by Hal.

It took some careful counting of members present at the meeting to determine that there was a majority (just barely) at the meeting to vote on the constitution amendment which changes the month for voting on officers from April to March. All members present voted for the change so now the change of command can be more orderly and perhaps will not conflict with other April activities such as the Skagit Ham Fest or the opening of fishing season. We look for better attendance at the next banquet!

The Greenwood Inn in Bellevue has been reserved for the first Saturday in April for the 1980 banquet. Ray Leslie, WA7EKH, mentioned that the Auburn Elks should also be considered for the location because we would get a better return on our money. Following a discussion, the members asked Ray to get additional details. He said that the one drawback to the Elks Club is that there must be one Elks member for each ten M&K members and/or guests attending. Based on last year's attendance we would need eight Elks members to attend the banquet. So if you are an Elks member, let Ray know so he will know if we have enough members to try to schedule the banquet at the Elks Club. All you Elks give Ray a call in the evening at 821-4188.

Ken, K7YR, is busy putting the finishing touches to a new 6 meter repeater to be in operation by about the first of December. The repeater will operate on 52.37/53.37 from the 450-foot level of channel 11's new tower located on Capital Hill.

The 1980 ARRL National Convention committee has approached several club members about the possibility of the M&K Club assisting with the convention. However, the club has not been officially asked for help. Members of the committee have been invited to our meetings to explain what help they want and to permit members to ask questions. Following a discussion, it was decided to wait until a convention committee member attends one of our meetings before deciding on the amount and type of help, if any, the club will provide.

Al, WA7TIB, will take over the donut and coffee chore until the first of the year.

The old 2 meter base station will be installed at the Red Cross by Chuck, WA7EBH.

The treasurer reported a balance of \$1,785.04.

## Murphy's law for Amateur Radio

Larry Waggoner, W0KA

- An important instruction manual or operating manual will have been discarded.
- Original drawings will be mangled in the copying machine.
- Any wire cut to length will be too short.
- Identical units tested under identical conditions will not be identical in the field.
- The availability of a component is inversely proportional to the need for that component.
- If a project requires X components, there will be X - 1 in the junk box.
- If a particular resistance is needed, that value will not be available. Further, it cannot be developed with any available series or parallel combination.
- A dropped tool will land where it can do the most damage. (Also known as the law of selective gravitation.)
- A device selected at random from a group having 99% reliability, will be a member of the 1% group.
- The probability of a component value being omitted from a plan or drawing is directly proportional to its importance.
- Interchangeable parts won't.
- Components that must not and cannot be assembled improperly will be.
- If a circuit cannot fail, it will.
- A fail-safe circuit will destroy others.
- A transistor protected by a fast-acting fuse will protect the fuse by blowing first.
- A self-starting oscillator won't.
- A crystal oscillator will oscillate at the wrong frequency — if it oscillates.
- A PNP transistor will be an NPN.
- A failure will not appear till a unit has passed final inspection.
- If an obviously defective component is replaced in an instrument with an intermittent fault, the fault will reappear after the instrument is returned to service.
- After the last of the 16 mounting screws has been removed from an access cover, it will be discovered that the wrong access cover has been removed.
- After an access cover has been secured by 16 hold-down screws, it will be discovered that the gasket has been omitted.
- After a rig has been fully assembled, extra components will be found on the bench.

—Bulletin of Kansas ARPSC

## Or do you just belong?

Do you attend the meetings  
And mingle with the flock?  
Or do you stay at home  
To criticize and knock?  
Do you take an active part  
To help the work along?  
Or are you satisfied  
To only just belong?  
When the business session comes  
around  
Do you pretend you're sick?  
Then leave the work to just a few  
And talk about the clique?  
Think this over, member,  
You know right from wrong.  
Are you an active member,  
Or do you just belong?  
—Hamgab

## ACTIVITIES REPORT

### OCTOBER MEETING

After the last business meeting, Al, WA7TIB, demonstrated the use of his home computer. Al demonstrated his field day dupe program and contest log program. Looks like it would be an asset to any FD station. Al indicated that there are three Apple II computers in the club which could be programmed for field day. Al also demonstrated his newly developed program to assist on the auction bookkeeping chore, which by the way, worked very well. Thanks Al for the fine presentation.

### AUCTION—OCTOBER 27

Well another Mike and Key auction has come and gone. If you missed it you missed many excellent buys. We had approximately 200 registered with about 55 different sellers. I believe the selection of junk is getting better every year, Hi. Dave and Linda Grant kept everyone happy with popcorn, sandwiches, pop, and coffee while Pete, K7WTG and Ken, K7YR exercised their lungs to keep the audience's attention.

This auction was very successful because everyone pitched in and helped. Many put in long hours, arriving at 6 am and not leaving until 5 pm. Without this help this fine event would not have been. Financially, the club did very well, Lew will have the final figures at the November meeting.

I won't try to thank everyone by name, because I'm sure to forget someone. But as activity manager, my thanks to all for making this another successful activity.

### NOVEMBER—SWEEPSTAKES

Well, all you CW nuts have already had your sweepstakes weekend, November 3&4. Upcoming is the phone weekend, on the 17 & 18. This is an excellent opportunity to sharpen your field day techniques. Everyone should get on sometime during this weekend and get in some good contest operating. Ten and Fifteen are excellent bands to operate with low power, and by the way, they are in excellent shape. Be sure to indicate on your sweepstakes score that it is for our club score to be counted .

### NOVEMBER MEETING

After the business meeting, George, N7BT will be giving a presentation on printed circuit board techniques. George will be providing handouts of his presentation with space for taking notes.

### CHRISTMAS PARTY

Well, I hate to mention it, but it's getting to be that time of year again. But lets look on the bright side; along with Christmas we get to start the season off by having the annual Mike and Key Club Christmas party. This years date is on Saturday, December 1, at the McMicken Heights Improvement Club. Let's all reserve that date. Live music will be available for

your listening and dancing pleasure. More on this at the November meeting.

#### DECEMBER MEETING

Several members have expressed an interest in having a tune-up clinic. Perhaps this would make a good activity for after the December meeting. We would need various pieces of test equipment in order to be able to be of service to the members. Scopes, counters, deviation meters, spectrum analyzers, etc. would probably be required. I will try to make the arrangements and will have more details in the December Relay.

#### DECEMBER SANTA TALKS

It's time for the annual Mike and Key Santa talk. I need a volunteer to set this up. How about it?

#### APRIL BANQUET

It might be a little early to start thinking about the banquet, but some advance planning is needed. Ray, WA7EKH, has looked into the possibility of holding the 1980 M&K banquet at the Auburn Elks. This is an excellent idea which provides many advantages over having it at a commercial establishment. The only catch is we would need at least one Elk member for every 10 guests.

Ray needs to find out how many Elk members we have in the club that are planning to attend the banquet.

Some of the advantages would be: No minimum bar bill, live music, better food and probably cheaper. So, if you are an Elk, please notify Ray or myself so definite plans can be made.

Activities Manager  
Hal, N7NW

#### AUCTION PROFITS UP THIS YEAR

The profit from this year's auction was up about 10 percent over last year, according to Treasurer Lew, Rambo. There were 55 sellers/buyers and 118 buyers only. The club earned \$403 on items sold plus \$245 on items donated to the club. Dave and Linda Grant, the Galloping Gourmets, showed a profit of \$40. In addition, Little John's general store sold \$61. From all of these sources the club had a gross profit of \$749 with rental expense of \$75.

BITS & PIECES

Now is the time. If you have any six meter gear -- get it on the air. Six is now open almost everyday to the East Coast, South America, various Pacific Island, and thousands of JA'S. It's only a matter of time and we should get some European openings as well as VK & ZL.

\*\*\*\*\*

JY3ZH, Zedan, of Jordan reports there will be a 8Z4 dspeidition from November 10 to 20th. That's a good one to get.

\*\*\*\*\*

Twenty has been open nightly to JY, HZ, 4X4 and many Russians.

\*\*\*\*\*

UKIPAA, Franz Joseph Land has been showing up at 14,250 at 1500Z on Wednesdays and Saturdays, with W7DHO taking a list at 1430 Z.

FOUND!!!!

A Wilson Mark II hand-held was found on a Northwest Airlines plane during the week of September 9, 1979. The flight was probably between Los Angeles and Seattle, but that is not known for sure.

If you think the handheld is yours, contact Frank Stoutemburgh, District Manager, Northwest Airlines, Los Angeles, (213)646-7705. Identify by serial number or other identifying characteristics.

BALLAD OF AN ONION SANDWITCH---ROSE HILL RONALD.

GOTTA PICK ON THEM THERE FONE FELLERS TOO. THEY AINT SO GOLDINGED SMART UDDER. LIKE THEM WHAT COME UP WITH "FUNNY FONETICS" FER THEIR CALLS. ER THEM WOT SAY THAR CALL SO FAST IT SOUNDS LIKE A BURST O STATIC. WOTSAMATTA YEW??? AINTCHA PROUND OF YER CALL?? DONCHA WANNA LET FOLKS KNOW WOTCHER CALL IZZ?? MEBBE YEW DUNNO YER OWN CALL SO YEW GIVE OUT A BUNCHA GOAT-TALK TO CONFUZE THE FOLKS. HITS A SHAME!! HERE WE GOT A CHANCE TO LOOK LIKE WE WORKED FER THAT LICENSE, WE GOT SUMPIN TO BE REAL PROUND OF AND THEN GO A MESS THE CALL UP WID BAD MOUTH. ER SCREW UP THE FONETICS AND MAKE LIKE HITS A BIG JOKE. WUNNER WOT OLE FCC WUD DO IF THEY APPLIED 97.87 (h) TO SUMMA THEM WHAT SCREW UP THEIR CALLS?? AN HIT SHORE SETS A GOOD EXAMPLE FOR THEM WHAT TUNE IN ON THE HAM BANDS. NO WUNDER THE WORD "AMATEUR" GOT TO MEAN SUMBUEDDIE WOT DONT NO NUTTIN ABOUT NUTTIN. HITS A GOOD THING SUMMA THEM FOLKS YEW TALK TO REKOGNISE YER VOICE AND ANSER YEW CUZ THAR AINT NO DOUBT THEY DUNNO YER CALL THE WAY YEW BELCH WHEN YEW GIVE IT. 'S AWFUL & IT GOTTA BE FIXED...& THAT APPLIES TO EVEN THEM NEW 2-LETTER CALLS WOT SPRUNG UP IN THE LAST COUPLA YEARS...THEMS SUPPOSED TO BE THE BEST O THE BUNCH BUT THE EXAMPLES IS KINDA AWFUL AINT THEY??? CUT THE FUNNIE FONETICS & GIVE YER CALL NIZE & CLEAR SO WE ALL KNOW WHO YEW IZ CALLIN & WHO IZ DOIN THE CALLIN.



FOR THE LADIES



HOW DID YOUR GARDEN GROW? ZUCCHINI IN ABUNDANCE! READ ON.....

My kids are card-carrying zucchini haters, which bugs me no end because a zuke has practically no taste. Have you ever tried zucchini plain-without benefit of vegetable dip, tomato sauce, parmesan cheese, or catsup? It has darn little flavor. How can they hate something that is practically a nothing?

I've baked, boiled, sauteed, fried, broiled, steamed and fricasseed it and presented it raw with dips and in salads. All of the efforts have been met by a chorus of YUK and GROSS! I've added onion, green pepper, garlic, dill, celery salt, pepper, parmesan cheese, white sauce, hollandaise sauce, cheese sauce and everything but chocolate and butterscotch sauce - all to no avail.

I've tried recipes with such tantalizing names as "Zucchini Beef Bake", "Calico Skillet", "Zucchini Milano", "Zucchini Parmesan", "Zucchini on the Half-Shell" and even one called "Zucchini Hater's Casserole".

Now we all know how teenagers love pizza, and my kids are no exception. So, I found a recipe for "Zucchini Pizza".

"This is it," I yelled. "Here's one recipe they won't turn up their noses at". I rushed to the store to get the mozzarella cheese and pepperoni. I didn't tell the kids about the new ingredient which was destined to become tops on the pizza parade. "I'll sure surprise 'em tonight".

I got the pizza sauce simmering on the burner, stirred and rolled out the crust, shredded the cheese, sliced the pepperoni and olives, chopped the onions and green pepper and drained the mushrooms. Then, CAREFULLY, I sliced the zucchini paper thin, just like the recipe said.

I cut four cartwheels of crust, spread on the sauce and, feeling like a master chef, neatly arranged the other ingredients, finishing it off with the zucchini slices and a liberal drenching of shredded cheese. I popped the pizzas in the oven, poured the kids some Kool-Aid and myself a glass of iced tea and settled back to wait for the "PIZZA OF THE YEAR" to bake.

It smelled great - so great, in fact, that the kids came in from outdoors yelling, "Hey, Mom, what's cookin'?" I craftily answered "pizza" and was greeted with a chorus of "YEA":

"You've really out-foxed 'em this time, old girl," I told myself as everyone sat down at the table. The whirling blade of the pizza cutter made quick work out of the first circular culinary creation, and then it was on to the next cheesy disc.

I can't remember which one of my three kids discovered the zucchini in the pizza, or at which stage in the meal we were, numbering the pizzas 1 through 4 - but one loudmouth, ingrate, rat-fink yelled, "MOOTHERRR, HOW COULD YOU?"

When the second piped up with usual verbiage, "YUK, GROSS, DOUBLE YUK!" I knew my little secret was out. Then the third one moaned, "Mom, how could you put zucchini in the pizza?", and my whole world came crashing down around me.

Have you ever tried separating soggy, cooked zucchini from stringy, melted mozzarella cheese? "I'm not beaten yet," I said. We will use up all that zucchini I've raised.....

## HR REPORT HIGHLIGHTS

WARC NEWS CONTINUES GENERALLY FAVORABLE for the Amateur service; ARRL's WARC team reports from Geneva. Some consideration has now been given to the lower frequency Amateur bands, and on a world-wide basis, the service is holding its own.

160 Meters: An exclusive 40-kHz slot in Region 1 seems to be within reach; Region 2 looks like it'll keep 1800-2000 kHz with 50 kHz exclusive (probably the bottom end) and 150 kHz shared. Region 3 is also likely to end up with 200 kHz, possibly all on a shared basis though an "Amateur Exclusive" slot is possible.

40 Meters: As of now, the present 7-MHz worldwide allocations appear to have been maintained. However, international broadcasting's desire for new frequencies should still be considered to be a potential threat to a portion of that band.

6 And 2 Meters: Present 50-MHz allocations do not appear to have been altered at this time. 144-148 MHz is also retaining the status quo, though some reservations ("footnotes") are believed to have been proposed for the band in some areas.

220 MHz: Amateur and Mobile services have been proposed as "Co-Primary" users for this band, in Region 2 only.

3 Centimeters: 10.45-10.50 GHz has been proposed as a world-wide "Amateur Satellite" sub-band.

PROPAGATION NOVEMBER 6-20. As we go to press, DX conditions remain good-to-excellent on all HF bands through six meters, although a mild disturbance of the geomagnetic field was beginning on November 1st. A magnetically complex region that recently appeared on Old Sol's east limb promised to produce some "sparks" but it has apparently fizzled.

In Spite Of The Continuing High Solar Flux, Old Sol's X-Ray activity level has been relatively low, not ruling out — but rendering improbable — any major flares during the forecast period. On November 1st and 2nd, the geomagnetic field was mildly unsettled, and is likely to remain so for the next week or so, with occasional lapses to quiet.

DX Will Be Excellent for the fortnight, punctuated by sporadic relapses to fair or even poor, particularly on November 7th, 10th, 13th, and 20th; but the remaining days between now and then should keep you burning the midnight oil. W1XU

8Z4A, SAUDI ARABIAN-IRAQI Neutral Zone DXpedition, is now scheduled to open up November 10 or 11 and last about 10 days. JY1, King Hussein, is sponsoring the all-band, multi-op, round-the-clock effort, which will use the "usual" DXpedition frequencies. Thanks K6YA, Southern California DX Club Bulletin.

CRETE BY SV0AA/9 will begin November 12 and run a week, to be followed by a week in the Dodecanese as SV0AA/5. The operation will be CW only, 25 kHz up from band edges.

ANY AMATEUR LICENSE MODIFICATION will now require filing of a Form 610 or 610B, the FCC has decided. Previously, a change in mailing address (only) simply required a note to Gettysburg, though a station location change did require a Form 610 or 610B. For most Amateurs, mailing address and station location are the same. However, most Amateurs who have moved have not been submitting 610s, thus requiring a response from Gettysburg before their request for modification could be processed.

Modified Licenses now will be extended for a full 5-year term effective on the modification date; changes effective November 12.



A NINE MONTH NOVICE TRAINING program, designed to parallel the FCC's Novice syllabus, will begin in the January issue of CB Magazine. Students will be urged to use ARRL's License Manual and to buy either the Heathkit, Radio Shack or Kantronics Novice training course. At the end of each month's session, students participating in the program will be quizzed with FCC-type questions on that session's subjects.

Students Will Be Referred to the ARRL at mid-course for help in finding a nearby course or instructor for CW help and to administer the FCC exam.

The Course Is The Brainchild of CB Magazine's new editor, WB6NOA, and was promised by Gordon at the time of his appointment to the post last summer.

EMERGENCY COMMUNICATIONS planning should be a lot easier with the aid of an information packet now available from the FCC. In the packet is the Emergency Communications Plan for Support of Local Government (the "Tacoma Plan"), which was adopted by the Amateur Radio Service Subcommittee of the National Industry Advisory Committee (NIAC) at its Washington meeting Monday. A number of other subjects, including proposed interfaces between Amateur emergency operations and the Emergency Broadcast Service, were also discussed by the 15 committee members and observers who were in attendance at the all-day session.

Copies Of The FCC Emergency Communications packet, which includes a number of useful planning materials in addition to the Tacoma Plan, are available from the Executive Secretary of NIAC, Emergency Communications Division, FCC, Washington, D.C. 20554.

THE WESTLINK RADIO NETWORK was sold Monday to WA6ITF. Bill has played a key role with the news service for some time, and worked closely with founder WA6VQP who founded Westlink just over two years ago. No change in service or operation is planned.

NEW 900-MHZ PERSONAL RADIO Service, proposed by the FCC in June with PR Docket 79-140, has drawn surprisingly light response thus far. Despite the apparent widespread interest in 900 MHz and the significance of its possible use by a new "CB" service, relatively few of the FCC's detailed questionnaires or any other comments have as yet found their way to the Commission. Due date for comments on the proposed 900-MHz service is November 30, reply comments, December 31.

WIDEBAND FM ON ALL OF 6 METERS is to be proposed in a new Notice of Proposed Rule Making due shortly from the Commission. At their last Thursday meeting, the Commissioners decided to throw the issue of 6-meter sub-bands squarely back to the Amateur fraternity by proposing that the band have no divisions by modulation. In an earlier Petition for Rule Making, the Southern California Repeater and Remote Base Association had proposed that all Amateur frequencies above 29 MHz be opened to wide-band FM, while ARRL had petitioned for moving the present 52.5-MHz lower limit for wide-band FM down. In commenting on the two RMs, SMIRK had argued for maintaining the status quo, but another user group, owners of radio-controlled models, were noticeably silent. Strong opposition to the proposed deregulation can be expected from SMIRK and other 6-meter DXers.

Elimination Of Reciprocal Permits for U.S. CBers to operate in Canada and Canadian GRS operators to operate in the U.S. is on the Commission's agenda this Tuesday, November 6. A favorable decision could conceivably be extended to Amateur travelers, too.

## HAVE YOU WORKED NN3SI?

Atop the impressive marble structure that serves as the headquarters of the history and technology museum of the Smithsonian Institution in Washington, D.C., is an antenna array that would make the most well-equipped ham drool in envy.

At an above ground height nearing 100 feet is a seven element rotatable log periodic tri-band antenna for 10, 15, and 20 meters, capable of beaming a high gain signal to virtually any corner of the world.

A few feet below it is a two element 40-meter beam. And sticking up around both of those antennas are so many omnidirectional verticals and wire dipoles that the rooftop installation resembles an angry porcupines back.

It's all part of NN3SI, the FCC-licensed special event amateur radio station at the Smithsonian, whose powerful signals have been heard and worked by thousands of hams and shortwave listeners across the U.S. and the world.

Operated by volunteer hams every hour that the Smithsonian is open, the station — equipped with the latest in state of the art amateur gear— is a part of the institution's Nation of Nations radio communications exhibit.

So if you get to Washington, D.C. make the Smithsonian ham shack one of your stops.

10

MIKE AND KEY AMATEUR RADIO CLUB  
16812 N.E. 107th  
Redmond, WA 98052

ADDRESS CORRECTION REQUESTED

FIRST CLASS