



K7LED RELAY

Seattle, Washington

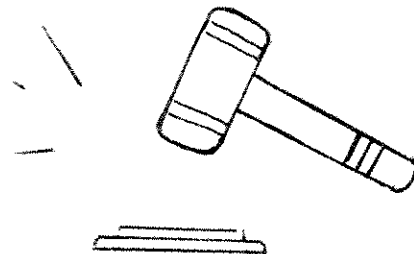
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The K7LED RELAY is the official publication of the Mike and Key Amateur Radio Club Inc., 750 South 317th, Federal Way, WA. 98003. Articles for publication should be presented to Jane Beatty, 426 NE 156th, Seattle, 98155. Deadline is the 25th of each month preceding the date of publication. Articles may be quoted in full or in part without prior permission providing the K7LED RELAY is credited.

CLUB OFFICERS

President	WA7TOM	Dave Grant	631-6836
Vice President	K7PK	Dick Mowry	631-3199
Secretary	WB7DVX	Linda Grant	631-6836
Treasurer	WA7HCP	Jim Long	228-3872
Activities Mng.	WA7NIW	Dick Radford	883-0662
Trustee #1	K7WTG	Pete Hedberg	
Trustee #2	WA7RJW	Chris Holt	
Trustee #3	W7JIE	Gib Gibson	
Trustee #4	K7BNN	Jay Mowrey	
Trustee #5	K7CR	Clay Freinwald	
Radio Officer	K7PP	Pete Policani	



- THANK YOU -

to Karon Policani for all the time and effort she has put into our RELAY since September 1976. It has suddenly become very clear to me what a staggering amount of work is involved to gather information from people who are difficult to reach, type the information and then lay it all out for printing. She did the job very well and I'm sure she will be an equal success in her new business.

I would also like to thank the many people who have offered articles and advise. I'm sorry that all the items submitted are not in this issue but don't get discouraged, they will appear as soon as possible. I hope that the club input will remain at this outstanding level for a long time, it makes our paper interesting and the editor's job easier.

In answer to a few questions I have recieved:

NO we do not use photographs in this paper, it involves too much extra work for the printers. Line drawings are best.

YES I will print items exactly as they are submitted, without editing, except in the case of foul language or spelling much worse than my own.

BUT I would appreciate the right to re-word or shorten items whenever possible.

Remember, this paper is part of your club, BE INVOLVED!

Jane

BOARD MEETING 1-21-78

Members present: Pete K7WTG, Dick WA7NIW, Jim WA7HCP, Gib W7JIE, Clay K7CR, Jay K7BNN, Dave WA7TOM, Linda WB7DVX, and Chris WA7BJW.

Gib W7JIE is now chairman of the executive Board.

Dave WA7TOM is appointed to check with Chuck W7RJT and Ken K7YR about the Pop Brown Award.

Mention of the roster- Jan WA7HWX will do the typing. The roster will also have the expiration date of your dues.

Clay K7CR suggested that we put some of our treasury funds into the bank savings acct.

Pete K7WTG made a motion to have Jim WA7HCP deposit the surplus funds into a savings account. Seconded by Jay K7BNN. Voted on and approved.

Ex. Board recommendations to the general membership for the 5 functions within the club: Social Functions-Dick WA7NIW, Contests-Clay K7CR, Public Service- Chuck WA7EBH, Fund Raising-Hal N7NW, Education & Training-Dave WA7TOM.

Jay K7BNN moved and Jim WA7HCP seconded - Vice President of Mike and Key shall be in charge of membership validation. Carried

Pete Hedberg moved that the Ex. Board recommend to the membership that Pete Policani be retained in the position of Radio Officer. Seconded by Dick Radford. Carried (4 months)

Clay moved to adjourn, motion seconded, meeting adjourned 9:30.

General Business 1-21-78

Welcome to all

Les WA7NXC presented the club with a certificate from AMSAT.

Dave WA7TOM showed the certificate from the ARRL for taking first place in 7A at Field Day.

Jan WA7HWX will be making a new roster. Any changes, please let her know. The roster will also have the expiration date of your dues.

Pete K7WTG talked on the New Constitution Committees, suggested names from the Board:

Social Functions	Dick Radford	WA7NIW
Contests	Clay Freinwald	K7CR
Fund Raising	Hal Goodell	N7NW
Education & Training	Dave Grant	WA7TOM
Public Services	Chuck Stroether	WA7EBH

Ex. Board will be reviewing at next Board meeting.

General Business cont.

RELAY cut-off date will be the 25th of every month, Jane Beatty.

Arnie WA7WKT announced the six meter repeater, WR7ABP, Still needs donations, about \$250. Contact Arnie WA7WKT or Jon W7PHZ.

Clay K7CR announced Motrams for sale for 6 meters. Contact Clay at home, phone # 584-2988

Little John WA7HQG announced the T-shirts are still on sale. \$4. for adults and \$3.50 for the kids.

Pete K7WTG announced that Gib W7JIE is now the Ex. Board Head. Congratulations!

Vern W7ZLW still has the personalized cups for sale, \$3.75.

Lou WA7ELI announced that ARES, SET exercise is January 28 & 29th. 11:00 - lunch, 12:00 - exercise starts

Minutes were approved after the corrections: Karon's call WA7WVJ, and Pete K7PP 's motion was approved and letter sent.

Treasurer's Report - total cash assets \$2,011.93.

Half the club's dues are due this month. No bills to submit.

Gib made a motion to alligate Jane Beatty for \$50. for the publication and mailing of the paper. Seconded by Pete K7WTG, voted on and approved.

Activities - THE BANQUET NEEDS HELP !!

Lou WA7ELI says there is no Puget Sound Council meeting til Jan. 27th.

Ken K7YR will put together a photo albumn for all the certificates etc.

Elmo WA7YCM suggested that every club member bring a QSL card to the meeting.

Jay K7BNN made a motion to adjourn, it was seconded , approved.

Linda Grant, secretary

-*- EXTRAS -*-


The club call went to Mike WA7OMP, anyone may recieve a K7LED card by working whoever currently holds the club call.

The Puget Sound Council Net is on 39.30 Saturday mornings at 9 AM.

Annual Banquet is on April 15th- volunteers are still needed to work on the program and prizes. A group effort would really help. Please contact Dick WA7NIW, 883-0662.

New members needing a club badge contact Jerry K7RN. Don't forget there is a 10% fine for any club member attending a meeting without a name tag.

SHORT BURSTS.....

Vicky WB7ELG has upgraded to technician Somewhere there is a vertical antenna that jumped over a fence and escaped from the backyard of WA7NXC Ralph K7MF is sporting a '78 white Firebird Dave WA7TOM is finally on the road again with his '62 van, decorated with a couple of FOR SALE signs DON'T FORGET that special person in your life, Valentine's Day is Feb. 14th 

Chris WA7RJW and Debi wish to thank the club for the Cirque Theatre tickets (won at the Xmas party). They attended Friday, Jan. 27th and saw Dick Smothers in "Not Now, Darling".

Jim WA7HCP and Chuck WA7RJT report that the club sponsored Novice class in Renton got off to a good start Jan. 10th with 20 students. There will soon be newly licensed people needing a "buddy" to help them get started on the air. Anyone interested please contact Jim or Chuck.

FOR THE LADIES

- Easy Stuffed Meatballs -

Make your favorite stuffing, pre-packaged works fine, spoon into center of thin, flattened hamburger patties (about 4 or 5 per pound). Form the meat up and around the stuffing to make a smooth ball. Set the stuffed meatballs close together in a fairly deep cassarole dish, pour over one can Cream of Mushroom soup mixed with a can of milk and 2 tsp. of Kitchen Bouquet for gravy (opt.). Cover and bake 1 HR. at 350 Extra stuffing may be heated in a separate dish during last $\frac{1}{2}$ HR.

DX CORNER

For the month of January it looked pretty poor, but there was some DX reported in this area. As of this writing the 20 meter band has started to clean up and it's quite possible that if you were to get on you could snag some good ones.

The long path has been open almost every morning at about 6am. and signals have been pretty strong too.

It looks as though the bands may just get real hot in February so warm up them 807's and have at it!

There is a new country in now and its call is H5, but other than being in South Africa I can't tell you where it is yet.

The VHF activity has been getting a real workout lately and it seems that more and more hams are discovering 2 meters. N7NW has set up and is now working moonbounce. I wish him the best because it's tough!

Jim K7ND has gotten his 2 meters back on the air and is going to start his scatter schedules soon.

DX CORNER cont.

On Saturday the 23rd, there was an "E" opening on 6 meters but didn't stay long.

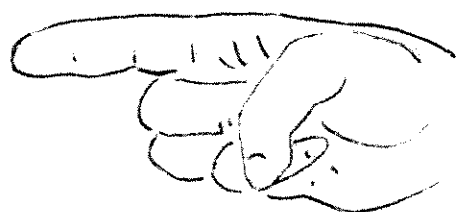
For those who have 29.6 FM gear the band has been open almost every day and just one heck of alot of fun. If you haven't tried it yet, do so, you will be very pleasantly surprised with the results.

If you have some information that you think might be of interest to this printing each month, please contact me and we'll make sure it gets in.

73s Rick WB7DTI

FIELD DAY

The meeting for Field Day '78 got off the ground Jan. 21st under the loud gavel of Clay K7CR. Clay has volunteered to act as moderator of the F.D. meetings and assist in any way possible to make F.D. '78 a success, but declined to act as chairman "on the site". His general comment was that the club was loosely organized last year and showed excellent results... let the Band Chairmen and committee heads run the show. Band Chairmen (Chairpeople?) are still needed, non-operating jobs are available, and operators are required everywhere.



80 cw*	---	?	VHF*	---	WA7HQQ
40-15 cw	---	N7NW & K7KOT	Novice	---	WA7HCP ?
20 cw	---	W7JWJ & WA7YCM	Foss generator	---	?
75 ph	---	?	Park & Park Ranger	---	W7JIE
40 ph	---	WA7RJT			
20 ph	---	K7CR			
15 ph	---	?			
10 ph*	---	K7YR & W7GPW			

NEW MEMBERS: Don't hesitate to volunteer to work a band, there are plenty of people who can help you get started. Dupers are needed too.

There will be more information on Field Day and its' function in the next issue. We will also go over the above info again at the next gen. meeting.

\$\$\$ \$ DUES \$\$\$ \$

JANUARY

WB7ACS	Bev	W7GPW	Jim	WA7RJW	Chris
WB7ABH	Larry	W7KCX	Dick	WA7SLO	John
L7BB	Bill	K7HF	Tim	K7SRX	John
K7CAI	Ozzie	K7KOT	Steve	WA7TAI	Gene
WB7DBZ	Sue	N7NW	Hal	WA7TBP	Tom
K7DCG	Dennis	WA7NXC	Les	WA7TQS	Denny
WA7EBH	Chuck	K7NZU	Dave	WA7UEW	Dick
WA7EKH	Ray	WA7OEE	Ron	WA7WMB	Janet
W7FOV	Al	WA7OEF	Chuck	WA7YIG	John
WA7GHZ	Ralph	N7PK	Dick	K7YR	Ken
		W7PRW	Carl	WA7ZLV	Chuck

\$ DUES cont. \$JANUARY cont.FEBRUARYMARCH

Diane Becker
Debi Holt
K7QMG Millie

WA7BBJ Gary
W7FHZ John
W7JWJ Harry
W7QGP Mary

WA7CRQ Jim
WA7LWP Al
WB7NRC Bruce
K7PHZ Jim
WA7TJT Chris

JUST A LITTLE HISTORY

It all started over a couple of glasses of booze. Someone said that I could put a repeater together and make it play, and I said that I didn't know anything about the workins' of a repeater but I was willing to learn, and that I did, I think. Well anyway, I started to read some books on how those boxes do what they do.

The first thing that had to be done was to get with the frequency coordinator and find out if there were any freq's left, he said there were none left on the two meter band so I had to go elsewhere, which I did. I went to the six meter band and got the freq. pair of 52.55-in and 53.55-out. That was all fine and dandy for the time being, little did I realize that the equipment would be hard to find.....

After finally finding something that would work on the band, I went to work too. Not knowing what to do next, I opened the book again and found that I needed a gadget called a cor, (now what the heck is a "COR"?). I read on and learned that it was not a cor but a C.O.R., Carrier Operated Relay.

Now that I had discovered what they do, I made one. It worked, but not as well as it was supposed to. So, I made another one. That one worked but still didn't do what it was intended to do, and that was to turn on the transmitter when the reciever came on with an incoming signal.

I let that subject go for awhile and started on something else..... the ID'er board. That was another failier! The first on that was built was taken out of "73" magazine from an article written by a fellow that had the call of W7PUG and lived in Seattle someplace. Well, I put it together and it worked but when it came to programming, that was another story..... sure it worked, except for one thing..... all it did was "laff" at me... It did work tho'...

In the meantime I started to look around for some way to make it transmit and recieve at the same time, on the same antenna (impossible! I said). I did find a way but couldn't afford the price of those "cans", and on six meters they are BIG! So much for that... I decided to do something else. A friend told me about the 220 meg band and that it would be easier to find radios for it. I took his suggestion and tried to find out all about putting a repeater there. The thing could be all solid state and the "cans" could and are a lot smaller than on six meters. So is the antenna!

By the way, the equipment for the six meter repeater was going to be

Motorola stuff and I do mean STUFF. I had some old 50-D's laying around the house and I was going to put that on the air.

Back to the freq. coordinator and I wound up with the pair of 222.62-in and 224.22-out (boy! what a lot of 2's).

By this time I had some idea of how the thing was supposed to work but I still didn't know what to do to make it go. I say that "VHF Engineering" had a repeater already made but it was too expensive for me to buy outright. So the next step was to scrounge up one part at a time, which took the better part of a year or so. In the meantime I had to come up with a license for it and find a place to put it... which I did.

It took almost one year to finally get the license in the mail. And darn near that long to find out how to get a hill to put it on. You can't put a 220 repeater at ground level and expect it to work too good at all. Well, I did get a place to put it and that was on top of TIGER MOUNTAIN, at just a little over 3,000 feet above sea-level. It went up in March of '77 and lasted for about one month when someone decided to take the antenna and coax down from the tower, (vandals or just someone that didn't want me to put a 220 meg repeater on Tiger, I don't know which!)

Well, that is all past history and done with. Now for more recent stuff.

The repeater was moved over to GREEN MOUNTAIN near Bremerton, Wa.

Soon after most of the bugs were worked out of the repeater, mother nature got a hold of it and most all the other stations on the mountain as well.

On the day before Thanksgiving '77, it was hit by lightning. The stroke came down the tower and took out lots and lots of gear including the 220 meg repeater. The lightning came down the tower and bored a hole about three feet wide and two feet deep in the rock that the ground rod was in.

I guess I was sorta lucky it didn't do to WR7AID what it did to other stations... blow them apart! It did blow the antenna apart and took four voltage regulators and three chips out of the ID board. In addition, it took out the power supply. Total wipe out!

WR7AID did recover from all this with no contributions from the users of this fine coverage repeater and it is still on the mountain with the coverage it once had, from Centrallia to Bellingham, from the Cascades to the Olympics and all around Puget Sound, welcome to WR7AID. WR7AID does NOT expect any donations and is on 24 hours a day. It is there for your use and to enjoy. So let's dust off those 220 rigs and use them.....

Starting on March 5th at 1300 hrs., there will be a Swap & Shop. This will be the first one of many I hope will be on every Sunday thereafter.

So, send a list of your "un-needed" or your "I would like to have" to WR7AID, S & S, 4221 SE 3rd Pl., Renton Washington 98055.

Please include your call, your name (first and last),

8.

address (or phone number), and the town in which you live. Those buyers are going to need to get ahold of you!

See you on the 222.62/224.22 repeater! And don't forget to send in your list for Swap & Shop.

Thank you and 73's

Bob Castaneda WA7UIF / WR7AID
4221 SE 3rd Pl.
Renton, Wa. 98055

FEBRUARY

11th	-----	ARRL frequency measuring test- January QST, pg. 91
14th	-----	W1AW qualifying run
18th & 19th	-----	DX competition cw YL/OM phone contest
22nd	-----	W1AW qualifying run
25th & 26th	-----	French phone contest



Mike and Key Amateur Radio Club
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Federal Way, Wa. 98003

First Class