

K7LED RELAY



The RELAY is the official tabloid of the Mike and Key Amateur Radio Club. The Mike and Key is dedicated to the growth and betterment of Amateur Radio. We meet the third Saturday of every

month at the Salvation Army Renton HQ, 720 Tobin St., near the SE corner of the Renton Airport. The Club operates repeaters on 52.05-53.05, 146.22-146.82 (PL 103.5), and 222.52-224.12 under the call K7LED. The following nets meet on 146.82: Club Net, Wednesdays at 7:30PM; Public Service Net, Thursdays at 7PM. The Club mailing address is: PO BOX 2121, Kirkland, WA 98083. All persons interested in Amateur Radio are invited to participate in the Mike and Key Amateur Radio Club and it's activities.

VOLUME 21

JULY 1993

NUMBER 7

PRESIDENT	- Chuck Stroehrer, WA7EBH	Tel:392-5303	TRUSTEE #1	- Chuck Benefield, N7STR	Tel:279-1517
VICE-PRESIDENT	- Nils Hallström, WB7TJK	Tel:242-8271	TRUSTEE #2	- Carolyn Pasquire, WV7Q	Tel:862-1157
SECRETARY	- Wayne Deviney, KB7OTS	Tel:235-8722	TRUSTEE #3	- Vaclav Sal, AA7EJ	Tel:668-7138
TREASURER	- Jack Burrell, KB7ZS	Tel:454-3617	TRUSTEE #4	- Jan Van Allen, N7WJB	Tel:824-9039
ACTIVITY MNGR	- Kevin Purcell, N7WIM/G8UDP	Tel:279-1517	TRUSTEE #5	- Michael Hansen, KG7MX	Tel:232-1069
RADIO OFFICER	- Ken Rau, K7YR	Tel:222-7711	EDITOR	- Michael Dinkelman, WA7UVJ	Tel:854-4031

RELAY EDITOR
MICHAEL DINKELMAN
637 2ND AVE S
KENT WA 98032

NEXT BOARD MEETING
August 3 7:30PM
Salvation Army HQ
720 Tobin, Renton

NEXT BREAKFAST
July 17 @ 7:30AM
Riverside Inn
14060 Interurban So, Tukwila

NEXT CLUB MEETING
July 17 @ 10AM
Salvation Army Renton HQ
720 Tobin St, Renton
Doors open at 9:30AM
Program: Amater Radio Video

PETE HEDBERG
K7WTG 01/94
20904 NE 77TH ST
REDMOND WA 98053



M&K PICNIC, SUNDAY, AUG 22
RCT FLEAMARKET, AUG 14

DEADLINE FOR AUGUST RELAY SUBMISSIONS - AUGUST 5
CHECK MAILING LABEL FOR DUES EXPIRATION DATE

The Prez Sez

Submitted by Chuck, WA7EBH



Field Day is over for another year. For those that missed it, it was a fun time. Lots of new faces showed up this year, and a good time was had by all at the Friday night party. From what I have heard, it sounds like we may have done better this year in the standings. We'll just have to wait and see.

The next social event is the picnic coming in August. See details elsewhere in the Relay. I hope that everyone will be able to make the event.

The Seafair season is upon us again. Anyone wishing to work the parades please see me at the meeting. Listed below is a schedule of the parades for those who may have lost theirs:

SATURDAY, JULY 17 @ 8:30AM
REDMOND - 146.58 SIMPLEX TALKIN

SUNDAY, JULY 18 @ 12:00 NOON
KENT - 146.58 SIMPLEX TALKIN

SAT. JULY 24 @ 4:00PM
DES MONIES - 146.58 SIMPLEX TALKIN

SUNDAY, JULY 25 @ 5:00PM
CHINATOWN - 146.58 SIMPLEX TALKIN

MONDAY, JULY 26 @ 5:00PM
UNIVERSITY - 146.58 SIMPLEX TALKIN

WEDNESDAY, JULY 28 @ 4:30 PM
GREENWOOD - 146.58 SIMPLEX TALKIN

FRIDAY, JULY 30 @ 5:00PM (OR EARLIER)
TORCHLIGHT 146.96 REPEATER (-600 KHZ)
TALKIN FOR DIRECTIONS TO PARKING AREAS
AND INFORMATION.

SATURDAY, July 31 @ 4:00PM
LAKECITY - 146.58 SIMPLEX TALKIN.

SATURDAY, August 7 at 8:00AM
BELLEVUE - 146.58 SIMPLEX TALKIN.

SUNDAY, August 22 @ 9AM
AUBURN - 146.58 SIMPLEX TALKIN.

Well, that's it for this month, see ya at the meeting. 73

Treasurers Report

Submitted by Jack, KB7ZS

The Financial report for June is noted below:

INCOME/EXPENSE

INCOME

Dues	228.50
ARRL	2.00
Raffle Profit	25.00
TOTAL	\$ 255.50

EXPENSE

Relay	54.20
Picnic Res.	39.00
Generator	36.89
Field Day	667.16
Officers exp	21.53
Tents	362.76
Miscellaneous	850.16
TOTAL	\$ 2,031.70

EXCESS/DEFICIT \$ (1,776.20)

NOTE: Miscellaneous includes Public Relations expense of gift to Mel Melton - \$650 and Field Day Plaques - 154.90.

All requests for checks should be presented, in writing, at the next general or board meeting. Please include your CALL on all requests, checks, when paying your dues, and any other correspondence. Thanks, Jack, KB7ZS 454-3617

Activities

Submitted by Kevin, N7WIM



The following activities are scheduled for the benefit of the Mike & Key members and their guests.....

July 17 - Club Meeting Program, By popular demand, the "other" introduction to Amateur Radio video (with an international flavor).

August 21 - Club Meeting Program, Antenna Tuners. Program by K7GCO.

August 22 - Club Picnic, Lake Meridian in Kent hosted by Mike, WA7UVJ

Picnic News

Submitted by Michael, WA7UVJ

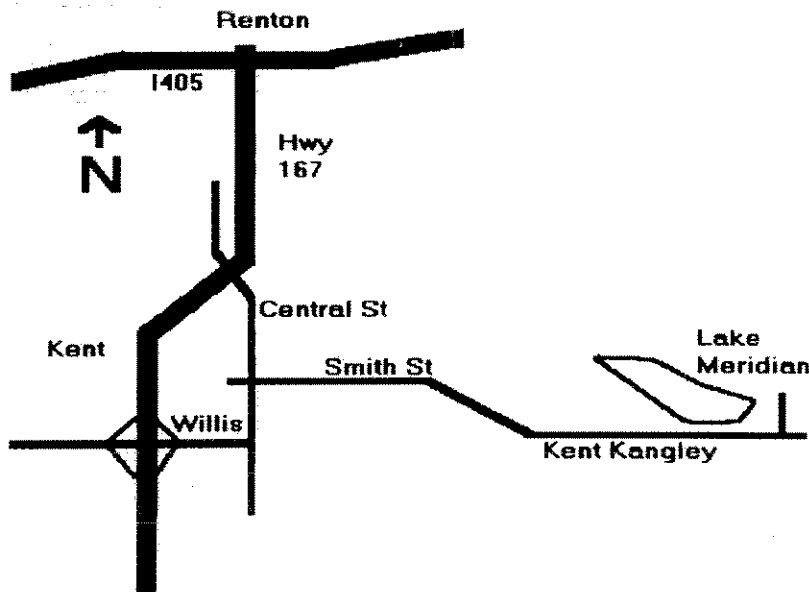


Ahh! I can see, smell, and hear it now... the sparkling blue waters of the lake, the smell of clean air and suntan lotion, the sound of sizzling burgers and hotdogs.... or is that the sound of a fire extinguisher putting out the BBQ? Either way, the Mike & Key ARC Summer picnic is coming up fast so don't forget to mark your calendars for..... Sunday, August 22. Surely it will be one of the nicest days of the year.

OK, OK, I know that last month I said Saturday, August 28th. Well, the friendly people we were going to share the shelter with were not quite as friendly as the Parks people thought. In fact, when they heard they had to share, they rose quite a stink. So.... the really nice Parks people offered us the preceding Sunday and I thought it best we take it. One nice thing about the change, we are supposed to get the whole shelter to ourselves because of the inconvenience. Note: whoever takes the picnic next year should get started about.... January, as picnic areas are getting snapped up quite early these days.

The picnic will be held at Lake Meridian Park in Kent (directions below). It's a new facility and quite nice. There is swimming and boating (if you got one). The Club will provide the main entrees and beverages. The rest is potluck and up to you (think of it as a close-in Field Day Party). There are signups at the Club meetings or you can give me a buzz on the phone. The festivities will begin at 11AM and end when we do (or when we get kicked out). Whatever you do, don't forget the kids and grandkids. A special attraction will be a prize for the best (worst?) Hawaiian shirt with the winner picked by the picnic participants.

Remember, Sunday, August 22nd, 11AM.



Directions: Head south or north on the Valley Freeway (Hwy 167) towards the City of Kent. Once you have reached Kent, you may approach Smith Street from two directions.... 1) from the north by exiting Hwy 167 on to Central or 2) from the south by exiting Hwy 167 on to Willis then going east to Central. Alternatively, if you are west of Kent, come down the Kent-Des Moines road from the I-5 Freeway and this leads directly into Willis Street.

Head east on Smith which goes up a long steep hill (Canyon Drive). You will pass the Benson Hwy (104th Ave) and continue on to Kent-Kangley which is the main road headed East out of Kent (two lanes most of the way to Lake Meridian). It is approximately four miles from the time you get on Smith until you reach Lake Meridian Park. Of course, the two meter repeater will be available for talk-in as necessary (or better yet, follow the smoke of burning burgers).

**Puzzles to Fry
your Brain By**

Must be something about the summer. Here are a couple of submitted brain teasers (*This goes to show you that I will print virtually anything!*)

- 1) This one is from the last Club meeting courtesy of Harry Lewis/W7JWJ.

"DO YOU HAVE 'K' FORMULAS FOR YAGI ANTENNAS?"

- 2) This one is courtesy of Dawn Humphrey, XYL of Dan, N7QHC.

With all the countries represented in our membership, is there anyone who can translate the following?

(Any CW buff can get this one easy - Editor)

THE RADI OISA NAW SOM ERIG TOSPE AKBOT
HFA RAN DNE AR. COM ESITW ITHUS AN
DJAW AWHI LEAN DLIF TACU PINC HEER.

AMA TEU RSF RIE ND, QHC

By-Laws

Submitted by Ray, WA7EKH

The following admendment to the Mike & Key By-Laws is proposed, July 6, 1993

The undersigned recommend:

that the CPA audit be removed from the By-Laws

Ray Leslie
Nils Hallstrom
Michael Cross

Please see the related information as printed in the Board Meeting minutes elsewhere in this Relay - Editor

FOR SALE

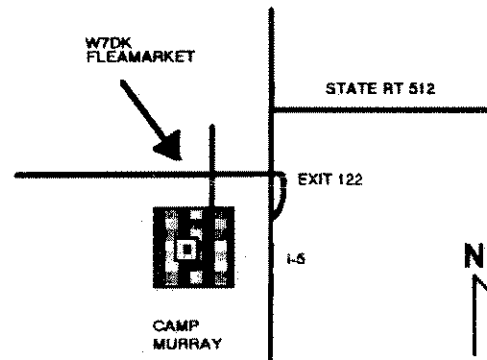
ROHN 25G FOLD OVER HINGE, STRONG BACK
WINCH AND CABLE. NO TOWER SECTIONS.
\$400, K7NGX, 246-2924

Radio Club of Tacoma Fleamarket

Submitted by Michael, WA7UVJ

The Radio Club of Tacoma has moved up their annual Electronics Flea market to August this year. This is the first time, for as long as I can remember, that a RCT event doesn't fall on our monthly Club meeting date. If you are looking for some particulary good junk box goodies, this might be the place to go.

Where: Camp Murray (south of Tacoma)
When: Saturday, August 14, 9AM to 3PM
Admission: \$4 (12 and under - free)
Tables: \$15 (includes one admission),
Commercials \$40
Talk-in: 147.28R
Info: (206) 845-8346 or
(206) 475-7413 (eves)



While we on the subject of Flea Markets, the OFFICIAL date for the 1994 M&K Electronics Show and Fleamarket event next year will be..... MARCH 12. That's right, we are back on the second weekend (after some initial confusion as to when to start counting weekends). Flyers are available and reservations are being accepted.

A Bad Limerick
by the resident poet

There once was a Ham named Sam,
who's degree in English was surely a scam.

For whenever he arrived, his trip terminated,
he would sign off with "I am destined".

Intolerance

Submitted by Kevin, N7WIM

Copyright (c) 1992 Joe Mastroianni. All Rights Reserved.

This was found on one of the computer networks. I think its worth thinking about. Even in our group we have hardened CW nuts (can't think of any names!) and probably rabid no-coders too!

A few days before Field Day I mentioned on a local repeater that I was going to take part in that most beloved of all American Ham rituals. The fellow I was speaking to was a dedicated VHF emergency responder. The mere mention of Field Day sent him into spasms.

"Contests! I can't STAND CONTESTS! All contests do is clog up the HF bands for days on end!"

In my first months as a Ham I heard criticism leveled at every subgroup of Hams by every other subgroup of Hams. There is a formula for this. It is: the sum of all integers from 0 to n-1, where "n" is the number of ham subgroups. Think of it this way: imagine you're at a family gathering and everybody in the room wants to kiss everyone else goodbye. If there are six people in the room, there will be 15 separate kisses because $5+4+3+2+1+0=15$.

Let's relate this to human clique behavior. Let's say you have four groups: the jocks who play football, the popular kids who have all the parties, the smart kids, and the quiet kids nobody knows. If each of these groups decides to razz each of the other groups, there will be $3+2+1=6$ separate razzings. Extrapolating normal human behavior to Hamming means that in your Ham career you can expect to be accused of clogging the bands with idle drivel about a million times. You, as a normal member of the human race may actually accuse someone else of clogging the ham bands once or twice yourself. Think about this. Pick up the callbook, both international and North American versions. Look at all of those people you will have to put up with.

DXers accuse rag-chewers of occupying valuable spectrum that could be used for ultra weak signal Mars-bounce DX. Ragchewers despise DX pileups that prevent them from discussing domestic weather patterns and peak rig output. Contesters loathe operators who don't give the appropriate exchange in 0.3 milliseconds.

The fellow who accused Field Day participants of clogging the airwaves thought nothing of spending an entire weekend monopolizing a wide area coverage repeater in the San Francisco Bay area for a practice run of the Botz Beer long distance bicycle push. For this he is cursed by HT-carrying aficionados of that repeater. This

behavior is evident in conversation ABOUT Ham radio as well as Ham operation itself. Some hardened, weather-worn, CW ops dislike no-coders. Some long-time SSB'ers feel CW ops can't generate enough logical thought to fill a two-minute segment of casual 100 WPM conversation. Many non-extra-class hams feel the lower 25 KHZ of each band segment would better serve the international community if allocated for exclusive use by drug traffickers. With all of this bile and venom on the airwaves my naive XYL asks, "Who do you talk to if you don't like anybody?"

The answer is obvious. We talk to our friends. These are the people we like because they hold the same views we hold. It may seem to new hams that it's important to gain friends by quickly developing a vocal dislike for some group of hams. I don't remember the questions on the license tests about sub-group affiliation. But perhaps, you do. I think it went something like:

It is OK for me to QRM a bozo when:

- a) It's a DX station you already have confirmed.
- b) It's the guy on the repeater who always says "we" instead of I
- c) It's the jerk with the accent again and you have a schedule.
- d) It's a contest and you need to clear a spot to call the Lower Slobovian DXpedition.
- e) Only as specified in the ARRL handbook

Of course, I am only kidding about all of these things. We welcome all new Hams to our universal techno-family of peace as long as they don't plan to put a repeater on 2-meters or ragchew on 14200 during the next Bhutan operation.

Joe Mastroianni, AA6YD

Comments from the Editor -

We all have seen, heard, and possibly participated in the above discussed subject and it would be well worth for each of us to review our own attitudes. However, in reading the introductory comments I fear that my "hardened CW nut" attitude may have upset some people within the Club.

In all seriousness, it is easy to cross the line from enthusiasm to an appearance of intolerance. If that indeed has happened, I sincerely apologize. Now, that aside, you are REALLY in for it.... where's my Key?... real Hams let their fingers do the talking... ding dang silly sidebanders clogging up the airways with their wideband signals.... tell ya what I'm gonna do... rabid indeed... ha!

Field Day Ramblings

Submitted by Michael, WA7UVJ

Whoa! now that's what I call a Field Day. Good propagation, reasonable weather, a shortage of CW ops, and mosquitoes large enough to carry off small dogs. Hope you had fun, I did. Well..... at least I did on the parts I remember. Things get kinda get blurry between 1AM and 7AM Sunday morning.

Down on the Beach, CW Beach that is, we had some interesting happenings.

Right off the starting block we lost Frank/KA7QHG's radio on the 15/40 station. Weird failure too. The longer you transmitted, the longer it would take to recover the audio. Out came the backup rig. Hope your rig is working OK now Frank.

For years, the ops on the bluff used the "Spalding" tower. This year, with all the new tower sections, they put it on the beach. Next year guys, forget it, if I wanna do the "twist", I'll do it on the dance floor.

On Forty, I put up phased verticals. This required a "T" connector for the two phasing lines and the feedline. Well, I borrowed the feedline to test another antenna and when I returned, the "T" was gone and replaced with a barrel connector. Where was my "T"? I searched high and low and yelled a lot before borrowing another to replace it. Next time I operated the 15/40 station, there it was, lying in the connector box. The perpetrator (who shall remain unnamed for now) confessed that he "couldn't figger out why we had a "T" when a barrel would do". Ahh Field Day!

By the way, the verticals worked great. We got into the East Coast loud and early. A couple hours into the operation the SWR did bump up a little but we zipped that out with the 'ol tuner. An hour later, Frank came running in. Seems some guy got a 14 pound salmon out on the beach. Real nice! Oh, by the way he tells Frank, your front pole "thinga magig" fell in the water when the tide came in. No wonder we did so well, we were loading up half of Puget Sound. Back to a single vertical, it was nice while it lasted.

Ever wonder what happens to your creativity at 2AM in the morning? Nils/WB7TJK and I were doing our thing but things were kinda slow (after all it was 20 meters). Seeing a pair of sunglasses, I added an inverted bowl with eyes drawn on them, expressing my artistic talents. At that point, Nils showed his true artistic genius and added a

Cheetos cheese noodle where the nose should belong. At that point, we lost it. Two grown men laughing in the middle of the night at a pair of sunglasses, bowl, and cheese noodle. It was time for bed.

Enough about the CW Beach. I'm sure things were happening like that all over (I just wish people would write about 'em) When I visted 40 SSB at 10PM they were laughing too but nobody let me know why, at least we lasted until 2AM.

The Potluck was surely a success. Hats off to Tilley, XYL of Vic/WB7TBR for the idea of butcher paper on the picnic tables. Seems like such a simple idea, and it worked great but I wonder why it took us 5 years to figure it out. Additional thanks to you who brought all that wonderful food to augment the 30 lbs of burgers and 10 lbs of hot dogs the Club chipped in. Ever seen three guys cooking on one grill?? If not, you missed quite a sight as Vaclav, Dean, and myself were doing an assembly line process to get food cook fast enough. Worked great!

It looks like Little John's chili isn't the only dish starting to develop a reputation. The Cajun food Lee/KG7OW and his wife bring is becoming widely anticipated as well. Who brought the killer chocolate dessert? That wasn't very nice as I almost overdosed on that. All in all, very good food and company.

Remember when you were a kid and you always had to play in the fire? Add to that the traditional burning of marshmallow's and it brought back a lotta memories. Isn't it amazing that the kids are always so surprised that we old folks have heard of delicacies such as 'somores'. Maybe we aren't as old as we like to believe.

Well, enough of my ramblings. Guess I had fun. Hope you did too. Looking forward to Fort Flagler in 1994.

Field Day MVP

Submitted by Michael, WA7UVJ

Each year, after Field Day, the Board gets together and selects a person that typifies the Field Day team player. This is the guy or gal that seems to be everywhere, helping out, operating, and enthusiastic (a little grumbling is allowed).

This year, that person is Nils Hallström/WB7TJK. (see I got the umiou in there Nils). Nils was all over the upper site during setup and even made floors for the new tents. Then, he actually had the audacity to come down to the lower site and bone up on his CW for most of the night. (Of course, his artistic abilities have already been discussed and I won't tell a soul about the successful hotdog bribery on Sunday morning.)

Congratulation Nil's - Mike and Key Field Day Most Valuable Player - 1993. Award to be presented at the Annual Awards Banquet.

Buzzzz Buzz Buzzzz Buzz

Submitted by Michael, WA7UVJ

Compiled from the Dink newswire service

Nordland, WA - From this small town on the Olympic Peninsula in Washington State, strange events have occurred that will help ensure this area a place in the record books of entomology. Starting in the latter part of June of this year, huge swarms of mosquitos began taking to the air every time the Rangers at the local State Park used their radios. This phenomenon soon spread to every part of the local district known as Marrowstone Island.

Scientists are at loss to explain the cause but have acknowledged that using a radio in the area is guaranteed to cause a new sensation known locally as "blackout" (named after the similar but opposite effect of a "whiteout" in snow country). Oddly enough, the insects make no attempt to harm the radio operator and dispersal is almost immediate as the swarm looks for a new source of radio signals when ever the current transmission is over.

These facts are known. The effect began shortly after a local radio group used Fort Flagler to stage their Field Day operations. Apparently, there were dozens of Amateur Radio Operators in the area at the time. In addition, the area was bathed in radio emissions throughout the three day Field Day period.

Some have theorized that the mosquitos have picked up a virus from the legions of radio operators present during this period. This supposed virus, nicknamed r.f.itis for now, would have spread throughout the mosquito population as new generations were bred. Scientists are now checking the DNA of sample mosquitoes and comparing them to the DNA of the Ham Radio Operators. Possibly there is a link between humans and mosquitoes both being drawn to radio. Until then, the world awaits an answer for this true wonder of nature.

Flash Bulletin!!

Apparently the mosquitoes are attempting to communicate with the locals! A faint but distinct pattern of organized buzzing has been detected by local radio operators capable of interpreting the Morse Code. When carefully listened to, the buzzing takes on the form of dots and dashes. At this time only the letters C, Q, F, and D have been detected. It is hoped that, in time, a meaning will be found to account for this combination of letters.

**MultiBand Wire Antenna
By Ed Humphries - N5RCK**

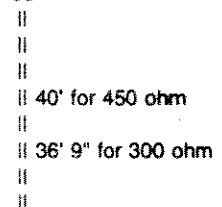
Submitted by Kevin, N7WIM

The March 1991 issue of CQ Amateur Radio contained yet another discussion of multiband wire antennas. In his column "Radio FUNdamentals", Bill Orr, W6SAI writes about the original W9CXX multibander with its complex copper tubing matching section. He then goes on to discuss the popular G5RV developed by R. Varney, which is widely built and commercially available. Orr points out the deficiencies of the G5RV: when built in the original design it delivers reasonable SWR on the 7, 14, and 24 MHz bands, but into a 75 ohm coax feedline that is awkward to load up on modern transceivers; when built with 50 ohm coax the SWR is poor on all bands, but it performs reasonably well when used with a "transmatch" antenna tuner.

The column skips over an intermediate antenna design discussed in the March 1986 issue of Ham Radio. Bill's column back then pointed out that W5ANB first proved you could successfully modify the G5RV, load it with 50 ohm coax and run without any antenna tuner. But the best design he discusses in both articles is the one by ZS6BKV. Brian Austin used computer modeling to help him design a 5 band tuner-less antenna. Orr's CQ column reprints the design using only the dimensions for a 300 ohm matching section (I presume TV flat lead qualifies). In his original column Orr also presented the figures for using 400 (handmade open-wire leads) or 450 ohm (ladder-line) as the matching section. Since 450 ohm ladder-line is somewhat stronger than the commonly available 300 ohm TV lead-in, I'm here giving both sets of figures so you can make your own choice.

<- 90'3" for 450 ohm matching section or 92'2" for 300 ohm ->

The ZS6BKV Antenna



At the end of the matching section Orr recommends a 1:1 balun; others would say that several loops of coax at the feedpoint will do as well to help keep rf off the feedline. The feedline to the transceiver is common 50 ohm coax; RG 58/U is fine for hf for most runs. This antenna should give low SWR on 7, 14, 18, and 24 MHz bands. At 28 MHz the SWR is really only good from 28.5 to 29.0. Tests showed the best SWR curves when the antenna was erected at about 42 feet above ground. When run as an inverted-V (90 degree) the resonant frequency came down 80 kHz for 14 MHz and 125 kHz for 24 and 28 MHz. The March '86 article printed SWR curves, and the March '91 article printed field patterns for all 5 covered bands.

Board Meeting Minutes

July 7, 1993

Board members present were Chuck/WA7EBH, Nils/ WB7TJK, Jan/N7WJB, Michael/KG7MX, Vaclav/AA7EJ, and Ken, K7YR. A visitors list was not available for publishing.

The meeting initially began as an un-official meeting as there were not enough members present to constitute a quorum. Upon the arrival of Ken at 7:50PM a quorum was available and the meeting was presided by Chuck. No official business was conducted until the quorum was present.

Reports

Mike/WA7UVJ -

Introduced new flyer to acquaint new and relocated Hams to the Mike and Key. It is the intention to eventually have the publicity committee send these per the new license list given to us by the ARRL on a monthly basis. Final form to be ready by Club meeting with changes recommended by Board.

A general discussion was held on a proposal to change meeting times to 9:30AM on Saturdays. The Board members voted to recommend leaving the start time at 10AM.

Chuck/WA7EBH for Jack/KB7ZS -

Gave report of treasury status, breakdown elsewhere in Relay.

Nominations were given for the Field Day MVP Award. Nominations included Nils/WB7TJK, Dean, N7NKO, and Mike/WA7UVJ. After discussion, Nils was the overwhelming choice.

Ken/K7YR -

Discussion of 220 repeater youth proposal and general state of youth access to area repeaters. It was recommended that a trail period be established for this proposal as well as an attempt to start a half hour Youth/Technical Net at 7PM on Wednesdays, just before the regular Net at 7:30PM.

Requested a thank you letter and certificate be sent to John/K7KGP for his donation of the crank up tower now installed on the Club antenna trailer.

Nils/WB7TJK -

Membership applications brought before the Board and approved: Virginia Bryant/W7WNS and Larry Price/KB7RLG

Ray/WA7EKH -

Discussion regarding proposed requirement in By-Laws for full blown CPA audit of Club Books. General conclusion was that a full CPA audit would be extremely expensive (several thousand dollars) and unnecessary. It should be noted that the Club By-Laws already provide for an auditing process.

It is the recommendation of the Board that the general membership recind the admendment to the By-Laws requiring an outside audit and that an audit per provision 9.03A of the By-Laws of the Mike & Key ARC be enforced and performed.

The Club generator trailer experienced some graffiti over the holiday weekend. Requested and was granted funds for paint to repair the damage.

Vaclav/AA7EJ -

Moved that fees paid by members staying in the barracks be

refunded (approx \$20 total). Motion died for lack of a second.

Wanted to know when sponsorship line would be added to membership application. Nils to modify application form.

Some discusiion of Field Day results. Still awaiting several band reports.

Mike/WB7AYU -

Discussion of Field Day results

The meeting was adjourned at 9:40

(My extreme thanks to Jan/N7WJB who performed duties on minutes. - Editor)

Contesting is Fun!

Submitted by Michael, WA7UVJ

Did ya have fun at Field Day? Did ya know you can find that same type of fun almost weekly (if your poor body and soul could handle so much pleasure)? As an added bonus, you might bump up your DXCC total because some contest really rev up the activity from rare areas. Check out these contests over the next few weeks. Some are big, most are small. You can usually find rules in your nearest QST or CQ magazine. Beware that it may be hard to find much activity for the smaller contests. (contest types, small, medium, binnie)

July 17-18	-s	Colombian Independence Day Contest
	-m	SEANET CW Contest
July 24-25	-s	Venezuela CW DX Contest
August 7-8	-s	YO DX Contest
August 14-15	-b	Worked All Europe CW Contest
August 21-22	-m	SEANET SSB contest
Sept 4	-s	Panama Anniversary Contest

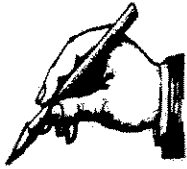
When was the last time you worked Panama, Columbia, or Venezuela? I know MOST of you haven't. SEANET contests are great for South East Asia and you could probably fill out your needs for European QSL's by playing in the WAE.

Do you have to be a serious contester or send in logs? Heck no! Just search and pounce a couple hours, taking what you need, especially near the end of the contest when the big boys get desperate for contacts and are willing to dig out the weak ones.

To make it even easier, if you have a computer, use a logging program to take out any hint of drudgery, or even send CW for you. Yup! contesting is a lot of fun. Or, the garden looks like it could use some weeding about now....

From the Writers Block

Submitted by Michael, WA7UVJ



As this Club takes its place as a leader in the local Amateur scene, it is important that we reach out to new and relocated Hams in the area. As an ARRL Special Service Club, we receive a monthly listing of all new licenses issued in specific Zip codes. It has always bothered me that we didn't reach out to these Hams (on a consistent basis) and at least let them know we existed and that they were certainly welcome to check us out.

So, the flyer, Introducing the Mike & Key ARC, which you will find elsewhere in this Relay was born. I've been working on for some time but it just never seemed to get done. Possibly, I wasn't really certain I wanted to take on any more responsibilities than I can already handle; however, the formation of a permanent Publicity Committee has provided the impetus for completion. As shown in the Board minutes, I showed it around and have made a few changes. Undoubtedly, things can be modified, added, or deleted later as determined by the Committee.

It is hoped that the Publicity Committee will make monthly mailings, perhaps with a copy of the Puget Sound Amateur Radio Guide. We can certainly afford the postage. You may notice that other Clubs in the area are also mentioned in the flyer. We shouldn't be so self-centered as to believe the Mike and Key is the Club for everyone. However, we should steer newcomers to help, where ever they can find it, even if it's another Club or (heaven forbid) a Repeater Group.

Feel free to make copies of the flyer and pass it among any new Hams you may come across. You might even find a few Old Timers interested in the best Amateur Radio Club running.

At this time, it is my intention to run a full roster in the next Relay. If you have any doubts as to the status of your address or other particulars, you may wanna check 'em out with Jack at the next meeting. Enough for this month. Remember..... WRITE!

Who's Who of the Mike & Key

Submitted by Michael, WA7UVJ



Got a Club related problem but do not know who to go to get it fixed? Maybe you are just curious who handles the details that actually make this Club tick? Well, of course, there are the regular Board members listed on the front of the Relay. They might be able to help. More

likely, they will send you to one of the following.

REPEATER COMMITTEE and CONTROL OPERATORS

Ken Rau (K7YR)
Jack Burrell (KB7ZS)
Chuck Stroehrer (WA7EBH)

PUBLIC SERVICE

Chuck Stroehrer (WA7EBH)
Wayne Moddison (K6DOW)

VE EXAMS INFO

Jim Christiansen (K7ND)
Michael Dinkelman (WA7UVJ)
Mary Lewis (W7QGP)
Rick Antes (KF7VG)

ELECTIONS COMMITTEE

open

1994 FIELD DAY CHAIRMAN

open

LONG RANGE PLANNING

Rick Antes (KF7VG)
Carolyn Pasquier (WV7Q)

NEWSLETTER SUBMISSIONS and MAILING

Michael Dinkelman (WA7UVJ)

BADGES, JACKETS, T-SHIRTS

Nils Hallström (WB7TJK)

CLUB PROGRAMS and SPECIAL ACTIVITIES

Kevin Purcell (N7WIM)

CLUB NETS

Frank Krieger (KA7QHJ)

FLEAMARKET PLANNING

Chuck Stroehrer (WA7EBH)
Hal Goodell (N7NW)

MEMBERSHIP APPLICATIONS

Nils Hallström (WB7TJK)

1994 PICNIC

Michael Dinkelman (WA7UVJ)

Soon to come, the Chairs of the permanent standing Committees including Technical and Special Interest, Public Service, Education and Training, Strategic Planning, and Facilities and Publicity. All members are encouraged to get involved, if only to support a Committee. After all, it is YOUR Club.

MIKE & KEY ARC CALENDAR

July 11 - August 14, 1993

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
July 11	July 12	July 13 7:30pm WWDXC Meeting	July 14 7:30pm Club Net on 146.82 Repeater	July 15 7:00pm Public Service Net 7:30pm PARS Meeting	July 16	July 17 7:30am Club Breakfast 8:30am Redmond Parade 10:00am Club Meeting 1:00pm VE Exams
July 18 12:00am Kent Parade	July 19	July 20	July 21 7:30pm Club Net on 146.82 Repeater	July 22 7:00pm Public Service Net	July 23	July 24 4:00pm Des Moines Parade
July 25 5:00pm China Town Parade	July 26 5:00pm U District Parade	July 27	July 28 4:30pm Greenwood Parade 7:30pm Club Net on 146.82 Repeater	July 29 7:00pm Public Service Net	July 30 5:00pm Torchlight Parade	July 31 4:00pm Lake City Parade
Aug 1	Aug 2	Aug 3 7:30pm Club Board Meeting	Aug 4 7:30pm Club Net on 146.82 Repeater 7:30pm Issaquah ARC Meeting	Aug 5 VE Exams (KF7QF) 7:00pm Public Service Net 7:30pm Flea Market Meeting	Aug 6	Aug 7 8:00am Bellevue Parade 9:00am Boeing ARC Meeting 1:00pm VE Exams - Kent (KF7VG)
Aug 8	Aug 9	Aug 10 7:30pm WWDXC Meeting	Aug 11 7:30pm Club Net on 146.82 Repeater	Aug 12 7:00pm Public Service Net	Aug 13	Aug 14 8:00am SeaTac Repeater Group 10:00am VE Exams - Riverside Inn 1:00pm NAPRA Meeting

Introducing the
MIKE AND KEY
AMATEUR RADIO
CLUB



The Mike and Key Amateur Radio Club is a Seattle area organization devoted to all aspects of Amateur Radio Operation. This sheet is intended as an introduction to the Club for new and relocated Amateur Radio Operators in the area as well as a guide for prospective members. All information is subject to change and provided with no guarantee of accuracy.

THE CLUB

The Mike and Key Amateur Radio Club was initially founded in 1963 under "Pop" Brown, K7LED, and was in existence for 5 years before disbanding due to a lack of activity. In 1970, it was reorganized and has remained as one of the most active and viable Radio Clubs in the Seattle area for over twenty years.

Activity in the Club is as varied as the hobby of Amateur Radio itself. Within the Club there are groups that engage in Public Service, Contesting, DX, VHF/UHF, SSB, CW, Construction/Experimentation, Packet, and Traffic Handling. While the Club cannot be everything to everybody, it does provide a base of support for most radio interests.

Within the membership are many of the prominent "doers" and "shakers" of Pacific Northwest Amateur Radio. Members are encouraged to be "active" in the Hobby, the Club, and the Community.

MEMBERSHIP REQUIREMENTS

The Mike & Key is open to all persons interested in Amateur Radio, whether licensed or not. The Club currently consists of approximately 160 members. Membership applications may be obtained from the Vice-President at the General Membership meeting. Applications are

submitted to the Board for review and, upon approval, presented to the general membership for final election. Dues are \$12 yearly. Family Memberships are available for multi-member households.

GENERAL MEMBERSHIP MEETINGS

The Mike & Key Amateur Radio Club holds a General Membership meeting the third Saturday of each month. Meetings are held every month of the year. Currently, the membership meeting is held at the Renton Salvation Army Headquarters building at 720 Tobin Ave South, Renton. This location is situated at the southeast corner of the Renton airport, behind the McLendon's Hardware store.

The building is open for socializing, coffee, and doughnuts at 9:30AM and the meeting starts at 10AM. Membership meetings generally consist of Officer and Committee reports, a half hour program related to Amateur Radio, and a raffle. A short break is held mid-meeting. All persons interested in Amateur Radio are invited to attend Mike & Key meetings.

OFFICIAL CLUB ADDRESS

The Club maintains a Post Office box as its established mailing address. Please direct all correspondence to this address and it should be used for all official Club business. The address is POB 2121, Kirkland, WA, 98083.

CLUB CALL - K7LED

Formerly the call of our founder "Pop" Brown, the Club requested and received the call K7LED. The call is reserved for Club operations and repeaters. The call may be used by members for special events after receiving permission of

the Radio Officer and a copy of the Club License.

REPEATERS

The Club operates three FM repeaters under the call K7LED. These are located on the six meter band (52.05/53.05), two meter band (146.82/22), and the 220 MHz band (224.12/222.52). The Club does not operate a 440MHz repeater. The two meter repeater requires a tone squelch signal (PL) of 103.5 for access. These repeaters are open to all amateur radio operators and no donations are accepted towards their operation. In addition, the Club prefers that prospective members do not join if their only intention is to "just support the repeater".

CLUB NEWSLETTER

The Club publishes a monthly newsletter, the K7LED RELAY for the benefit of its members. It is used to disseminate current and upcoming events within the Club and about the local Amateur Radio scene. All members are encouraged to submit material for the RELAY. Samples may requested by contacting the Editor and are usually available at the General Membership meeting as well.

SOCIAL EVENTS

It is recognized that social events, both radio and non-radio, are important to the well-being of the Club. These functions are limited only by the imagination and willingness of members to participate. Regular functions include a Summer Picnic, Christmas Party, an Awards Banquet, and participation in Field Day. On occasion, members have banded together for bowling parties, pizza bashes, and even a cruise on the state ferry system.

AMERICAN RADIO RELAY LEAGUE

The Mike & Key is an affiliated club of the ARRL. In addition, the Club has Special Service Club status which entails specific benefits and responsibilities towards the Amateur Community. All members are encouraged to become members of the League.

CLUB BOARD MEETINGS

The Officer's and Trustee's of the Club hold monthly meetings on the first Tuesday of each month to transact the Club business. These meetings are also held at the Salvation Army Headquarters Building in Renton. Board meetings start at 7:30PM. All Mike & Key members are invited to participate in the Board meetings.

MIKE & KEY BOARD AND ELECTIONS

The Club has a Board of Officers and Trustees to run the organization. There are six officers and five trustees. All positions are open to election except the Radio Officer position which is appointed. Officer positions are for 1 year and Trustee positions are held for 2 years. Odd numbered trustee positions are filled in odd year elections and even numbered positions are filled in even years. Elections are conducted at the March general meeting.

CLUB NETS

A weekly Net is held on the Club 2 Meter repeater each Wednesday at 7:30PM. All Hams, members or not, are

encouraged to join in. It is an informal Net (no traffic is passed) to exchange news about Club activities, Club members, and to announce upcoming activities. Up to two items may be listed for sale or trade during the Net.

Two other Nets make use of the Club 2 Meter repeater. The Puget Sound Traffic Net at 5:30 and 10:30PM daily, and a Public Service Information Net on Thursdays at 7PM. Users of the repeater are encouraged to free up the frequency for the short times these Nets are conducted.

ELECTRONICS SHOW AND FLEAMARKET

One of the largest annual Amateur Radio event in the Pacific Northwest is the Mike & Key ARC Electronics Show and Flea Market. Held on the Western Washington Fairgrounds during the first part of March, up to 3,000 Hams and non-Hams alike are drawn to a modern 40,000 square foot facility with room for over 300 tables selling radios, computers, and general electronics equipment. To successfully conduct this event each year requires the participation of the entire Club membership.

FIELD DAY

The Mike and Key ARC Club is proud to have participated in the ARRL Field Day Event for over twenty years, the last eighteen at Fort Flagler near Port Townsend. A unique site, holding our Field Days at Fort Flagler allows it to be a social as well as radio event that the whole family can participate in.

CONTACT PERSONS

Feel free to contact the following persons for other information regarding the Mike & Key ARC

- Michael Dinkelman, WA7UVJ
(206) 854-4031 (6-9PM)
- Ray Leslie, WA7EKH
(206) 821-4188

OTHER AREA CLUBS

New Hams in the area will often find Club affiliation beneficial. If the Mike & Key doesn't fit your needs, there probably is a Club somewhere in the area that will. The following are just a few of the possibilities.

Issaquah ARC (General Interest Club)
meets first Wednesday, monthly, in Issaquah
contact: John, 392-7623

Puget ARS (General Interest Club)
meets third Thursday, monthly, in Bellevue
contact: Lori, 392-5846

Puget Sound Repeater Group (Repeater Support)
meets Mondays on 146.96 repeater, 7:30PM
contact: Tim, 368-3970

Radio Club of Tacoma (General Interest Club)
meets second/fourth Wed, monthly, in South Tacoma
contact: Jerry, 845-7652

Sea-Tac Repeater Group (Repeater Support)
meets second Saturday, monthly, in Tukwila
contact: Gary, 255-7958

West Seattle ARC (General Interest Club)
alternating Saturdays and Thursday
contact: Roy, 932-1095

Western Washington DX Club (DX and Contesting)
meets second Tuesday, monthly, in Ballard
contact: George, 784-7337

