



# K7LED RELAY

The Relay is the official tabloid of the Mike and Key Amateur Radio Club. The Mike and Key ARC is dedicated to the growth and betterment of Ham Radio. We meet the third Saturday of every month at the Salvation Army Renton HQ, 720 Tobin St. near McLendon's Hardware store. The club operates repeaters on 53.05, 146.82 (103.5 CTCSS), and 224.12 under the call sign K7LED. The following nets meet on the 146.82 repeater: Club net on Wednesdays at 7:30 PM, Public Service net Thursdays at 7 PM. The Clubs mailing address is PO Box 2121 Kirkland, WA. 98083. All persons interested in Amateur Radio are invited to participate in the Mike and Key Club and it's activities. Yearly dues are: Single \$12, Family \$18.

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## PRESIDENT

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862-1157

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392-5303

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## RADIO OFFICER

Ken Rau K7YR  
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## TRUSTEE NO. 3

Al Hopwood KB7THX  
747-5192 (COB)

## EDITOR

Joyce Stroehrer N7JPW  
392-5303

JOYCE STROEHER  
19415 SE 21<sup>ST</sup> ST.  
ISSAQUAH, WA. 98027

## BOARD MEETING

On last Tuesday at 7:30 PM  
Salvation Army in Renton  
Next meeting - Aug. 29th @ 7:30

## CLUB MEETING

Saturday August 19th at 10:00 AM  
Renton Salvation Army HQ  
720 Tobin St. Renton  
By McLendons Hardware  
Doors open at 9:30 for donuts  
TALK-IN ON 146.82 RPTR

## RELAY DEADLINE

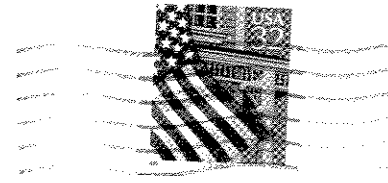
BY THE FIRST OF THE MONTH!

## Upcomming parades

August 19th Auburn at 9 AM.  
August 26th Shoreline

TACOMA FLEA MARKET ON AUGUST 12<sup>TH</sup>

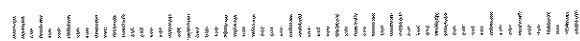
**CHECK MAILING LABEL FOR DUES EXPIRATION DATE!**



FIRST CLASS MAIL

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HEDBERG, PETE  
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96/01



**THE PREZ SEZ**

Submitted by Carolyn, WV7Q

On 7/20, I was invited to meet with the Presidents of the Radio Club of Tacoma, and the North Kitsap Amateur Radio Club to discuss some joint ventures and the opportunity to unite our members in some unique activities. I felt the meeting was quite productive and we scheduled another for the next week. We discussed the following activities:

Two islands in the San Juans are qualified for a special DX program called Islands On The Air, IOTA. A joint weekend to one of the islands was discussed, with members from all three clubs participating. (A kind of field day function)

A special Tri-Club Contest commemorating the 50th anniversary of Amateur Radio return to air after World War II. See following article.

Antenna Wars and Field Exercise Picnic at McCord Air Force Base September 16. (See separate article in this Relay)

The Radio Club of Tacoma would like to join with the other clubs to build a Rhombic Antenna (The epitome of ham antennas) with legs at least 1/4 mile long to operate for at least a week.

A National ARRL Convention in Seattle in the year 2000.

The potential of the three clubs joining forces for Field Day 96 and running 20A or some such similar ridiculously wonderful classification.

I am truly excited about the potential impact that we can make in the Pacific Northwest Region by working together. If you have ideas or suggestions for my future meetings with these clubs, I am most anxious to hear them.

**AN INVITATION FROM THE RADIO CLUB OF TACOMA, W7DK**

Submitted by Carolyn, WV7Q

All members of the Mike and Key Club are cordially invited to a W7DK Field Exercise and Pot Luck Picnic on September 16, (our meeting day), Holiday Park on McCord Air Force Base, Tacoma. Folks will start arriving around 10:00 AM with food starting noon to 1:00 PM. Talk-in on 147.28, W7DK repeater. Come and help introduce Ham Radio to the Air Force and Army personnel that have been invited. The Army will be bringing a field vehicle that sports a 100 ft. tower and a log periodic with 90 ft. elements and a 100 ft. boom. They're anxious to see how it works on our modes. There will also be a continuation of the W7DK Antenna Wars. Bring your favorite antenna, any band, assemble and operate it. Every

one who brings an antenna to share will receive a prestigious certificate. Hope to see you there.

**Special TRI-CLUB CONTEST (WW2END)**

Submitted by Carolyn WV7Q

You are all invited to participate in a special Tri-Club Contest on Monday, August 21 from midnight to midnight, commemorating the reopening of the ham bands following World War II. On 8/21/45, the FCC reopened the first band, 2 1/2 Meters, to Amateur Radio Operators in the US. Appropriately, this contest will take place on 2 Meters. (Sorry, Mike) The rules are as follows: Within the 24 hour period, you must make the following 3 repeater contacts: 1) a member of the Mike & Key on 146.82; 2) a member of the Radio Club of Tacoma on 147.28; 3) a member of the North Kitsap ARC on 146.62 Any licensed operator may participate, but the log must be delivered to the President of one of the participating clubs at a club meeting. (Clever, huh?)

Your contact does not need to be participating in the contest, they need only to be a member of the designated club. Submit a log to me in the following format:

Your name \_\_\_\_\_ Callsign \_\_\_\_\_  
 Date Time Freq Club Call Sign First Name  
 1) 8/21 146.82 M&K  
 2) 8/21 146.62 NKARC  
 3) 8/21 147.28 RC ofTac

In return you will receive a special commemorative QSL card from WW2END illustrating the union of the three clubs in this event. Please join in this easy and fun way to spice up an otherwise uneventful and dreary Monday. Meet some of the members of our neighboring clubs and spread some good will.

**UPGRADE NOTE**

Submitted by Joyce, N7JPW

Melissa, KB7TFF, upgraded to General Class recently. She certainly put her summer vacation to good use. Congratulations!!

**AUBURN PARADE**

AUBURN PARADE ON AUGUST 19 AT 9:00 AM  
 146.58 call in frequency Meeting place is the Auburn Performing Arts Center on Main Street.

**HAM RELAYtions**

by Chuck Foltz KB70S

There are two things I want to mention in this column, of interest to most members from the perspective of time; the long past and the near future. The first was my attendance at the recent preparation meeting for the upcoming USS Missouri Project. Allen WB7SVU who is coordinating the operations had many pictures of the ship and explained the problems we might encounter and the rules that the Navy is asking us to abide by while at the shipyard. It looks like there will be a good number of hands available, but you all know from Field Day experience we can use all the hands we can get, so I recommend that if you can get time starting at 7:30 a.m. on Friday, August 25, 1995, and running until probably the 27th, that you take the pleasant drive over to the Bremerton Naval Shipyard and drop in to lend a hand. The talk-in frequency is 145.51 Simplex. If you can't make the M&K picnic (same weekend) then come help prepare the "Mighty Moe" for the big weekend, September 1-3, 1995, the commemorative amateur radio station onboard the USS Missouri to celebrate the 50th Anniversary Celebration of the end of World War II. On Saturday, September 2, there will be an expected 10,000 guests and visitors at a ceremony held on the dock next to the ship to commemorate this event. The military will be providing hams a desk on their portable command center stationed in the parking lot and will be using local hams to help with site communications during the event. This will really put amateur radio in the public spotlight as this will be broadcast commercially all over the country and, perhaps, the world.

There will be a sideline event commemorating the date that amateur radio returned to the air at the war's end. I don't know the details, but watch the airways for word of August 21 to celebrate this historic moment and pick up some more "wallpaper" as well.

If you should be interested in participating, talk to Al KB7THX or just show up for setup as mentioned above.

As for the future, we had a very fruitful long-range planning meeting just after the last Mike & Key general meeting.

Boy! What a powerhouse of experience in this task of predicting the future for our organization! Sam produced a full set of statistics that were used to develop a previous five year plan, of which is reflected in our current bylaws.

We have started reviewing the survey materials that were used to produce a basis for creating the last long-range look. We want to be able to see not only

where the club should be going, but we want to see how much of the previous goals were successful.

If you would like to be a part of this Herculean effort, please drop by one of our meetings with your ideas and/or experience with the Mike & Key Club. We hope to have the new questions for our next survey well under way at the meeting on Monday, August 7, 1995, at 6:30 p.m. at the Salvation Army meeting place. If you would like some input to the finishing touches for this survey, watch the posting at our next Mike & Key general meeting for the Strategic Planning Committee meeting time and place.

I really like that word "strategic" because it means a focus on the "specific objectives" we should be seeking to make the club what we all want it to be. Come help us accomplish this goal for you.

**NW DX Convention**

Submitted by Michael, WA7UVJ

The Northwest DX Convention was held July 21-30 in Renton and hosted by the Western Washington DX Club. It was an enjoyable event.

Highlights for me included seminars on Contesting Antennas and the MFJ SWR Analyzer. In addition, there were two excellent slide shows on Scarborough Reef and a Contest Expedition to Venezuela.

Scarborough Reef is something to see. None of it sticks up higher than a 4 feet out of the water at high tide and the parts that do stick out are no bigger than the round tables we have at the Salvation Army meeting site. I can see where the minimum size ruling could come into play but that rule wasn't in affect during the operation. Much discussion took place about whether Scarborough should count as a new country.

I figure about 200 hams showed up for the convention and the banquet sold out at about 120 dinners so it sounds like a success. Hats off to the WWDXC for a fine event.

**FLEAMARKET TIME**

Submitted by Michael, WA7UVJ

Did you know that the Fleamarket planning is going to be starting up again in September? Yup!, it takes 6 months to put the thing one and we have a good reputation to maintain. Meetings will occur the first Thursday of each month (Sept 7) through March. These meetings are held at 7:30 PM at the Salvation Army HQ. As this is our 15th event, we should have some special activities as well.

Now is your chance to help plan out the largest Ham gathering in the Pacific Northwest.

**HAMFEST ANYONE?**

Submitted by Michael, WA7UVJ

Back in March and April, a bunch of us got together (in the euphoria of a another Fleamarket done well) and mulled over the idea of doing a REAL convention. You know, like Seaside... except in Washington! There hasn't been one since the Radio Club of Tacoma last gave one many years ago.

Knowing that this kind of effort would be difficult for a single Club (that's why RCT quit) I suggested a collaborative effort among several Puget Sound Area Clubs. There were a couple provisions... 1) that it be fun with no ego trips and 2) that no Club has to give up their regular fund raiser (like our fleamarket). Other than that, the

floor would be wide open for ideas. I wrote to several of the larger Clubs and put the question to them with no commitment required other than "discussing" the idea. If they were interested, they were to let me know by the end of July. So far, I have received one answer.

The Radio Club of Tacoma has replied and is interested in "discussing" the idea. Nobody else has bothered to reply. So now, this question is placed in front of you - the members of the Mike & Key: Are you interested in DISCUSSING, with the Radio Club of Tacoma, a joint effort to bring a regional convention (NW DIVISION or ARRL NATIONAL) to Western Washington two, three, or even four years from now? (Hey, how about the year 2000?) This would be a long term project. There would be NO commitment until ideas were formulated and brought back to the respective Clubs for approval. Then a joint committee would be formed to run the event.

There will be questionnaires at the Club meeting to express your opinions. This is your Club - you have the final word. Sounds like fun. Sounds like work. I vote Yes.

**CW PRACTICE PROGRAM**

Submitted by Michael, WA7UVJ

As promised last month, I have the latest version of a new computer program well suited to help you bring up your CW speed - especially if you are interested in computerized CW contesting. The program is called RUFZ, a shortened version of the German word for "call" - "rufziehen". The program is written (I believe) in Germany by DL4MM.

The concept of the program is simple. The computer sends a call at a predetermined starting speed and you type it in. If you get it wrong, a new call gets sent but at a slower speed. If you get it right, the

computer sends a new call at a faster speed (yikes! - sounds like Field Days CW beach!). At some point you reach an equilibrium of sorts but as you practice, your speed rises (as does your typing). After 50 calls, the game ends and a complex scoring system rates your effort (calls make good practice as they use random letters and always include a number). Back on the Internet, some people are even starting to publish their high scores.

The program is DOS based but I did get it to run under Windows in a DOS window on a Pentium. A slower computer may not be up to generating the code under Windows, especially if you try running other programs at the same time - so I would stay with DOS for the best effect. All sound is generated by the PC speaker so do not expect great sound quality. You could hook up a pair of headphones in parallel to your PC speaker for better sound. NO sound cards are supported.

The program is FREE! I am willing to supply copies to truly interested parties and will throw in the disk myself - up to a point - or will be happy to exchange a disk. I will TRY to have several copies at the next Club meeting. For guaranteed delivery, call me up before the meeting and I will ensure one is waiting one for you. Not all useful software has to cost \$100! Here is a prime example of Hams writing for Hams - and doing a good job.

**5-9-9-+++OM! GREAT SIGNAL!**

Submitted by GIB W7JIE.

Never heard that before have you? In most contests you absolutely never, never, never, hear anything but 5-9-9. And that's the truth!

But is it?

"S" meter readings will be different on all receivers even if made by the same manufacturer. In fact, sequentially numbers receivers will give different S- meter readings on the same signal on the same antenna. Honest. In "screen rooms" where all externally emitted signals are eliminated and only a calibrated signal generator is used, you will still find wide differences in receiver 'S' meter readings.

So this 5-9-9-++ stuff may be suspected. A "5" reading means you can read the incoming signal perfectly! And the first "9" means the signal is at the top of the meter scale. (No additional db above S-9 is considered). The last "9" in the report has to do with the "tone" or stability of the distant transmitter. With zillions of "good" rigs around, it is rare to find a signal that is less than s-9. Overseas signals, Cuba, Russian, etc. will have power supply problems but on the whole a "9" signal usually means a good clean

keyed transmitter. (It says nothing about a phone rig-- just cw)!

So what's with this 5-9-9 report? It really is not a definite and accurate report at all. If you are really seeking information on your signal to a distant point, wouldn't you rather have an accurate report? I thought so. But how does one get an accurate report from a 5-9-9 or less signal?

Ah-ha. Comes into play an idea that is foreign to most hams. It is the "SINPO" reporting system. Used around the world by commercials, hf broadcasters, anyone who wants an accurate signal report. So what is "SINPO"?

It stands for "S" signal. "I" interference or qrm. "N" qm or noise. "P" is for propagation, and "O" overall quality. A 'SINPO' report would be five numbers, such as, 44334, or 22443, 12223, etc. To decode these five numbers, refer to the following chart.

	S	I	N	P	O
5	VY STRONG	NONE	NONE	NONE	EXCELLENT
4	STRONG	FAINT	FAINT	FAINT	GOOD
3	MEDIUM	MEDIUM	MEDIUM	MEDIUM	FAIR
2	STRONG	STRONG	STRONG	STRONG	POOR
1	FAINT	VY STRONG	VY STRONG	VY STRONG	UNUSEABLE

Thus "SINPO", as a signal reporting system, gives anyone a pretty good idea of just how things are going in the wild world of dx, rag chewing, or just plain contacting someone.

As an example. Tune in "KIRO" on your AM radio. In all probability you can receive KIRO like gang-busters. a "sinpo" on kiro could easily be registered as 55555. Strictly first class high quality. Now tune in one of the Canadian stations. Take anyone of them on the lower end of the BC band. You will not get a high SINPO on it. Take WWV at 3pm on 5mhz. (That's 2200 UTC or "Z" time for you, bunky). A rather poor signal. Try 2.5 mhz at the same time. Hardly what you'd want to use for timing tests or setting clocks. But by using "SINPO" it is very easy to determine a "good" signal versus a real bummer. But I grant you, it is a lot more exact that a 5-9-9 or a 5-9 signal report. I doubt that anyone will convert to the "SINPO" system but just keep in it the back of your mind that there is such a system and it is obviously much more efficient than the R-S-T system most of us have been using. Just a little education jazz for today.

#### HIGH TECH JARGON

Submitted by Michael, WA7UVJ

(A little something found on the InterNet. Don't know the original author but he knows advertisings! - uvj)

(What they really mean on the box and in the Press Release.)

**NEW** - Different color from previous design

**ALL NEW** - Parts not interchangeable with previous design

**EXCLUSIVE** - Imported product

**UNMATCHED** - Almost as good as the competition

**DESIGNER SIMPLICITY** - Manufacturer's cost cut to the bone

**FOOLPROOF OPERATION** - No provision for adjustments

**ADVANCED DESIGN** - The advertising agency doesn't understand it

**IT'S HERE AT LAST!** - Rush job; Nobody knew it was coming

**FIELD-TESTED** - Manufacturer lacks test equipment

**HIGH ACCURACY** - Unit on which all parts fit

**DIRECT SALES ONLY** - Factory had big argument with distributor

**YEARS OF DEVELOPMENT** - We finally got one that works

**REVOLUTIONARY** - It's different from our competitors

**BREAKTHROUGH** - We finally figured out a way to sell it

**FUTURISTIC** - No other reason why it looks the way it does

**DISTINCTIVE** - A different shape and color than the others

**MAINTENANCE-FREE** - Impossible to fix

**RE-DESIGNED** - Previous faults corrected, we hope...

**HAND-CRAFTED** - Assembly machines operated without gloves on

**PERFORMANCE PROVEN** - Will operate through the warranty period

**MEETS ALL STANDARDS** - Ours, not yours

**ALL SOLID-STATE** - Heavy as Hell!

**BROADCAST QUALITY** - Gives a picture and produces noise

**HIGH RELIABILITY** - We made it work long enough to ship it

**SMPT E BUS COMPATIBLE** - When completed, will be shipped by Greyhound

**NEW GENERATION** - Old design failed, maybe this one will work

**MIL-SPEC COMPONENTS** - We got a good deal at a government auction

**CUSTOMER SERVICE ACROSS THE COUNTRY** - You can return it from most airports

**UNPRECEDENTED PERFORMANCE** - Nothing we ever had before worked THIS way

**BUILT TO PRECISION TOLERANCES** - We finally got it to fit together

**SATISFACTION GUARANTEED** - Manufacturer's, upon cashing your check  
**MICROPROCESSOR CONTROLLED** - Does things we can't explain  
**LATEST AEROSPACE TECHNOLOGY** - One of our techs was laid off by Boeing

#### ARRL Board News

Submitted by Michael, WA7UVJ

(Just some more stuff off the Internet - not much detail.)

The ARRL Board of Directors met in second session, in Rocky Hill, Connecticut, on Friday, July 21, and Saturday, July 22, 1995. Major actions taken include the following.

The Board of Directors expressed its gratitude to past President George S. Wilson, III, W4OYI, for his many years of dedicated service and conferred upon him the title of ARRL President Emeritus.

The Board approved the institution of three year terms for ARRL Directors and Vice Directors, to be implemented in accordance with a transition schedule beginning in 1998.

The Board directed that the ARRL staff create a plan, including a budget, for the creation of standardized testing procedures for consumer electronics equipment to ascertain their degree of immunity to RF interference.

The Board declined to have the ARRL participate actively in the recently created corporation of volunteer examiner coordinators.

The ARRL will produce a handout aimed at new hams, explaining the concept of band planning, and will include approved band plans.

Changes were made to the operating procedures of the ARRL Awards Committee and Advisory Committees. Membership of the Awards Committee was reduced to six members. An ad hoc committee was created to review the terms of reference and operating method of Advisory Committees.

The Board adopted a resolution thanking NASA for its continued support of the SAREX program.

#### WW2END MISSOURI PROJECT

Submitted by Al KB7THX

For the 24 Mike and Key members who signed up to operate on board the Missouri a letter identifying your shift has been mailed to you. All club members, with paid up dues, who signed up early, will get to operate, unless your available hours were too restrictive. We were over booked by more than 100 operators and we worked very hard to get all Mike and

Key members who signed up early their first choice. All on board operators remember to bring your license.

#### CLUB PICNIC

Submitted by Al KB7THX

Saturday, August 26 starting at 11am is the Mike and Key 1995 Summer Fun Family Picnic and Dessert Contest. This year's picnic will be at Chisim Beach Park on Lake Washington (1175 -96th Ave. SE) Bellevue. There is a wading and splash beach for small children, a swim beach (both have life guards), fishing pier, boating, ball field, and heart stopping views of the Seattle skyline, sailboats and sunsets. There is handicap parking and easy access for strollers etc. The club will provide hamburgers, hot dogs, pop and all the fixens. Each family attending should bring a pot luck picnic item. Again this year we will have a dessert contest with prizes for the winners and full tummies for the judges. (Hint: last year's winner had a chocolate and sex dessert theme). Remember to bring folding chairs or blankets to spread on the ground as seating is limited. Sign up sheets will be on the tables at the club meeting please indicate how many in your family will attend so we can order enough stuff.

From I-405 take NE 4th exit, West on NE 4th, Left Bellevue Way, right Main St., Left 101st Ave. SE. Follow road as it curves uphill, Park is on right at SE 11th.

#### INTERNATIONAL AMATEUR RADIO HAMFEST IN GERMANY

Submitted by Al KB7THX

Mike and Key was present at the Ham Radio Convention at Bodensee in southern Germany. Mike and Key member Gerhard Pantzer/Æ's club in Germany helps organize this annual hamvention who hosted my wife Becky and me. It is a huge convention in 10 large buildings plus outside displays. Manufacturers from 30 different countries were there; up to 20,000 hams attended. A thank you letter from Mike and Key has been sent to the President of the P03 club in Germany.

#### WANTED

Hams to help on August 26 prior to the Picnic to help with a brand new Shoreline Community Parade. Interested? Contact WA7EBH at 392-5303.

**MANY THANKS TO THOSE WHO HELPED PUT ON THE SEAFAIR PARADES!! WE HAVE RECEIVED NOTHING BUT PRAISES, SO MY HATS OFF TO YOU. Chuck WA7EBH**

**MIKE AND KEY BOARD MEETING**

June 27, 1995

Submitted by Ryan / N7TNI

Present were: President-Carolyn/WV7Q, Vice Pres.-Debbie/KB7QMQ, Sec.-Ryan/N7TNI, Treas.-Chuck/WA7EBH, Trustee #2-Dan/N7QHC, Trustee #3-AI/KB7THX, Trustee #4-Chuck/N7STR, Trustee #5-Frank/K7VMG Visitors: Dawn Humphrey, Frank/KA7QHG, Jack/KB7ZS, Jan/N7WJB, Lew/W7QMP, Mary/W7QGP, Nils/WB7TJK, Ralph/WX7T, Ray/WA7EKH, and Stephan/KB7WKK.

The meeting was called to order by AI/KB7THX at 1930.

**Officer Reports: President:** Carolyn/WV7Q met recently with the presidents of the Radio Club of Tacoma, and the North Kitsap Amateur Radio club, to discuss activities involving all 3 clubs. Regular meeting times are being scheduled. We are invited to Radio Club of Tacoma's field exercise and picnic, September 16 at McChord Field. The antenna was continue, bring your favorite antenna and assemble it. The army is bringing a field vehicle that supports a 100 ft. tower and a log periodic with 90 ft. elements. We're to load it up to show what ham radio can do with antennae. Carolyn will have an article in the RELAY with more info on her meetings. The Radio Club of Tacoma's Flea Market is August 12, they need help with set up. On August 21, is a WW2END 2 meter contest to celebrate the anniversary of the return of 2.5 Meter band to amateur use after World War II. Rules will be in the RELAY.

**Vice President:** Debbie/KB7QMQ has 2 applicants for membership. They are Fred Roberts/W7TKV, and Tom Sanders/W6QJI. Candidates approved for membership vote at August meeting.

**Treasurer** - Chuck/WA7EBH gave the financial report. Financial data for the last year will be available for member's review at the general meeting. Chuck reports there will be two buildings for our 1996 Flea Market.

**Secretary** - Ryan/N7TNI reports that Kathy/KB7QMO had contacted ARRL, who will send 150 Archie Comic books to us. Kathy received a price quote for 20 copies of Now Your Talking, which the club will donate to local junior and senior high schools.

**Activity Manager** - G. Ray/KB9HHK : Absent due to a change in work schedule. He will not be able to attend Board Meetings for at least the next two months, will attend the general meetings, and will continue to fulfill his duties.

**Chairman of the Board** - AI/KB7THX read to the Board a letter Carolyn/WV7Q received from Tom

Sanders/W6GJI. In response, it was moved and seconded the Mike and Key Club donate \$1000.00 to the Missouri project to pay the United States government for security. In return we would receive 28% of the profits derived from the project. After much discussion, it was moved and seconded to amend the motion that there must be a written contract signed between the clubs involved, detailing what we will receive in exchange for our \$1000.00, and give us the right to examine the books. The amendment passed,. The motion passed as amended, with Chuck/WA7EBH abstaining.

**Standing Committee Reports:**

**Public Service** - Dan/N7QHC had nothing to report.

**Technical and Special Interest:** - Tom/N7VDU absent.

**Education and Training**-Frank/K7VMG reported for the pre-meeting presentation in August, he will speak on basic propagation. Ralph/WX7T has found a possible source for First Aid training for club members and referred this to education committee.

**Long Range Planning** - Chuck/N7STR reported a good turnout for last meeting. Next meeting Monday, August 7, 1830, Salvation Army Headquarters.

**Facilities and Publicity** - AI/KB7THX reported announcements of all club meetings, nets, and committee meetings are posted on packet radio.

**RELAY** - Chuck/WA7EBH asked that articles be in by this weekend.

**Field Day** - Nils/WB7TJK reports we are claiming 9,530 points, up 528 from 1994. We will receive 290 points (10 points/each ARRL member who participated. Field Day logs given to Secretary for storage, and returned his Field Day Chair bars to Carolyn. The club purchased 600' of 1/2" polypropylene rope for Field Day, cut into 100 ft. length, stored in tower trailer box. We also purchased 600 feet of 1/4" polypropylene rope, used by Dean/N7NKO for his log periodic antenna, and in his possession. One tent has damaged zipper, the generator and trailer need repairing and modifying to increase it's utility. He also noted areas of needed improvement for 1996. The tower trailer is now stored at Fort Flagler, and Ken/K7YR will find storage for the generator trailer.

**Old Business:** Club picnic will be August 26, Chism Beach Park in Bellevue. So far, twenty five members have signed up. Children under the age of 14 can fish without a licensee in Lake Washington.

AI/KB7THX noted much of Club's equipment is stored at several locations at members properties. It was moved, seconded and passed to rent a 5'x10'

storage room at \$40.00 per month, indefinitely. Bring any club assets to next general meeting to put in storage.

Nils/WB7TJK asked about the motion passed at the June general meeting, that the board determine how much funding the M&K Club will donate in support of the AMSAT Phase-3 project. After discussion the board took no action.

Nils/WB7TJK has found a construction trailer he feels the club should consider purchasing. It was moved and seconded that Nils present proposal to Captain Halvorson, Salvation Army, for feedback and acceptance. After much discussion, motion passed. It was moved, seconded and passed that if Salvation Army approves the trailer, that Nils determine the needs of securing the building for the club and make a proposal for consideration by the general membership.

**New Business:** Stephan/KB7WKK proposed that the club purchase a 6 meter beam antenna for Field Day. Jack/KB7ZS has a beam that could be used.

Ralph/WX7T requested we form a political committee and telephone tree to lend effective support to legislative efforts on our behalf on short notice to the amateur community.

Jan/N7WJP submitted two written proposals to the board. Al/KB7THX read the first to create 'Life Members'. It was moved and seconded to accept proposal. After discussion, it was moved and seconded to amend the motion by striking 'Inactive Life Members'. The amendment to the motion passed. Main motion passed as amended.

Jan's second proposal, dealing with the budget for the 25th Anniversary meeting was discussed, and referred back to committee for reconsideration.

It was moved, seconded and passed to appropriate \$150.00 to digitize the club's emblem so jackets can be embroidered with the pattern.

Good of the order:

Nils/WB7TKJ suggested that as an affiliated club, the board establish a roster of members who belong to the ARRL, and the club protect it's 60' Spaulding tower.

Meeting was adjourned .

### GENERAL MEMBERSHIP MEETING

July 15, 1995

Board members Present were: Pres - Carolyn/WV7Q, Vice Pres - Debbie/KB7QMQ, Sec - Ryan/N7TNI, Activity Manager - G. Ray/KB7HHK, Trustee #1 - Tom/N7VDU, Trustee #2 - Dan/N7QHC, Trustee #3 - Al/KB7THX, Trustee #4 - Chuck/N7STR, Trustee 35 - Frank/K7VMG, and Radio Officer - Ken/K7YR.

Call to Order:

Pledge of Allegiance

Welcome to members and visitors by Carolyn/WV7Q, who asked that visitors sign the club attendance sheets, but not vote. The coffee fund is self supporting. Please use west side of building for breaks.

Introductions: President - Carolyn/WV7Q introduced the Mike and Key internet address, MikeandKey@AOL.COM. It was moved and seconded to approve the minutes as published in RELAY. Correction of Nils call from KB7TJK to WB7TJK requested. After review by Secretary, call in minutes correct. Error in call in other articles. The minutes approved as printed.

**Vice President** - Debbie/KB7QMQ has badge order sheets and membership applications available. She presented 9 membership applications. Present and voted to membership: David Lee/KC7FSR, Paula Cather/KJ7KD, Michael Roley KC7EGO, Misty D. Lane/KC7LSY, and Bruce Hulse. Presented, but absent, George Wheeler/KJ7HB, Jerry Valentine/KC7EYN, Bill Hughes/KC7EBF, Robert Goodnow/N7JHJ

**Secretary** - Ryan/N7TNI reported Carl/W7PRW received a post card from the Hurricane Good Sam's, thanking us for spraying the mosquitoes at Fort Flagler; a QSL card from Fred Roberts/W6TKV thanking us for a great Field Day. G. Ray has copies of the WWARA Repeater Directory available, for \$6.00.

**Treasurer** - Jack/KB7ZS for Chuck/WA7EBH. reported the financial status of the club and books available for members to inspect.

**Activity Manager** - G. Ray/KB9HHK will have an article in the RELAY about First Aid classes and a survey form available at next meeting to determine interest in First Aid class. The class will take 2-4 hours and cannot be done during a meeting. If there is enough interest, the board may pursue having a member trained to be an instructor. No program today. The Long Range/Strategic Planning committee will meet after the meeting today. The club picnic in August will be in lieu of a program. October will be the 25th anniversary meeting and party.

**Radio Officer** - Ken/K7YR mentioned recent interference problems in the area, and efforts to resolve them.

**Chairman of the Board**

Al/KB7THX reported the P03 show in Germany. They use 10 buildings larger than the one we have for our Flea Market. Al has photos and literature in the coffee area. Our German member, Gerhard/DL8GBP has received his US. callsign, KC7MAK (Mike And Key). Congratulations Gerhard.



**Committee Reports:** Times for all scheduled committee meetings are posted on the wall behind the front table, and are published in the RELAY.

**Public Service** - Carolyn/WV7Q reported meetings to resume on September 21. The next two weeks are Sea Fair events, check the schedule and sign up for the parades.

**Technical Committee** - Tom/N7VDU reported the committee has no members, no meeting date. Those interested contact Tom.

**Education and Training** - Frank/K7VMG reported next meeting August 7. A questionnaire will be published in RELAY. Please fill it out. At present no premeeting program planned for August. If none comes forward, Frank will do a class on propagation.

**Strategic Planning** - Chuck/KB7OS is the new chairman. Committee will today immediately after this meeting. Anyone is welcome.

**Facilities Committee** - Nils/WB7TJK will chair this committee, after he finishes as Field Day chairman.

**RELAY:** Carolyn announced that articles for the RELAY should be in by the July 25 board meeting.

**Net Report** - Frank/KA7QHG has the new preamble for the net control operators, be sure to pick them up before you leave today. Frank said last week's net went real well in spite of problems.

**USS Missouri event/WW2END** - Al/KB7THX reports 24 M&K members signed up to operate, most all got operating slots requested. Club dues must be paid to operate. Operators will receive schedule confirmations by mail. Loggers are still needed. Those signed up are required to attend planning and organizational meeting 7/29 at 1400 in Tacoma, Trinity United Methodist Church, 601 East 35th. If unable to attend, contact Al. Help is needed setting up, August 25. There will be an organizational meeting at the Radio Club of Tacoma on Sunday 7/23, at 1400. KOMO is having a NorthWest Afternoon show at 1400, Friday, July 28 featuring the USS Missouri project. 15 Hams may attend. See Mike Dinkleman/WA7UVJ if you would like to attend. The T-shirts being sold to support the WW2END project are \$17.00, XXXL \$18.00. Al introduced Tom Sanders/W6QJI (President Emeritus of the North Kitsap Radio Club). The talk in frequency for the planning meeting will be 147.28. Tom complemented Al and Debbie for their excellent work. There are 112 operators signed. The WW2END is not a contest. The future of the USS Missouri is uncertain. The uniform will be WW2END T-shirts, Tom wants to see wall of Missouri T-shirts everytime the cameras pan around. Tom thanked us for the use our 146.82 repeater Tuesday nights. Allen is the support manager for the event.

**Field Day** - Nils/WB7TJK concerned about members reading his article in RELAY. Any ARRL members making contacts at Field Day, see Nils for 10 bonus points credit. Chuck/KB7OS presented certificates to those supporting 20 M Phone at Field Day.

Carolyn/WV7Q announced the October meeting will be a Silver Anniversary celebration for the club.

**New Business:** Club Picnic - Al/KB7THX announced the Mike and Key 1995 Summer Fun Family Picnic and Desert contest, Chism Beach Park Bellevue Saturday, August 26, noon. Al has sign-up sheets and maps on each table. Bring your own chair. Carolyn/WV7Q will invite members of Radio Club of Tacoma and North Kitsap Amateur Radio Club. Club is providing hamburgers, hot dogs, pop, all the fixing's, potato chips, plates, cups. Bring a pot luck dish, and your favorite desert item.

**The Radio Club of Tacoma Flea Market**, will be held August 12, 0900- 1500, Charles Wright Academy. They need help setting up on Friday, 1000 until 2100. Carolyn has directions to event. There will be operating stations set up using same rigs as the USS Missouri. Area to be provided to test radio gear.

Good of the Order -

Jan/N7WJB, chairman of the 25th anniversary party, requests a lady to serve on committee.

Ray/WA7EKH reported his wife Elenor/KC7EBC is doing well after her double bypass heart surgery and expects her home soon.

Stephan/KB7WKK is listening for the next recipient of the Golden Alligator Award. He proposed the club buy a 6M beam antenna, for field day. This needs to be presented at a Board meeting.

Nils.WB7TJK asked how the club handles QSL cards. Jim Christiansen/K7ND has cards, and normally responds.


The next board meeting will be here, July 25, 1900. The next Flea Market planning meeting is September 7, here, 1900. This will be the 15th anniversary of the Flea Market. Carolyn/WV7Q, or Chuck/WA7EBH are gathering ideas for special happenings.

Charge up your hand held batteries, and help with the Sea Fair parades.

It was moved, seconded and passed to adjourn the meeting.

**Raffle:** The winners were: Stitz/WA7BET-Tarp; Floyd/W7JQD-Tarp; Ed/KJ7PE-Oil Lamp and oil; Jo/KB7UFM-Oil Lamp and oil.

## August 6 - September 16, 1995

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
Aug 6	Aug 7 Education and Training Committee	Aug 8 7:30pm WDXC Meeting	Aug 9 7:30pm Club Net on 146.82 Repeater	Aug 10 7:00pm Public Service Net	Aug 11	Aug 12 TACOMA FLEA MARKET 8:00am SeaTac Repeater Group 10:00am VE Exams - Riverside Inn
Aug 13	Aug 14	Aug 15	Aug 16 7:30pm Club Net on 146.82 Repeater	Aug 17 7:00pm Public Service Net 7:30pm PARS Meeting	Aug 18	Aug 19 9:00am AUBURN PARADE 10:00am Club Meeting 1:00pm VE Exams
Aug 20	Aug 21	Aug 22	Aug 23 7:30pm Club Net on 146.82 Repeater	Aug 24 7:00pm Public Service Net	Aug 25	Aug 26 SHORELINE PARADE CLUB PICNIC
Aug 27	Aug 28	Aug 29 7:30pm Club Board Meeting	Aug 30 7:30pm Club Net on 146.82 Repeater	Aug 31 7:00pm Public Service Net	Sept 1	Sept 2 9:00am Boeing ARC Meeting 1:00pm VE Exams - Kent (KF7VG)
Sept 3	Sept 4 Education and Training Committee  Labor Day	Sept 5	Sept 6 7:30pm Club Net on 146.82 Repeater	Sept 7 7:00pm Public Service Net 7:30pm Flea Market Meeting	Sept 8	Sept 9 8:00am SeaTac Repeater Group 10:00am VE Exams - Riverside Inn 1:00pm NAPRA Meeting
Sept 10	Sept 11	Sept 12 7:30pm WDXC Meeting	Sept 13 7:30pm Club Net on 146.82 Repeater	Sept 14 7:00pm Public Service Net	Sept 15	Sept 16 10:00am Club Meeting 1:00pm VE Exams

## MIKE AND KEY MEMBERSHIP QUESTIONNAIRE

In order to have more club activities of specific interest to our members, we first need to know where the membership's interests are. Please take a moment to complete the questions below. Your individual specific areas of interest are important to us so that we can better serve you. Thanks. 73, Al, KB7THX, Chairman of The Board.

Name \_\_\_\_\_ Call \_\_\_\_\_

1. I am interested in the following. (Check all that apply).

SSB \_\_\_\_\_ CW \_\_\_\_\_ AM \_\_\_\_\_ FM \_\_\_\_\_ Packet \_\_\_\_\_ AMTOR \_\_\_\_\_ TV \_\_\_\_\_ RTTY \_\_\_\_\_

Other \_\_\_\_\_

2. What bands do you use most? 75/80 \_\_\_\_\_ 40 \_\_\_\_\_ 30 \_\_\_\_\_ 20 \_\_\_\_\_

17 \_\_\_\_\_ 15 \_\_\_\_\_ 12 \_\_\_\_\_ 10 \_\_\_\_\_ 6 \_\_\_\_\_ 2 \_\_\_\_\_ 220 \_\_\_\_\_ 440 \_\_\_\_\_ Other \_\_\_\_\_

3. What "ON-THE-AIR" Activities do you enjoy? Ragchewing \_\_\_\_\_

DX \_\_\_\_\_ QRP \_\_\_\_\_ Nets \_\_\_\_\_ Contests \_\_\_\_\_ Repeaters \_\_\_\_\_ MARS \_\_\_\_\_

Public Service \_\_\_\_\_ EME \_\_\_\_\_ Satellite \_\_\_\_\_ Message Handling \_\_\_\_\_

Emergency \_\_\_\_\_ Awards (WAS, DXCC, etc.) \_\_\_\_\_

4. What activities would you like to know about? Ragchewing \_\_\_\_\_

DX \_\_\_\_\_ QRP \_\_\_\_\_ Nets \_\_\_\_\_ Contests \_\_\_\_\_ Repeaters \_\_\_\_\_ MARS \_\_\_\_\_

Public Service \_\_\_\_\_ EME \_\_\_\_\_ Satellite \_\_\_\_\_ Message Handling \_\_\_\_\_

Emergency \_\_\_\_\_ Awards (WAS, DXCC, etc. ) \_\_\_\_\_

5. Would you like the club to have more social activities, like picnics, pot lucks, BBQs, Parties, family gatherings, etc.

YES \_\_\_\_\_ NO \_\_\_\_\_

6. Would you be interested in club organized classes to upgrade your license? YES \_\_\_\_\_ NO \_\_\_\_\_

**RADIO CLUB OF TACOMA, W7DK**

# Tacoma Electronics Fleamarket

**Saturday, August 12, 1995  
Charles Wright Academy  
7723 Chambers Creek Rd West  
Tacoma, WA  
Open 9 AM to 3 PM**

**Admission \$4 (12 and under FREE)**

**Overnight RVs: \$2 (Self Contained - Friday Night Only)**

**RVs: Pay upon arrival and receive parking assignment**

**A.R.O.W.S. - The Ladies Club  
Will host a Raffle Drawing!**

**☞ FREE Parking**

**☞ Ham Gear**

**License Examinations - 10 AM**

**Bring original plus photocopy of license and a  
check for \$5.90 made out to "ARRL/VEC"**

**☞ Commercial Displays**

**☞ Computers & Electronic Equipment**

**For More Info call Alan Hughes at:  
206-840-4947 or 206-596-7472 (pager)**

**☺ Talk - In on 147.28+ ☺**

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## **DIRECTIONS TO CHARLES WRIGHT**

**SOUTHBOUND I-5:** Take 56th Street Exit (#130). At first light TURN LEFT into the far right lane. NEXT Light TURN RIGHT onto 56th. (This is a bazarre section so be careful!) SEE Common Section.

**NORTHB BOUND I-5:** Take 56th Street Exit(#130) West Bound. You will cross under the overpass to the off-ramp. You are on 56th now. See Common Section.

**COMMON:** Proceed West on 56th, it changes to CIRQUE St. Move to LEFT lane. At the Bridgeport Way intersection, turn LEFT. Proceed South on Bridgeport Way in the RIGHT LANE (BE CAREFUL HERE). You will come to CHAMBERS CREEK LANE W., turn RIGHT (lighted intersection). Follow this road to Charles Wright on the RIGHT. People will be posted to assist you in parking. Remember 147.28+ will get you help.