



K7LED

Relay

Volume 27, Number 7

Page 1 of 7

July, 1999

The Prez Sez

Alan Hughes, KB7SUV

July already, where is the time going? When will the rain stop and the warm weather get here? Anyone have an answer? Oh well I think we will just have to take it day by day.

Talking about time and rain another field day has come and gone. Yes it was cooler and wetter this year but we still had fun. I want to thank everyone that helped make field day a success. With out each person adding his or her help and ideas there would be no field day. I would especially like to thank our two chairpersons Chuck Strocher (WA7EBH) and Chuck Benefiel (N7STR) for doing such a great job of taking over just a few weeks before field day. They worked well together and did a smashing job. I think the club should talk them into co chairing next year's event. The only thing is WA7EBH will have to come up with a new excuse to get out of work. Getting another hernia is out of the question. Even with the hernia he would not sit still and was still helping. Thanks to both of you for a great job. I need to take this time to thank Nils Hallstrom WB7TJK for getting things started on field day. He lined up all the camping spaces and the barrack along with all the preliminary organizing. We missed you being there to help and give us encouragement and laughter.

Another person I would like to thank is Wayne Heath for a fantastic meal both Friday and Saturday night. The roast was delicious along with all the other food. Wayne not only setup the area, cooked the food but he also cleaned up the area. I learned that on Saturday he cleaned the area by himself. Thanks Wayne

The only down side besides the weather was the lack of participation. It was very discouraging to learn that so many people canceled at the last minute. This cost your club money that could have gone to other events. As a courtesy to the club and other members, please let someone know if you can't make it.

I received an e-mail asking the club for help on a radio project from the Director of Northwest Seaport Rick Boggs KB7QLY. Northwest Seaport is interested in having an amateur radio group "adopt" the radio shack on board the lightship "Swiftsure" the only remaining steam-powered lightship in the U.S. It will be on permanent display berth at the south end of Lake Union. This is a wonderful opportunity for a group of dedicated technicians to renovate and restore the shack to a maritime station of the recent past. They would like to see an operating station in place along the lines of museum stations such as at the Los Angeles Maritime Museum. If anyone is interested please let me know. I feel this would be a fun and worth while task to take on maybe with the help of other clubs.

Till next month take care, have a fun but safe summer.

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General Meeting Minutes, 6/19/98

Joyce Strocher, N7JPW

Officers Present: President - Alan (KB7SVU); Vice President - Calvin (KC7IYP); Secretary - Joyce (N7JPW); Treasurer - Chuck (WA7EBH); Activity Manager - Tressie (KC7BAL); Radio Officer - Harry (W7JWJ); Trustee #1 - Jack (N7IHS); Trustee #3 - Jim (W7FKI); Trustee #4(COB) - Mike (K7JML); Trustee #5 - Mike (KC7YXB).

The meeting was called to order at 10:00 AM with all members and guests repeating the Flag Salute at the Salvation Army Building in Renton. Please announce your name and call clearly for the secretary.

A moment of silence was held for Carl Butler (W7PRW).

Minutes: It was moved, seconded and passed to approve the minutes of the May meeting as printed in the RELAY.

Members are asked to take breaks on the West Side of the building at the request of Salvation Army. The coffee and donut fund is self-supporting. We are an affiliated club, please be a responsible member and join the ARRL. Please sign the rosters at the table. Visitors are asked to refrain from voting on club matters requiring a vote.

Officer Reports

President: Field Day next weekend. W7DK at Holiday Park on June 20th, 11:00 AM - 5:00 PM. Thank-you letter read by Joyce, N7JPW, from Millie Butler. 25-year plaques were given to Mary Lewis (W7QGP) and Harry Lewis (W7JWJ). Hal Goodell (N7NW) not present.

Vice President: Calvin (KC7IYP) has no new applicants for membership.

Secretary: Joyce (N7JPW) - A card was sent to Millie Butler from Club. Very large Rhododendrum delivered to Millie from the club; Nils (WB7TJK) took care of this.

Treasurer: Chuck (WA7EBH) reports books are in good standing. Books available for members to see.

Activity Manager: Tressie (KC7BAL) has raffle tickets available. Raffle will be held at the end of meeting. Program for today is Field Day.

Radio Officer: Harry (W7JWJ) states all repeaters working well. Today is National ARRL Kid's Day. A radio class is being at Helen Keller School in Kirkland. Other classes held with many new Hams resulting. Rebate to be given to persons passing the examination.

In-Put box: Frank needs help with the SeaTac parade on June 26th.

Alligator Award: Dean (N7NKO) received the Alligator from Chuck (N7STR).

Contest: Larry received 4 packets for his contest.

Collection Corner: Dan (N7QHC) announces that Butch has a collection of his awards and accomplishments.

LOGO: Iron on patches available. Committee Reports

Those committees not reporting in the RELAY are asked to report now.

Field Day: Sign-up sheets are available for bands for Field Day. Anyone going to Field Day is asked to stay for program. Non-HF operators are encouraged to participate.

Picnic: Tressie reports picnic will be August 29th beginning at 11:00 AM at Auburn Game Farm. The report is the weather will be great and the fun in abundance.

Public Service: Wayne (K6DOW), has Seafair Parades coming up. There are sign up sheets available. The Torchlight Parade will be held on **Saturday** this year (July 31). All parades are listed on the Web.

New Hams: AI (KB7THX) no new hams. New Business

Carolyn (WV7Q) wants to have a scrapbook of the Pop Brown winners. She requests pictures any of us have. Joyce will bring a camera to future meetings and take pictures of Pop Brown winners. Carolyn will work on the scrapbook.

Chuck (N7STR) has bottles with filters approved by the American Red Cross for survival kits. It also filters out bacteria that are a by-product of viruses. Cost at Target is \$29.95. Our cost is \$19.25 without sling, \$23.50 with sling. Make checks out to Chuck Benefiel. He will not cash checks until has 100 orders.

Good of the Order

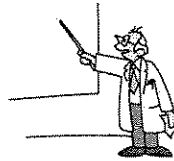
Tressie has more tickets to sell. Must be present to win.

There being no further business, it was moved, seconded and passed to adjourn the meeting.

Relay Deadline

Submittals for the July Relay are due to the editor by August 11, 1999. Early submittals would be appreciated.

From the W7JWJ Notebook Operation Upgrade Commitment – Part Two



A young student and Radio Amateur from Germany was hitchhiking across the United States when he arrived a Jackson Hole, Wyoming where a Ham convention was in progress. And there, the Region Seven VEC team, sponsored by the Boeing BEARS and headed by Mary Lewis, W7QGP, was about to administer the 4th volunteer license examination to be given in the US. We asked the German student if he would like to try for an American license. Spotting a typewriter he requested permission to use it in taking the 20-wpm Morse code examination. In checking his submitted copy we found he had made but on error in receiving the 5 minute 20-wpm code transmission. He refused to accept the certificate of completion explaining that even though he knew the Y and G were reversed on the American typewriters he had made an error and had no excuse. What to do? We had with us a 35-wpm tape. This he copied without error for several minutes and an hour later our German student left the examination room as the first foreigner to obtain an Amateur license, an Extra Class, under the new VE program.

That was then. This is now. The American aspirant enters the VE session holding a 610 form duly endorsed by his/her physician attesting to the fact that this applicant is so mentally or physically impaired that he/she is not capable of obtaining a 70% grade on the multiple choice exam. This person is not alone. At the present time over 8% of all individuals attempting the General Class license exam are so mentally or physically impaired and the number is gradually increasing.

Also, only 8% of all Amateurs now upgrade. The Mike & Key membership fares little better. During the last five years only 9% have upgraded. This need not be so! Some 24% of our members hold Extra Class licenses while 24% also hold the basic Technician license. If each of our Extra Class members resolves to Elmer one Technician class this year. If each Technician Class licensee would commit themselves to attend upgrade classes, study diligently, do all homework assignments, practice code daily without fail, and take the upgrade examination, then the Mike and Key ARC can regain its prestigious role as the number one radio club in the entire area. Not to do so is unthinkable!

Field Day

Chuck Benefiel, N7STR

Field Day was Good, Bad, and indifferent. It seemed like Murphy was at his best this time. Friday

was wet and cold and I think it got on some people's nerves. We got half the antenna's up and quit until the next morning. Wayne Heath served up a fantastic meal Friday night, Saturday morning, and Saturday Night. He worked so hard and he never got to eat Saturday night himself.

Then we had about five people cancel their campsites at the last minute, leaving the club with a lot of expense. On top of that a whole bunch of people decided not to come to the barracks. This wouldn't have been so bad, but due to the barracks being booked we had to turn away a family of 4, which ended up renting a house for \$60 per night. The barracks ended up with 10 or more empty beds, and the club got stuck for renting 2 half full buildings. This has led the board to decide in the future to require non-refundable deposits for last minute cancellations for all future field day reservations.

Of course when you have a lack of operators, the bands got hot. Many people worked 6 hour shifts until 3:00 AM, because "well, how do you walk away from a hot band." This just proved to me that Ham Radio is an addiction, and requires its own 12 step program, Ha Ha (Hams Anonymous, Hams Anonymous), or maybe it should be Hi Hi, (Hams Innominate, Hams Innominate.) Look it up.

On top of everything else, 6, 10, 20, and 40 meters lost their entire computer logging because of a computer disc glitch. (It had to be Murphy at work again.) So now I am working from some incredibly bad dupe sheets written on napkins, toilet paper, matchbooks and heaven forbid, someone actually used his dupe sheets.

At the very beginning of field day I was bouncing from station to station with all kinds of computer problems, and after problem #6 in the first 15 minutes of operating, a woman came into 20-meters and was talking to her friend. (Of course I had broken my hearing aid on the Thursday before field day), and with everyone talking, I couldn't concentrate, and about then my rubber band snapped, and I told them to take it outside. She got her feelings hurt and it turned out to be a family that Calvin was trying to recruit to our club. My apologies, rubber bands were shorter this year.

More Murphy at work came when Chuck Stroehrer, my Co-Chairperson for Field Day, popped a hernia Friday night, and I got put in charge of setting up the rest of the towers and antennas. Enter one of my hero's and his nephew, who came along and climbed the towers, and set up antennas. Thank you Alan, KB7SVU, our president and Michael his nephew, who until field day had never seen a Ham Radio, and never climbed a tower. If Michael is any indication of some of our youth out there, there is a future for their generation. He learned and absorbed everything like a sponge all weekend. He never questioned a decision, he just said "how soon, how high, and it's done."

Luckily the rest of Saturday went smoothly until

about 1:00 PM, when we discovered that 20 meters was hearing but not sending. Enter hero #2, Ken Rau, who showed up on Saturday and climbed 20 meters, pulled off a substitute Balun, re-soldered it, and then climbed back up and put it back on. At the same time Dean had an inverted V antenna with him, and at the suggestion of the son of the lady I had yelled at in the bunker, we put it up. It all worked out, and a bunch of us learned a lot during that time.

Of course for the next 24 hours I was living in fear of teardown, because for the first time it was up to me. Thank you Club members, because it was done by 1:20 PM. Chuck Stroehrer hobbled, and I ran around, shouting instructions and everyone chipped in. It was pure teamwork. I'm sure there are some disgusted people with all of the problems that took place this year. As it was pointed out at the Board Meeting, Field Day is more than a Campout, Picnic, and Contest. It is an exercise in Emergency Preparedness. I think that was the lesson of 99. I hope the person who has the bag of bolts and Balun for the 20-meter antenna from 98 would please bring them forward, (they're in your garage somewhere), so we don't have to experience 99 again. Did I just hear "AMEN" from the 20-meter band chairmen? Mike and Calvin did a great job for a first time effort. Oh yes, I almost forgot, **Honorable Mention:** Dean N7NKO with 40 meters, led the bands with 555 contacts, Steven (N7MUT) with 15-meters did 428 contacts and Ric (N7RIC) with 10-meters did 290 contacts, an outstanding effort.

Now for the big *dudes*, under the direction of the incomparable Michael Dinkelman (N7WA, CW combined did a whopping 1196 contacts. Our final total for 1999 with bonus points is 9214. *The Few, The Proud, The Mike and Key.*

ULS — What is it?

Jim Etwiler, KD7BAT



ULS is an abbreviation for the phrase Universal Licensing System. What does this have to do with us, the amateur radio operators? Where did this come from? What if I just ignore it, will it go away? Is there some advantage for me to use ULS? I will try to address some of these in the following article.

In the beginning, well not that far back for our purposes, congress passed the Debt Collection Improvement Act of 1996. This required the Federal Communications Commission (FCC) and others to record a Taxpayer Identification Number (TIN) for each licensed transaction (new issue, renewal, update, ...). For most of us amateurs, TIN translates to our Social Security Number (SSN).

The Wireless Telecommunication Bureau (WTB) of the FCC began implementation and found they had at least eleven different systems to update. In

September 1998, the FCC adopted a *Report and Order* concerning ULS in which it adopted new licensing rules and revised application forms for future use in ULS. In February 1999 they set a date of May 1, 1999 to universally disband all other systems except ULS. In late April they rescinded the universal date and announced that the remaining conversions to ULS would be announced as each system became converted.

ULS is being implemented to reduce the number of licensing systems the WTB of the FCC has to maintain. The change came as a fallout of a data recording requirement passed by congress. The implementation will mean for us that there will be several fewer forms to fill out. For those of us with access to the Internet we will be able to update and/or renew electronically once we have registered with ULS.

Register? Yes, register means to provide the ULS system with your TIN and a desired password and ULS will issue you a unique seven-digit ID number. Registration is supposed to take only a few minutes during an Internet session. There is also a way to do this via a manual form, but password changes can only be revised via the Internet. The ID identifies you to ULS without having to continually supply your TIN. The password is in lieu of your signature (so protect it). The ULS ID protects your SSN and satisfies the regulation passed by congress. The FCC plans to implement ULS for the Amateur Service August 2. It is recommended that all of us register with ULS soon. ULS registration is required in order to receive FCC services in the future. Without the TIN or ULS registration, no forms will be accepted for processing, neither electronically nor manually. No form accepted means no renewals or upgrades. The electronic implementation of ULS also means that computer programs can be written to check the forms and interactively prompt for missing or inconsistent data. For those with Internet access, it means that updates will be filled faster and with less hassle. Almost all-local libraries have Internet access if you do not have access from home. The following table shows the current progress of WTB in implementation of ULS.

Radio Services Currently Implemented in the ULS

- General Mobile Radio Service (GMRS) - effective 4/19/99;
- 900 MHz Specialized Mobile Radio (SMR) - effective 4/19/99;
- Aircraft Stations - effective 1/19/99;
- Auction 20 - VHF Public Coast Service;
- Auction 18 - 220 MHz Radio Service ;
- All Cellular Radiotelephone Service - effective 12/14/98;
- Personal Communications Services (PCS) - effective 9/23/98;
- Wireless Communications Services (WCS)- effective 9/23/98;
- Offshore Radiotelephone - effective 7/1/98;

- Paging & Radiotelephone - effective 6/1/98;
- Auction 17 - Microwave Local Multipoint Distribution Service;
- Auction 16 - Land Mobile SMR, 806-821/851-866 MHz .

Radio Services Planned for the ULS

- Ship;
- Antenna Structure Registration;
- Microwave ;
- Commercial Radio Operator Licenses;
- Marine Coast and Aviation Ground;
- Amateur Planned August 2, 1999;
- Land Mobile.

Most of my information came from the web at <http://www.fcc.gov/wtb/uls/>. Visit this site for more information and to register with ULS click on "TIN/Call Sign Registration."

Education Committee Report

Chuck Benefiel, N7STR

The code class has upgraded 3 new Tech+ hams. There are still 15 sets of tapes that were checked out by the class participants to be returned.

On July 6, 1999, the Education Committee met at Denny's Southcenter. Five members of the committee were in attendance. The Committee discussed an upcoming Novice No-Code Class, which we have decided will be held on the weekend of October 22, 23, & 24th, of 1999. There will be 6 teachers involved with the class. The class schedule will be: Friday evening October 22nd, at 7:00 PM till 10:00 PM

Saturday morning October 23rd, at 8:00 AM till 5:00 PM with a 1/2-hour brown bag lunch.

Sunday morning, October 24th, at 8:00 AM till 4:00 PM at which time testing will be administered.

Location of the classes is yet to be determined.

The class size will be approximately 30. Each teacher will cover an area of expertise; not to exceed 2 hours per presentation, utilizing the ARRL Video's as well as the general classroom teaching curriculum of their choice on the principles of their subject.

The promotion of the class will include flyers, posted at all Radio Shack Stores, Radio Depot, Senior Organizations, Churches, Youth Groups, Regional Amateur Clubs, and the Webb Page. Mailings to Hams within a 5-mile area of the classes will be used if required.

Curriculum for the class will use the ARRL Tapes, Now Your Talking, and the new Mike and Key Lesson Plan which is being coordinated to work with the tapes.

Its not Queen Mary size, but ...

Jim Etwiler, KD7BAT

"Swiftsure" is the only remaining steam-powered lightship in the United States. Northwest Seaport should have the vessel moved to a permanent display berth at the south end of Lake Union within the next few months.

Northwest Seaport is interested in having an amateur radio group "adopt" the radio shack on board the lightship. This is a wonderful opportunity for a group of dedicated technicians to renovate and restore the shack to a condition which represents a maritime station of the recent past ... (Collins tube type stuff). Northwest Seaport would like to see an operating station in place along the lines of museum stations such as at the Los Angeles Maritime Museum. Are you interested?

This will probably be discussed briefly at the July general membership meeting. Rick Boggs, KB7QLY, Director, Northwest Seaport brought this to our attention.

1999 Ship Museum special event

Amateur Radio stations at nearly 40 museum ships will be active the weekend of July 17-18 for the 1999 Museum Ship Special Event. It gets under way at 2000 UTC on July 17. The USS Salem Radio Club—K1USN—is sponsoring the event. Certificates are available for working five vessels during the weekend. QSL and certificate manager for K1USN is Bob Callahan, W1QWT. Operation will include CW (30 kHz up from band edges) plus AM and SSB on 75, 40, 20, 17, 15, 12, 10, 6, and 2 meters. For more information, visit the web site <http://www.ziplink.net/~rcal/salem>.

Northwest Hamfests

Jack Grimmett, N7IHS

South Coast/Coos County Hamfest

July 31, 1999 - 9:00 AM to 3:00 PM

Brandon, OR

Talk-In: 147.38+ PL 103.5

Spokane Hamfest

ARRL Eastern Washington Section Convention and Computer/Electronics Fair

August 7, 1999 - 9:00AM to 5:00 PM

August 8, 1999 - 8:00 AM to Noon

University High School

10212 East 9th Ave., Spokane, WA

Talk-In: 147.38+ MHz and 146.52 MHz

Tacoma Flea Market

September 11, 1999 - 9:00 AM to 3:00 PM

Frontier Park (Pierce County Fair Grounds)

Graham, WA

Talk-In ; 146.610- PL none

Belling Ham Radio Flea Market
October 30th, 1999 - 9:00 AM to 2:00 PM
Ferndale Band Boosters Bingo Hall
Ferndale, WA
Talk-In: 146.74- PL none

Net Controllers Needed

Calvin Doss, KC7IYP

We need some volunteers to replace Jed as net control for the following dates at the 7:30 PM Wednesday night for the Mike and Key Check-In-Net.

June 30th, July 21st, August 18,

September 15 and 29, October 20

November 17, December 15 and 29

Or any of the dates you wish to take will help. You can contact me by E-mail at:

kc7iyp@aol.com

CW Forever and Ever

Jim Hatherley, WA1TBY

(Submitted by Mike Dinkelman, N7WA)

You must have at times,

Thought into the past,

Where some things go out

While others last

What comes to my mind is

The old Morse code,

That has weathered the storms

From any abode.

To talk with ones fingers

Is surely an art,

Of any info you

Care to impart,

In most conditions

The signals get through,

While the same about phone

Is simply not true.

Those dits and dahs

Cut through the trash,

Of near by noise or

Lightning's crash.

To the sensitive ears

Of the hams receiver,

Who records this data

With ardent fever.

He knows he's doing

Something unique,

(in such poor conditions,

That's quite a feat)

To roger the message
That came off the air,
These brass pounders
Sure do have that flair.

They say Morse ops
Are a dying breed,
But don't despair,
There's always that need,
That when conditions get rough
for the new automation,
Be rest assured,
There'll be need for your station.

CW is dying?
Believe it never,
This mode will be 'round
Forever and ever.

But one thing is sure,
What we really need,
Is to relay our knowledge
To the younger breed.

To carry the torch,
Long after we're gone,
To send Morse code
Through the air like a song.

When at last,
Silent keys pull that lever,
We can rest in peace,
It's CW forever.

Board Meeting Minutes, 6/30/99

Joyce Stroehel, N7JPW

Officers Present: President - Alan (KB7SVU); Vice President - Calvin (KC7IYP); Secretary - Joyce (N7JPW); Treasurer - Chuck (WA7EBH); Activity Manager - Tressie (KC7BAL); Radio Officer - Harry (W7JWJ); Trustee #1 - Jack (N7IHS); Trustee #3 - Jim (W7FKJ); Trustee #4 - Mike (K7JML); Trustee #5 - Mike (KC7YXB).

Visitors: Mary (W7QGP); Dawn (KC7YYB); Dan (N7QHC); Chuck (N7STR); Ronnie (KC7UFS); Jim (K7ND); Jim (KD7BAT).

The meeting was called to order by COB Mike (K7JML) at 7:36 PM at the Salvation Army, Renton.

The minutes of the previous meeting approved as printed in the RELAY.

Officer Reports

President: E-mail regarding the renovation of the radio shack on board the Lightship "Swiftsure", the only remaining steam-powered lightship in the U.S. Technicians are needed to do this. Will need to think about flea market chair. The committee will pick this in September. Need to reserve the Wagon Wheel at Fort Flagler. Several members will take care of it.

Vice President: Calvin has one new member applicant, Marcos (Marc) Miranda (WL7JS), approved to present to general membership.

Secretary: No correspondence.

Treasurer: Looking good. Books balanced. Lost money on campsites of people who did not show up and neglected to let chairpersons know. Recommend by Chuck (WA7EBH) to have people reserve their own sites for next year and be reimbursed after presenting a receipt. Chuck (N7STR) suggested a deposit be made by those signing up for barracks, which will be refunded upon signing in. Since folks did not show, we used both barracks when one would have worked.

Activity Manager: Next meeting, members bring pictures of Field Day and have a Field Day discussion.

Radio Officer: WWARA sent bill for repeater coordination. Notified that we are due in 2003.

Committee Reports

Technical: No committee formed.

Public Service: No report.

Education: Chuck (N7STR) has written no code tech exam book that will be used to teach classes. This will be copyrighted by the club. Chuck needs \$100.00 to print this. Moved, and seconded to approve not more than \$150.00 for the completion of this booklet. Motion passed. Mary (W7QGP) was concerned that we don't always have testing after the club meetings. Jim (K7ND) will notify VE testers in the club if he cannot be here to supervise. There will be no VE testing in the month of December. This will appear in the Web site. Also will be sent to ARRL.

Long range planning: No report.

Facilities: No report.

Field Day: Chuck (N7STR) 8,514 points. If ARRL message received there will be 700 points added. E-mail from Ric that reports were given that we had the clearest station on the band. Thanks to Mike (Tressie's nephew) for all his help. Recommend to board to nominate Mike (No Call); Alan (KB7SVU), Rita (KD7CNM); Joyce (N7JPW) for Field Day MVP to be announced at the next general membership meeting. There were fewer people this year, but the operating got done. There was plenty of help putting up and tearing down. There needs to be 2 persons for Field Day Chair and for each band chair.

Nets: Wednesday night net has a low participation of 2-3 check-ins. Calvin (KC7IYP) asks about changing the night, time, or dropping the net. The Facilities committee will review the net operation and format.

Flea Market: meetings to start in September.

Relay Editor: A new roster will be printed at the end of summer.

Old Business: None.

New Business: None.

There being no further business, the meeting is adjourned.

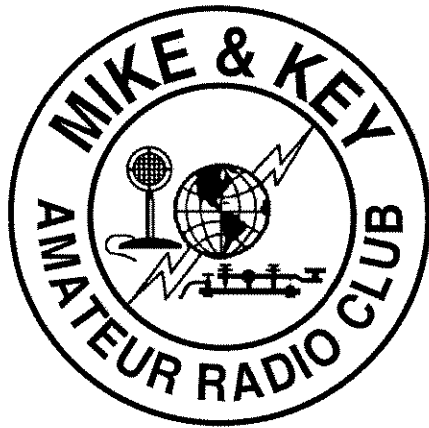
Events Calendar

July

- July 14th**, Wednesday - Mike & Key Net, 7:30 PM
on 146.82 repeater
- July 15th**, Thursday - Public Service Net, 7:00 PM
on 146.82 repeater
- July 17th**, Mike and Key General Meeting, 10:00
AM at Renton Salvation Army HQ
- July 21st**, Wednesday - Mike & Key Net, 7:30 PM
on 146.82 repeater
- July 22nd**, Thursday - Public Service Net, 7:00 PM
on 146.82 repeater
- July 28th**, Wednesday - Mike & Key Board Meeting,
7:30 PM at Renton Salvation
- July 28th**, Wednesday - Mike & Key Net, 7:30 PM
on 146.82 repeater
- July 29th**, Thursday - Public Service Net, 7:00 PM
on 146.82 repeater

August

- August 4th**, Wednesday - Mike & Key Net, 7:30 PM
on 146.82 repeater
- August 5th**, Thursday - Public Service Net, 7:00 PM
on 146.82 repeater
- August 11th**, Wednesday - Mike & Key Net, 7:30
PM on 146.82 repeater
- August 12th**, Thursday - Public Service Net, 7:00
PM on 146.82 repeater
- August 18th**, Wednesday - Mike & Key Net, 7:30
PM on 146.82 repeater
- August 19th**, Thursday - Public Service Net, 7:00
PM on 146.82 repeater
- August 21st**, Mike and Key General Meeting, 10:00
AM at Renton Salvation Army HQ
- August 25th**, Wednesday - Mike & Key Board Meet-
ing, 7:30 PM at Renton Salvation
- August 25th**, Wednesday - Mike & Key Net, 7:30
PM on 146.82 repeater
- August 26th**, Thursday - Public Service Net, 7:00 PM
on 146.82 repeater



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 Amateur Radio. We meet the third Saturday of every month at the Salvation Army Renton HQ, 720 Tobin St., Renton, WA. The Club operates repeaters on 146.82 MHz (103.5 CTCSS) and 224.12 MHz under the call sign K7LED. Two nets meet on the 146.82 repeater: the Club net on Wednesdays at 7:30 PM and the Public Service net on Thursdays at 7:00 PM. All persons interested in Amateur Radio are invited to participate in the Mike and Key ARC and its activities. Yearly dues are \$12.00 for individual memberships and \$18.00 for family memberships.

Volume 27, Number 7

July, 1999

President

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Trustee No. 5

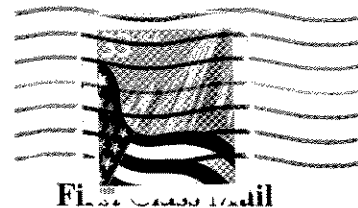
Michael Ross - KB7YBX
206-248-2295
michaeldross@msn.com

Relay Editor

Jack Grimmert - N7IHS
425-271-7955
n7ihs@aol.com

Return To

Jack Grimmert
18128 SE May Valley Rd.
Renton, WA 98059



Next Club Meeting

Saturday, July 17th at 10:00 AM
Salvation Army in Renton
720 Tobin, Renton
Doors open at 9:30 AM for donuts
Talk-in on 146.82 RPTR

Next Board Meeting

Wednesday, July 28th at 7:30 PM
Salvation 5th Army in Renton
720 Tobin, Renton

Program

Field Day Discussions

Sam Sullivan N7RHE 7/00
13626 - SE 232nd
Kent, WA 98042



Check Mailing Label for Dues Status

Mike & Key ARC Web Page: <http://www.mikeandkey.com>