



# K7LED Relay

Volume 25, Number 2

Page 1 of 7

February, 1997

## The Prez Sez

Carolyn, WV7Q

**W**hen I was a relatively new member of the Mike & Key, about three years, a single girl friend of mine asked if she could accompany me to one of our meetings. Naturally, I jumped on her apparent interest and said I would help her get a license. (Fools rush in) Actually, she had purchased a book that recommended Ham Club meetings as a great place to meet single men. (a new alternative to the bar scene.)

We each have to find our own personal value for belonging to any organization. Recently, the Public Service Committee has had two important, well attended, meetings. Intermingled with all the business, I watched a member resolve a major e-mail server problem, (there were two others there who really knew their stuff). Another mentioned his current job search and got several significant leads. Personally, I have learned more about currently available software than I could ever learn from any salesman or from reading the ads. These folks were actually using different programs and were discussing their capabilities and limitations. Recently I received a phone call from a member who had overheard me mention an antenna problem at a meeting. He had discussed it with two other engineering types over lunch, and had some ideas for me. The social aspect of the club is always said to be the most important, but personally, I think it really comes down to the networking that is made possible by that social connection. Although the general meetings allow for some contact, it is actually the smaller meetings that allow for the personal interaction that benefits us all.

Your participation is important to all of the committees. It is the diversity of the committee members that makes our projects successful. Take a few minutes to determine your own personal value for participating in the Mike & Key Club. Then bring yourself to a committee meeting. You may be surprised at how much you can contribute, and you will be amazed at how much you will receive.

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(N7RHE), Trustee #2 - Mary (W7QGP), Trustee #3 - Al (KB7THX), Trustee #4 - Jeremy (WA7YGB), Trustee #5 - Chuck (N7STR).

### Officer Reports

**President:** Carolyn (WV7Q) reminded everybody that the coffee fund is self-supporting, and to take breaks on the West side of the building so as not to be in front of the chapel entrance. Carolyn asked that all be responsible amateurs and to join the ARRL as they are our weight with the government. Don't forget the vote is coming up for Division Director. She also reminded all to sign the roster, including the visitors. The INPUT box is for any business not on the agenda, so if you didn't mention something you want to say to Carolyn, put it in the INPUT box.

The minutes were approved as printed.

Carolyn welcomed our new Trustee #1 Sam (N7RHE) as our new Board member. The technical committee will be looking at setting up an operating stations at the Salvation Army.

The Puget Sound Public Service pamphlet, this year the Mike and Key alone will be handling this. The Public Service Committee will be meeting Tues., Jan 21 to lay out the booklet. Please come, they'd love your help printing, collating, etc.

The Mike and Key Awards banquet needs a chairman. If you're interested, please notify a Board member.

Interested members will be given instructions for shopping at the annual Fleamarket for parts needed for building a QRP rig and antenna to participate in a QRP contest at Field Day. See Bill (KL7BB) for info.

**Vice President:** Frank (K7VMG) presented some applicants for membership. They were: Fred (N7QBD), Melodie and Paul (EA8BPW), Esther (KC7RSW), Sandra (NP), Jim (KC7RGC). All those present were voted in as members.

Frank had the Golden Alligator Award, and tried to present it to Jan (N7WJB) not present, who timed out the Club repeater.



## New Members

Congratulations to the newest members of the Mike & Key ARC.

*Jim Gianacos, KC7RGC*

*Esther Swartz, KC7RSW*

*Melody Forsstrom*

*Fred Lowell, N7QBD*

## General Meeting Minutes, 1/18/97

*Recorded by Melissa, KB7TFF.*

**Officers present:** President - Carolyn (WV7Q), Vice President - Frank (K7VMG), Treasurer - Chuck (WA7EBH), Activities - Mike (N7GVQ), Radio Officer - Harry (W7JWJ), Trustee #1 - Sam

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**Treasurer:** Chuck (WA7EBH) announced that the books are open for any and all who would like to peruse them. We have sent a check for \$800 to ARRL for defense fund. Total contribution is \$1000. Club insurance has been tracked down and has been renewed as soon as they get the paperwork. We need this for the Fleamarket.

**Activities:** Mike (N7GVQ) that the day's program is to be on generators. Roger is a retiree from Puget Power, and should be very interesting.

**Radio Officer:** Harry (W7JWJ) notified everyone that the ARRL QST from 1915-present, and the ARRL handbook are now available on CD-ROM. The CD only works on Windows 95 and will not work on the 3.1 version. The FCC said that we do not have to recognize the ANSII regulations for another year, but also allowed the Broadcast Company's new standards. For more information, contact Harry (W7JWJ).

**Chairman of the Board:** Al (KB7THX) reported that the Club did not spend any money at the last Board meeting, and that the by-laws are under construction and will be presented to the General Membership for approval or disapproval next General meeting.

#### **Committee Reports:**

**Field Day:** Chuck (N7STR) asked that anyone interested in chairing a band please see him. On February 8th there will be a work party up at Fort Flagler, if you want to help, contact Chuck. There are many parts of Field Day including assembly, disassembly, potluck dinner, etc. Please help out!

**Public Service:** Jeremy (W7YG) announced that the Public Service Committee would be meeting at the Southcenter Denny's to work on the pamphlet. He also announced that he would like a wide spectrum of people to work on the pamphlet. Brand-new hams are welcome to come and give their input and what would be useful to a new ham.

**Flea Market:** Chuck (WA7EBH) announced that the Flea Market is coming up on March 8th at the Puyallup Fairgrounds, and we need help making it work. There will be the traditional Chinese dinner afterward on Saturday evening after the clean-up. Get in touch with Chuck if you want to help.

#### **Input:**

- 1) Dan (N7QHC) reminded: Don (KB7UYA), Nicole (KC7PXN), Casey (K7JX), Larry (AB7FJ), Carl (WA6SGE), Doc (N7JHJ), Jed (KC7RIL) Richard (KC7NTE), Esther (KC7RSW), Al (KB7MPU), and David (KC7RRH) that their badges are completed and ready for pick-up.
- 2) Mary (W7QGP) printed out a list of Puget Sound repeaters and homepage addresses.
- 3) Bill (KL7BB) asked why we need a new 20 meter beam for Field Day. Al (KB7THX) suggested that some replacement components can be found to help the aging antenna instead of replacing the whole thing.
- 4) Bill (KL7BB) reminded everyone to sign up for the 40 meter receiver kit. The kit will be priced

by next month, between \$20-25.

- 5) Bill (KL7BB) asked if the Flea Market committee should consider a back-up site because of the excessive flooding happening in Puyallup?

The Board meeting is on Wednesday, January 29 at 7:30.

Meeting adjourned.

### **Any CW OPS?**

*Mike, N7WA*



For the past couple years, I have been disappointed in the level of support at Fort Flagler for our CW efforts. I get lots of people saying they will be on the Beach but it's been ending up as a strong man effort by a few operators. I remember a time when we had to fight for operating time and there would be two people (one duping) during a shift just to accommodate them all. Now, well.....I'm lucky if I can get someone to fill in during dinner and, most likely, it'll be someone coming off shift from the other CW station.

So, before I commit to Field Day CW this year, I am looking to see if others are going to do so. I know that Chuck, our fearless Field Day Chair has one commitment for a 40M CW band chair but I what to know is... who is planning to OPERATE? I define operate as getting on the key (not just duping) and for more than an hour or two (it's amazing how many would rather sleep at 2:00 AM). Myself, I love operating 16-20 hours but old age is starting to creep up on me and when you crank in setup, tear-down, and the time required to redecorate the SSB site, it's too much. The sense of camaraderie, which was a source of strength in past years, has also largely disappeared. Frankly, it would be easier to operate from my own backyard and sleep in my own bed if it's going to be largely an effort of just a few guys/gals.

So how about it? I am willing and able. I love Fort Flagler and Field Day but do we have a committed CW team? Let me know.

### **40 Meter Project**

*Bill, KL7BB*

The 40 Meter receiver project is on its way. Initial sign-up was very good. You can sign up and pay (expected \$20-\$35) for the project with the Club treasurer, Chuck WA7EBH, by the end of the February Meeting. A working model will be at the Meeting for all to see and operate. For those of you who want a sneak preview, look at QST, August 1995, Page 22-25. This project can be used and the Mike & Key ARC Field Day gathering for the WAFF contest (see related article in this issue).

The project will be using the FAR Circuits PC board. The major parts for the project have been

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located, U-1 mixers, Y-1 7.111 MHz Xtals, wire for coils, coil forms, etc.

The receiver project will be started at the February meeting. This will allow everyone to get going on getting all of the misc. parts and a case/enclosure to put the project in. The project will be using the FAR Circuits PC board and the major parts have been located, U-1 mixers, Y-1 7.111 MHz Xtals, wire for coils, coil forms, etc. The Flea Market in March can supply all of those little extras like fancy tuning knobs, speaker grills, cases, your choice of hand key or Bug or electronic keyers.

The receiver assembly will start after the end of the March meeting and will be completed at/after the April meeting. The rest of the project will be done during a "0 dark:30" time on the eve of field day. After all the other jobs are done at 9:30 PM in the barracks meeting room, the transmitter will be constructed and interfaced/connected with the receiver you have built. The transmitter building will go until completed, no matter how late.

At the completion of the receiver/transmitter you will be provided a simple antenna kit. This will allow you to hookup and get your rig on the air. If you want to build your antenna in advance feel free to do so.

#### Recap:

1. February - Sign-up for receiver kit. Get parts list and diagram.
2. March - Locate additional parts at M&K Flea Market. (Rx & Tx)
3. March - After meeting start receiver assembly.
4. April - After meeting finish receiver kit.
5. May - Sign-up for transmitter kit. Get parts list and diagram.
6. June - Build transmitter on field day evening starting at 9:30 PM.
7. June - Assemble station and operate WAFF contest Saturday and Sunday.

We can use all of the help we can get from all interested club members to get on board and start helping with the parts location and provide assembly assistance to the folks building the kits and other things that can make this project a lot of fun. If you know of a source (like your old parts bins) of any of the other IC's, resistors, capacitors that could be used on this project or if you have electronic construction and assembly skills and would like to help, please contact me (206) 927-1054.

Who will build the next Mini Antenna tuner? Who will design the next QRP/ KW power amp? Who will construct the next 8JK, G5RV, Quaggi antenna for Fort Flaggler? There are many acres of land just waiting for your innovations. Who will sponsor the next mini/maxi international contest or event?

### What's in a Zip Code

We have had some trouble receiving mail from some folks, so pay attention kids and you shall find out

why. It's the Zip Code!! The Mike & Key zip code is 98083, that's 98083. Strangely enough other combinations of numbers don't seem to work well, just 98083. The Mike & Key ARC's full address is:

PO Box 2121  
Kirkland, WA 98083

### Field Day Report

Chuck, N7STR

As I told you last month, Field Day is Coming and the following brave souls are the Band chairman who have signed up so far.

#### Phone:

- 2 meters - Paul, N7DOH
- 6 meters - Little John, WA7HQG
- 10 meters - Melissa, KB7SDC
- 15 meters - Carolyn, WV7Q
- 20 meters - Ken, K7YR
- 40 meters - Dean, N7NKO
- 75 meters - Mary, W7QGP
- Satellite/Packet - Mike, WB7AYU

#### CW:

- 15 meters - Mike, N7WA
- 20 meters - Chuck, KE4XH
- 40 meters - Mike, N7WA
- 75 meters - Chuck, KE4XH

These people need a lot of support and help, and I know that your commitment to assist with setup, operating, and take down as well will be of great encouragement to them. Remember, Field Day isn't just showing up and operating, it involves planning, and participation on all levels. One of the most discouraging things a band chairman goes through is before the contest starts, all the equipment setup (including tents and special antennas) and when the contest is over, watching everybody disappear and leave them with the mess to put away. When you come to field day you are expected to help with the hard parts as well as take advantage of the fun. That doesn't include standing around and visiting, getting in the way, or giving advice, it means getting dirty, sweating and being a team.

I have learned one important thing at Field Day. The members who get in and help have earned the right to express opinions, attitudes and suggestions with regard to how future Field Days should be run, and how the money for improvements should be spent. They are also the people in the club that love this hobby and get the most out of the relationships that are built from working together. Respect for another persons ability is based on their actions not their words.

Don't ever think the Mike and Key is just a club, it's a family that disagrees' on some things, agree on others and most importantly, if you need help, they will be the first ones to offer it to you. Oh yeah, I just remembered, I need a Wagon Master, Chuck Wagon Master, Non Ham Activity Coordinator,

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someone for Handouts, and someone for publicity.

I also learned that if you need help, and nobody knows, you better ask for it.

## Operating In a Dead Band

Bill, KL7BB

This is a operating technique to operate and make contacts in what appears to be a dead band. During the field day event the 20 meter band appears to die several hours after sunset. This is a very common observation especially while at the bottom of the 11 year sun spot cycle.

While having operated this band during this time period for the last five years we (KL7BB & KC7ACX) have had a lot of contacts by just continuing to call CQ FD in to the dead band. The facts are that during any major operating event there are thousands of extra stations on the air that are located in so many different locations from the normal that there are many more chances for contacts to occur. By just continuing to call "CQ FD de K7LED qrz" — listen for three seconds — and call "CQ FD de K7LED qrz" — listen for three seconds — etc. and just keep repeating, contacts are made.

There are all kinds of little micro openings of 20 to 40 seconds in length that happen all through the night. The one sure thing is "No contacts are made if a open band has operators at each end that are just listening to their receivers". The only way you will prove that the band is open is to get your transmitter on the air and call for another station to answer your call. Using this technique we have logged up to 3 contacts per minute. This usually means to Tx for up to 10 seconds and Rx for up to 10 seconds before going on to the next contact. Operator and Logger will have to really work as a team to keep up with all the chores. If both are wearing headphones it will help in turning out all of the rest of the background noises and help you get the calling stations call sign right the first time. Repeats cost you time and tempo. A well rested operator team is a must to keep up a two or three hour shift. A short nap or quiet time of one to two hours before your time slot can improve your fun. The secret to opening the band is to be the first one calling, even if the band just closed 30 seconds ago.

## By-Laws Revision

Ray, WA7EKH

The by-laws committee finally finished up with the Executive board at the last Board meeting on 29 January 1997 and the Members should hear about it at the February meeting. A mailing to all Club members will be sent out soon after that meeting.

## Buy, Sell, Trade, or Wanted



*This column is available members and relatives or friends of member (no dealers please) who have electrical/electronic equipment (including computers and software) related to Amateur radio for sale or trade. Ads will be run for two months unless the editor is notified otherwise.*

### Estate Sale

The following are from an estate sale. For further information or to see the equipment, please contact Charles Stroehrer WA7EBH at 392-5303. Prices are asking prices.

- \* Yaesu FT101 160-10 Meters plus WARC low hours — \$400
- \* AEA PK-80 Packet — \$125
- \* Auto Tuneup scope — \$50
- \* VHF tuneable monitor receiver — \$25
- \* Public Address system — \$50
- \* Various clock radios and stereos — \$10 to \$50
- \* CB Radios — \$10
- \* Various Test Equipment and meters
- \* Various homebrew projects - power supply and HD HF tuners
- \* A collectors Item Skyrider Receiver Good condition
- \* Lots of technical manuals and ARRL handbooks

Note: If someone knows of a school that would like ham radio technical data books and reference material, please give me a call. The Hams widow would like to see a school have some of the good books for the students.

### For Sail Cheep!!

I still have that fifty foot telescoping steel pipe antenna mast. Would be perfect for your Inverted Vee antenna as the center mast. Still here for forty bucks. Give me a call at 226-4222. Gib (W7JIE)

## WAFF Contest

Bill, KL7BB

This year at Field Day we will hold the first annual "Worked All Fort Flagler (WAFF) contest. This contest is intended to provide chance for those participating in Mike & Key ARC "40 meter Project" (see related article) to use the receiver and transmitter they will build. W7JWJ already has a head start, he found his home brew 1/2 watt transmitter and is now building a matching receiver.

Contest Rules:

1. All equipment must be home brew.
2. All contacts must take place during Field Day and only with those stations at Fort Flagler.
3. All equipment will be operated at Fort Flagler Washington.
4. All Contacts will be in the Novice bands and NO contacts with the Club Field Day stations will be counted. (K7LED contacts will not count).

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5. Extra points will be given for Battery Power, Solar Power, Earth Current Power but not if you effect our Earth Orbit.

6. Portable operation is encouraged (whip antennas ?). Bike Mobile, Motor Home Mobile, Wagon Wheel Mobile, Boat/MM, Hand Glider/Air Mobile, Horse and Scooter Mobile, Skate Board and Roller Blade Mobile, and last, Golf Cart Mobile (Fort Flagler Rules require that you weigh more than 50 pounds, so the Mosquitoes don't carry you away from the course) are methods of transportation allowed. If you choose to operate from the commercial power 110-220 Volt AC, you will not receive a portable power Multiplier Point.

## Board Meeting Highlights

*Al, KB7THX*

The January meeting was held January 29 (the last Wednesday of the month). The following are the meeting highlights.

1. Carolyn (WV7Q) reported on e-mail that she had received from the ARRL that gave a Northwest break out of the national survey in QST about the ongoing relevance of CW. The sample size was large, our regional results were similar to the national results.

2. Frank (W7VMG) reported no new membership applications.

3. Mike (N7GVQ) shared his line up for general membership program topics through December (Wow way to go Mike). The February general meeting will be devoted to the Flea Market. We need more folks to volunteer on the sign-up sheets to help out. Shifts are short, often only an hour, leaving you ample time to visit friends and shop for bargains. Talk In and the Announce Booth, in particular need help.

4. Harry (W7JWJ) reported on the new EAS (replaces EBS) system that became effective January first. Harry is keeping his eyes open for a repeater capable of receiving and responding to EAS commands. More on this as it develops

5. Jeremy (W7YG) will hold the next Public Service meeting on February 4th at the South Center Denny's

6. Mary Lewis (W7QGP) needs volunteers to help set up a ham station at Showwalter Middle School in Tuckwilla in late February. She also needs a ham who would have time during school to give a ham radio demonstration to the school children. Call Mary on both these items.

7. The Club's Award Banquet is in early April. This event still needs a chairman to arrange a restaurant, menu and program. One possibility suggested was to meet at Emerald Downs Race Track. If interested in chairing this event please let me know.

8. The big, time consuming portion of the meeting was in reviewing the proposed changes to the clubs by laws. That task has been completed and will be reported at the next general meeting, changes will then be mailed to each member and a vote will be

held at the March general meeting. .... all this in accordance with article 11 of our by laws.

The next meeting of your Board of Directors is February 26 at 7:30 PM at the Salvation Army building in Renton. Everyone is welcome.

## ARC Membership Roster

For sometime now I have been trying to put together a Mike & Key ARC membership roster but other commitments have prevented me from doing so. Now I am just about ready. I believe that I have all of the addresses correct, but if you have changed your call-sign, license class, or telephone number in the past year, please let me know. Also please check your mailing label on this issue of the RELAY to see if you call sign is shown. I am missing a number of call signs.

Since the use of e-mail has increased tremendously in the past year, I am going to include that information in the roster. I have e-mail addresses for the following people. If your name is on this list and you do not want your address published, let me know. If your name is not on this list and you do want to be included, let me know. My e-mail address is grimmitt@halcyon.com. - ed.

Ned Akerman (N7PWR)

Melissa Allen

Casey Angeloff (K7JX)

Rick Antes (KF7VG)

Bill Balzarini (KL7BB)

Chuck Benefiel (N7STR)

Jack Burrell (KB7ZS)

Paula Cather (AB7ME)

Jim Christianson (K7ND)

Jed Clawson (KC7RIL)

Richard Danielson (KC7ACM)

Diane Dinkleman (KB7DNE)

Mike Dinkleman (N7WA)

Jerimy Donimirski (W7YG)

Melissa Donimirski (KB7TFF)

Raleigh Elkins (WB7WNF)

Chuck Foltz (KB7OS)

Mike Foster (N7GVQ)

Doug Garman (AB7IV)

Gerrie Garman (KB7WSJ)

Gib Gibson (W7JIE)

Hal Goodell (N7NW)

Chuck Griggs (KC7EOP)

Jack Grimmert (N7IHS)

Dan Hale (KC7IEI)

Jim Hamlin (W7FKI)

George Hammel (WA6MYU)

Darla Harris (KC7SIT)

Pete Hedberg (K7WTG)

Frank Henshaw (K7VMG)

Debbie Hiraki (KB7QMQ)

Dean/Sheila Holton (N7NKO)

Rick Hood (KC7CRS)

Al Hopwood (Al KB7THX)

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Allen Hughes (KB7SVU)  
 Tressie Hughes (KC7BAL)  
 Jackson, Kathryn KC7RTY  
 Ken Jackson (K7PZX)  
 Chuck Jones (KE4XH)  
 Jeff Jorgenson (KC7JYC)  
 Pete Kozlowski  
 Eleanor Leslie (KB7EBC)  
 Ray Leslie (WA7EKH)  
 Harry Lewis (W7JWJ)  
 Mary Lewis (W7QGP)  
 Dick Lundstrom (WA7UEW)  
 Esko Mannisto (N7VMV)  
 Wayne Moddison (K6DOW)  
 Carolyn Pasquier (WV7Q)  
 Tom Patterson (N7VDU)  
 Adrian Roth (KB7BV)  
 Paul Roth (N7DOH)  
 Tom Sanders (W6QJI)  
 Dave Smith (KB7PSN)  
 Larry Smith (AB7FJ)  
 Doug Stangler (AB7BU)  
 Robert Storwick (AA7ZC)  
 Chuck Stroehrer (WA7EBH)  
 Sam Sullivan (N7RHE)

## Board Meeting Minutes, 1/29/97

*Recorded by Melissa, KB7TEF*

Al (KB7THX) called the meeting to order at 7:35 PM.

**Officers present:** President - Carolyn (WV7Q), Vice President - Frank (K7VMG), Secretary - Melissa (KB7TFF), Treasurer - Chuck (WA7EBH), Activities - Mike (N7GVQ), Radio Officer - Harry (W7JWJ), Trustee #1 - Sam (N7RHE), Trustee #2 - Mary (W7QGP), Trustee #3 - Al (KB7THX), Trustee #4 - Jeremy (WA7YGB), Trustee #5 - Chuck (N7STR).

### Officer Reports:

**President:** Carolyn (WV7Q) announced that she had received an e-mail that the ARRL Division Homepage will list your homepage as a link, if you'd like. If you want your homepage address listed send e-mail to Robin Stewart (N7NHF) N7NHF@srv.net. The Gallatin homepage is at [www.imt.net/~sputnic/ghrc/ktn](http://www.imt.net/~sputnic/ghrc/ktn).

Carolyn also announced that she had received a club survey, and would like the rest of the Board's feelings on some of the questions. She will e-mail the questionnaire to the Board members.

**Vice President:** Frank (K7VMG) announced that he had no applicants for membership.

**Treasurer:** Chuck (WA7EBH) gave financial statements to those who were unable to attend the previous Board meeting. The Total Income includes the money taken from the CD, so if you subtract that amount, the resulting number is profit.

Also, our Insurance policy with Wohler's will be

effective February 1, 1997 - January 31, 1998. A copy has been sent to the Western Washington Fairgrounds in preparation for the Fleamarket.

The license renewal for the tower trailer has been sent (the trailer is currently located at Fort Flagler). The Generator trailer license renewal ends at the end of September.

Audit notices will be sent out the second week of February.

**Secretary:** Mike (WB7AYU) father passed away Friday, January 17. A condolences card has been mailed out.

Because Gerhard (CL8GBP) had not been receiving RELAYS consistently, the past 5 months worth of issues has been mailed to his address in Germany, to make up for the issues missed.

**Activities:** Mike (N7GVQ) passed around tentative programs for the coming year.

**Chairman of the Board:** Al (KB7THX) announced that highlights of the Board meetings would be e-mailed to members who have e-mail addresses. Also, info has arrived from Bellevue, should we want to have the Club picnic there again next year.

Al has 5 sheets of plywood at his house for the Club closet (the last two doors next to the double glass doors that lead outside) but there is not yet a design for the implementation of the closet. If there is any plywood left over it could be used for the trailers.

**Radio Officer:** Harry (W7JWJ) notified everyone that the Emergency Alert System might start requiring all receiving/transmitting stations to be plugged into a main Emergency Alert System that could turn on/off the system remotely. Harry also showed a QRP transmitter used at Franklin High School.

### Committee Reports:

**Public Service:** Jeremy (W7YG) announced that the Public Service Committee had a meeting and 15 attended. There were a lot of good ideas kicked around, such as pictures of Field Day in the booklet. For the next meeting there will be a tentative booklet put together for comment. The next Public Service meeting will take place Feb. 4.

**Technical:** Sam (N7RHE) got the sign out sheets for the analyzers.

**Education:** Mary (W7QGP) announced that some equipment has been secured for the Showalter Middle School. Volunteers are needed to help put the station together, and demonstrate it to the kids. This will take place in late February. ICOM called the school and said that they were no longer interested in donating equipment, however, ICOM never notified Mary of this.

The books purchased by the Club for the New Options Middle School resulted in 4 students passing the Novice test, and one passing the Technician. They would like to come and thank the Club in person. Carolyn (WV7Q) extended an invitation to come to the February meeting.

**Facilities:** Doug Garmen (AB7IV) is no longer a member of the Club for lack of dues, and is thus no longer the chair of the facilities committee.

**Field Day:** The Field Day committee would like some volunteers to shop for a new 20 meter antenna at the Fleamarket because the current antenna is old and is falling apart.

Mike (N7WA) the traditional chairman of CW Beach has asked if there is any support for CW Beach, because if not, he will not come to Field Day. The reservations for the barracks and the Wagon Wheel are all set.

**Fleamarket:** The next meeting will be on Thursday, Feb. 6. 75% of tables have been sold, and all of the first floor is sold out. Only the second floor is open. If anyone wants to secure a table, please con-

tact Diane (KB7DNE).

**Old Business:** The Board discovered it had the power to change the by-laws suggestions made by the committee. A discussion of the by-laws revision followed. A motion was made and seconded to publish the new revisions and present them to the General Membership.

**New Business:** A Banquet chairman is needed for the Club's banquet. The suggestion was made to have the Banquet at Emerald Downs, and the new chairman will need to look into this idea. The Banquet is held the first week of April.

### NCDXF/IARU Beacon Transmission Schedule As of January 9 1997 Gib, W7JIE

This table gives the minute and second within each hour of the start of the first transmission of each of the new five-band beacons on each frequency. Transmissions currently being sent are indicated by "\*".

Each transmission is repeated every three minutes. A transmission consists of the callsign of the beacon sent at 22 words per minute followed by four one-second dashes. The callsign and the first dash are sent at 100 watts. The remaining dashes are sent at 10 watts, 1 watt and 0.1 watt.

The actual starting time of each transmission is approximately twenty milliseconds after the nominal time due to the keying delay of the transmitter. Equipment used at each beacon site includes a Kenwood TS-50 transceiver, a Cushcraft R-5 vertical antenna, a Trimble Navigation Accutime GPS receiver, and a controller built by the NCDXF. For more information contact the northern California DX Foundation, Post Office Box 2368, Stanford, CA. 94309.

Slot	Country	Call	14.100	18.110	21.150	24.930	28.200	Operator	Notes
1	U.N. *	4U1UN	00:00	00:10	00:20	00:30	00:40	UNRC	1
2	Canada *	VE8AT	00:10	00:20	00:30	00:40	00:50	RAC	2
3	USA *	W6WX	00:20	00:30	00:40	00:50	01:00	NCDXF	3
4	Hawaii *	KH6WO	00:30	00:40	00:50	01:00	01:10	UHRC	4
5	New Zealand	ZL6B	00:40	00:50	01:00	01:10	01:20	NZRT	5
6	Australia	VK6RBP	00:50	01:00	01:10	01:20	01:30	WIA	6
7	Japan *	JA2IGY	01:00	01:10	01:20	01:30	01:40	JARL	7
8	Heard Island	VK0IR	01:10	01:20	01:30	01:40	01:50	VK0IR	8
9	China	BY	01:20	01:30	01:40	01:50	02:00	CRSA	9
10	Sri Lanka	4S7B	01:30	01:40	01:50	02:00	02:10	RSSL	10
11	So. Africa *	ZS6DN	01:40	01:50	02:00	02:10	02:20	ZS6DN	11
12	Kenya *	5Z4B	01:50	02:00	02:10	02:20	02:30	RSK	11
13	Israel *	4X6TU	02:00	02:10	02:20	02:30	02:40	Utelaviv	11
14	Finland *	OH2B	02:10	02:20	02:30	02:40	02:50	Uhelsinki	11
15	Maderia *	CS3B	02:20	02:30	02:40	02:50	00:00	ARRM	11
16	Argentina *	LU4AA	02:30	02:40	02:50	00:00	00:10	RCA	11
17	Peru	OA4B	02:40	02:50	00:00	00:10	00:20	RCP	12
18	Venezuela *	YV5B	02:50	00:00	00:10	00:20	00:30	RCV	11

Note 1: On the air, temporary antenna.

Note 2: On the air, temporary site.

Note 3: Not licensed for 18110 and 24.930 mHz beacon.

Note 4: Not licensed for 18110 and 24.930 mHz beacon, temporary site.

Note 5: Expected on the air in January, 1997.

Note 6: Equipment shipped on January 5, 1997

Note 7: Currently licensed for 14.100 mHz only.

Note 8: On the air January 1997 only, eventually to be used by Russian beacon.

Note 9: Call and locating site for beacon to be determined.

Note 10: Located in Sri Lanka

**Support the Flea Market**



# 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 SE corner of the Renton Airport. The Club operates repeaters on 146.82 MHz (103.5 CTCSS) and 224.12 MHz under the call sign K7LED. The following 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. The Club's mailing address is PO Box 2121, Kirkland, WA 98083. All persons interested in Amateur Radio are invited to participate in the Mike and Key ARC and it's activities. Yearly dues are \$12.00 for individual memberships and \$18.00 for family memberships.

Volume 25, Number 2

February, 1997

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First Class Mail

### Next Club Meeting

Saturday, February 15th 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

Sam Sullivan N7RHE 7/98  
13626 - SE 232nd  
Kent, WA 98042

### Next Board Meeting

February 26th at 7:30 PM  
Salvation 5th Army in Renton  
720 Tobin, Renton

### February Program

Flea Market Planning



Check Mailing Label for Dues Status

