



K7LED Relay

The Prez Sez

Carolyn - WV7Q

I remember when my little brother was 12, he got his Citizen Band license. He was so excited about that 5 Watt capability. Then when he was 14, he went to work for a 100 Watt local AM station and his enthusiasm grew. At 16, he moved to a 150 Watt radio station and relished in his on-the-air-time. As his career in broadcasting flourished, he worked for 1000 Watt stations, AM & FM, and eventually purchased a 1000 Watt FM broadcast station in Pacific Grove, CA. I can still recall his frustration when in 1987, I purchased a 1500 Watt (PEP) amplifier for my HF operations. "Do you have any idea," he said to me, "how much I paid for this station? And I am restricted to a maximum of 1000 Watts. I can't believe that you can run more power than me, with a Ham license!" But, technology continues to raise man's capabilities. My brother needs to know about HAARP, using the Ionospheric Research Instrument (IRI), the largest HF Radio Transmitter ever built. It is designed to concentrate several Megawatts into an intense beam of almost unimaginable strength, through miles of planar antenna arrays on the "short wave" band. (HF, but also UHF, ELF, and VLF) The High Frequency Active Auroral Research Program is to be a major Arctic facility for upper atmospheric and solar-terrestrial research. Scheduled for completion in 2002, it is being built on the abandoned, over the horizon radar facility called "Backscatter," near Gakona, Alaska. It is jointly managed by the Air Force and the Navy. It has been running since December 15, 1994 at about 1/3 power level the current array is configured for. There are about 20 Web Pages on the Internet that show pictures of the antenna arrays. Just do a quick Web Search for HAARP.

HAARP is designed to transmit a very narrow beam width to the ionosphere, our naturally occurring safety shield. we can visualize the ionosphere as a three layer, energy bubble 35 to 620 miles above the earth's surface that keeps damaging rays from entering our immediate environment. The Aurora is typically the first 37 to 56 miles, the E Layer 56 to 93 miles up and 94 to 620 miles encompasses the F Layer. As Hams, all we need for long range communications is the F Layer, and a good sun spot cycle.

The IRI has been described as an Ionospheric Heater because its ultra-power waves cause this electrically charged region to vibrate, and maybe even glow like the "Northern Lights." Because the returning transmission will penetrate the earth and the ocean, it can communicate with submarines, or look into the earth several kilometers to locate underground tunnels, nuclear facilities, shelters, and mineral deposits. It can also look from the ionosphere to the earth's surface for incoming objects such as cruise missiles. By creating an energy field around the objects, it can tell which ones have nuclear payloads. The military currently defines HAARP as a "proof of concept" project to research over the horizon radar, distinguishing objects, and communications. However, it is known that certain frequency ranges can cause biological effects, bit

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errors in computers causing the to malfunction, and electronic circuits to burn. So Little Brother, what is the military really researching with all of this power? And should we be concerned about long term effects to our R Layer?.

Just a little something to think about.

General Membership Meeting, 2/18/96

Call to Order/Pledge of Allegiance: Welcome to members and visitors: Carolyn (WV7Q) welcomed first time visitors, asked they refrain from voting, and that they sign the attendance rosters, so that complimentary copies of the RELAY can be sent to them. She reminded us that the coffee and doughnut fund is self supporting, please remember to donate. If you take breaks outside the building, the Salvation Army requests that we please use the west side. She called for approval of the minutes of the last membership meeting, as published in the RELAY. A correction was noted to Doug's (AB7IV) callsign. With this made, the membership voted to approve the minutes.

Introductions: New Members: Don Taylor (KC7MPI) and Katy Taylor (KC7MPH) have been members since October. Visitors and guests were introduced.

Officer's Reports:

President: - Carolyn (WV7Q) introduced the 'Input Box', to be used for announcements, suggestions, ideas, upgrade, upcoming activities, or questions. Put these in the box, and a ten minute period will be used during the meeting to handle them. This will help keep the meetings down to a reasonable time. The input box is also for any business that has not been submitted for the meeting agenda. The Ham Youth Workshop is taking place during the meeting today and during the next general meeting. The Mike and Key is a family oriented club, and Carolyn is most pleased to be able to offer these youths this fun activity during our meeting.

Vice President: - Debbie (KB7QMQ) reminded everyone to sign the attendance rosters. If you need to renew your membership, please see Jack (KB7ZS). She had applications for membership to the club and the ARRL, sponsor sheets, membership rosters. Debbie presented the applicants for membership: They were Dave Kassens (not present), Tim Rourke (KC7IYH) (not present), Walbridge Powell (KC7GZI), Adrian Roth (KB7BVL), Paul Roth (N7DOH), Patrick O'Nolan (not present), Robert O'Nolan (not present), and Martha Rickard (not present). The members voted to accept Adrian and Paul as members.

Secretary: - Ryan (N7TNI) was ill, Mike (N7GVQ) substituted for him.

Treasurer: - Chuck (WA7EBH) was on vacation, Jack (KB7ZS) substituted for him. Jack gave a report on the financial status of the club, and had the books available for the members to inspect if desired.

Activity Manager: - G. Ray (KB9HHK) was not present.

Chairman of the Board: - Al (KB7THX) announced that Harry (W7JWJ) has been appointed as our new radio officer. Harry has had a long career in commercial broadcasting as chief engineer for a number of Seattle radio stations. For the more athletic aspects of the job, he has recruited Sam (N7RHE).

Radio Officer: - Harry (W7JWJ) reported that the main repeater is still off the air, until our host is available to open the door for us. The backup repeater, located at the QTH of Dan (N7QHC) in West Seattle is on the air. This machine uses a 100 Hz tone, not 103.5. Harry discussed the future of the repeater with Paul (N7DOH) (who has a four wheel drive vehicle), Bill (KL7BB), Doug (AB7IV), and Sam (N7RHC). Harry did a presentation on the state of the art when he first got on the air on two meters. Harry said that the backup repeater is about half way between current technology and the vacuum tube he showed, and may need to be replaced sometime in the future. Harry said that although the backup machine does not have the coverage that our main one does, he was able to access it from within ten miles of Bellingham. Harry informed us that we had four radio club presidents attending our meeting this morning. They were Carolyn (WV7Q) - Mike and Key, Harry (W7JWJ) - NSARC, Ray (KB7VMS) - BEARS, and Gil (KB7ZQT) - Issaquah ARC.

Sam (N7RHC) explained the Repeater advisory committee, and what they hope to accomplish.

Carolyn thanked the officers and committee chairs who had submitted reports in time for publication in the RELAY.

Committee Reports:

Flea Market: - Mike (WA7UVJ) announced everything is going great, the committee will meet again on February 29th at 7:30 PM at the Salvation Army Headquarters. If you have signed up to work, your badges should be ready to pick up. The event is fourteen tables short of being sold out at this time.

Education and Training: - Frank (K7VMG) was the only attendee at the last meeting. The next one will be March 4th, 19:00 at the South Center Denny's.

Technical: - Tom (N7VDU) reported they will meet next on March 16th, at 9:15 PM before the next general meeting. They met today with the Facilities committee to discuss antennas for the club stations, and talked about equipment needs for the club station, and asked for donations and ideas on what will be needed.

Facilities and Planning: - Chuck (N7STR) reported on the joint meeting this morning with the Technical committee to discuss antennas for the club station. They decided to go with omni-directional HF and VHF/UHF antennas. There was discussion on the choices that had been made. Nils (WB7TJK) suggested that we submit input to the technical committee, and have that committee let the Salvation Army know that they are not going to be able to get the communications abilities they said they wanted, due to the restrictions being placed on the antennas we can install.

Carolyn/WV7Q commended our new RELAY editor, Jack/N7IHS on the format and look of the newsletter.

RELAY: - Jack (N7IHS) apologized that some people were shorted a few pages, due to a problem COSTCO had, contact him and he can get a new copy. Jack would really appreciate getting submissions early this month. Nils (WB7TJK) said that in the past, he would go out and get the RELAY from the mail, but this month, Jo (KB7UFM) got to it first, and he had to fight her to get it. Keep up the good work, Jack. Stephen (KB7WKK) liked on the new look and found it easier to read, and Lloyd (WA7HNY) enjoyed the editorial.

Input Box: - Al/KB7THX: Rick (KC7CRS) suggested we have a Web page on internet. Anyone interested in getting a Web page set up for the club, please see Rick during the break.

Mo (WB0RTF) and Bill (KD0JD) sent a "Greetings from Colorado" letter to the club. They suggested posting the RELAY and a membership roster on the internet.

Chuck (KB7OS) wanted to remind us that Field Day is coming up June 21-23 at Fort Flagler State Park. Chuck will have sign up sheets for helpers, band chairs, wagon wheel camping, etc. at the next membership meeting. RV camp site reservations should be made ASAP. For more information on the event, contact Chuck (N7STR), Mike (N7GVQ), or Chuck (KB7OS).

Ross (N7NZJ) is the communications chair for the Washington State Winter Special Olympics, to be held March 1-3 at Mission Ridge Ski area. Ross is looking for volunteers to help out with the event. His phone number is (206)-487-2499, or on the Internet rossholly@aol.com.

Jack (KB7ZS) had a correction to the minutes, no reservation fee is needed for staying at the Wagon Wheel. The reservation fee (plus the first nights

camping fee) is what's needed if you reserve a camping spot elsewhere in the park.

Old Business:

Awards Banquet: - Pete (K7WTG) reported the event will be April 13th, there was information printed in the RELAY. Please sign up early, they can hold your checks until April 6th before cashing them. The location will be the Bellevue Red Lion Hotel, just off I-405.

Alligator Award: - Carolyn (WV7Q) was the current holder of the trophy. Since the repeater has been down all month, Carolyn had to come up with some new criteria for selection. The person she chose would never time out the repeater, his operating procedures are that good, but she said he's come close to timing out simplex, even in the club meetings. Carolyn selected Nils (WB7TJK) this month for this coveted award.

Lloyd (WA7HNY) asked about the new meeting format, Carolyn explained the changes were an attempt to streamline the meetings.

Carolyn (WV7Q) reported that the members of the Nomination/Selection committee are the trustees, and that nominations were opened in January, for the positions of President, Vice President, Secretary, Treasurer, Activity Manager, and Trustees #2 and #4. Carolyn turned the floor over to Al (KB7THX) at this point. Elections will be held next month at the March general meeting.

For President the nominees are Carolyn (WV7Q), Chuck (WA7EBH) (not present to accept/decline) and Ray (WA7EKH).

For Vice President the nominees are Frank (K7VMG), Bill (KL7BB), and Tom (N7VDU).

For Secretary the nominees are Ken (K7PZX) (not present to accept/decline), and Jack (N7IHS).

For Treasurer the nominees are Chuck (N7STR), and Chuck (WA7EBH) (not present to accept/decline).

For Activity Manager the nominee is Ed (KJ7PE).

For Trustees the nominees are Mary (W7QGP), Mike (N7GVQ), and Doug (AB7IV).

New Business:

Today is Ray Leslie's 74th birthday. (A big round of applause from the membership, and they all sang Happy Birthday). Ray is the security chair for the Flea Market, he will contact his volunteers. The Constitution and Bylaws need to be revised. He will head up a committee to make these changes, but needs some help. Michael (KB7MX), Harry (W7JWJ), Nils (WB7TJK), Carolyn (WV7Q), Ralph (WX7T), and Chuck (N7STR) volunteered to serve.

Ray reported that he still two ARRL handbooks to be picked up. Ray is putting together another order, and needs two more pre-paid orders for handbooks to get the 10+ quantity price of \$25.35/each. See Ray today, so he can have the books available at next month's meeting.

The next Board meeting will be held Tuesday, February 27th, at 19:30 here at the Salvation Army Headquarters.

Chuck (N7STR) moved the meeting adjourn, seconded by Frank (K7VMG). Members voted to do so at 11:10 PM

The program was on Flea Market preparations.

Facility Committee

Chuck - N7STR

The Facilities Committee met with the Technical Committee prior to the February meeting to discuss the antenna concerns of the Salvation Army, with regard to our proposed emergency and storage facility. We came to the conclusion that to meet the aesthetic concerns of the Salvation Army, Omnidirectional antennas would be the best route. Several people at and after the general meeting suggested that we should be using directional antennas to achieve the desires of the Salvation Army during emergency conditions. The following is an excerpt taken from my letter of follow-up to the Salvation Army, which was presented in person February 22, 1996 along with a verbal explanation of the clubs position.

"Captain Halverson:

Per your request, the Technical Committee and Facility Committee met jointly to discuss the type of antennas that would be required for the emergency station and storage facility we are proposing. We would be utilizing a 2 meter 440 Isopole (omnidirectional) and an Omnidirectional HF Antenna, which we would mount to our station itself. Several members have suggested that because of you location (down in the valley) that a directional Multiband Antenna with rotor may be more realistic. I need your input on the feasibility of this.

It has been brought to my attention that one of your needs would be, to be able to communicate with your Eatonville Headquarters in case of an emergency. This may or may not be possible with an Omnidirectional Antenna on 2 meters. We may need to install a 2 meter Directional Beam Antenna instead, due to the terrain between your Renton location and Eatonville, to fulfill this requirement.

We would also like to have the option for various Wire Antenna if necessary, subject to your approval, so we could operate multiple HF Radios at the same time for long distance communications if necessary.

The Mike and Key Club wants to emphasize that we wish to maintain the aesthetic value and appearance of your building, and have no desire to create an eyesore to your neighborhood."

Upon the conclusion of our meeting, Captain Halverson concurred that there was no problem with our request.

The next meeting of the Facilities Committee will be March 16th prior to the General Meeting at 9:15 AM, all interested parties are encouraged to come.

Board Meeting Minutes 2/27/96

Ryan - N7TNI

Present were: President-Carolyn (WV7Q), Vice President - Debbie (KB7QMQ), Secretary - Ryan (N7TNI), Treasurer-Chuck (WA7EBH), Trustee #1 - Tom (N7VDU), Trustee #2-Dan (N7QHC), Trustee #3 - Al (KB7THX), Trustee #4-Chuck (N7STR), Trustee #5 - Frank (K7VMG) and Radio Officer Harry (W7JWJ). Visitors were Dawn Humphrey, Eleanor Leslie (KB7EBC), Frank (KA7QHG), Jack (KB7ZS), Mary (W7QGP), Nils (WB7TJK), Ray (WA7EKH), Rick (KC7CRS), and Vic (N7YPB).

The meeting was called to order by Al (KB7THX) at 19:30.

Officer Reports:

President: - Carolyn (WV7Q) reported she received correspondence from the WW2END project, they are about 50% of the way to being able to return the club's investment. Al (KB7THX) also received E-Mail from the WW2END group, they have received a great response and demand for souvenirs. In order to get the lowest costs on the items, they are waiting to order them so they can get a volume discount. Carolyn received the information from the ARRL to register our club for the next year. Carolyn showed the board a membership roster booklet that Bill (KL7BB) created. It looks great, perhaps the next time we put out a roster, we should to something like this.

Carolyn got a call from Eric (N7TQC), who had talked to Gerhard (DL8GBP), our member in Germany who was concerned because he had not received any RELAYs recently. Chuck (WA7EBH) verified that a package was mailed at the end of the year, to the correct address.

Carolyn attended a Radio Club of Tacoma function, they are looking for different ways to celebrate ham radio. The will once again be doing the WA7ASH event on Mount St. Helen's, Carolyn will have an article about this in the RELAY. They also are going to do an antenna party called 'Find the Antenna', to cover invisible antennas for those who live in areas where antennas are not appreciated. They also plan to have a Galloping Gertie party, where they plan to load up the Tacoma Narrows bridge and use it as an antenna.

Vice President: - Debbie (KB7QMQ) presented the applicants for membership. They were Roy McCluskey (KB0QZC), and Mark Sandler (KC7JHZ). After discussion, the board approved the candidates for a membership vote at the February meeting. Debbie distributed revised membership applications to the board for review and comments. The board suggested several details to be changed. Debbie will make these and start using the new applications at the next general meeting.

Treasurer: - Chuck (WA7EBH) gave the financial report to the board.

Secretary: - Ryan (N7TNI). Al (KB7THX) asked for a motion to approve the minutes of the last Board Meeting, as published in the RELAY. Chuck

(N7STR) moved they be approved, seconded by Tom (N7VDU). The board voted to approve the minutes. Carolyn (WV7Q) reported that she had received several pieces of correspondence. The first was a letter from Mary Lou Brown (NM7N), asking if she could attend our March meeting and make a report. Since the March meeting is elections and will probably be a busy, Carolyn will contact Mary Lou and invite her to the April meeting. The second was a letter from Mike Lamb (N7ML) thanking us for his founders club certificate. He related an amusing incident between himself and Pop Brown, Carolyn will write this up for the RELAY. Mike will be in Seattle periodically this spring on business, and is interested in doing a program at a future club meeting.

Activity Manager: - G. Ray (KB9HHK) was not present.

Radio Officer: - Harry (W7JWJ) reported the backup repeater is operating at Dan's (N7QHC) house. There were some intermod problems, these have been solved by the addition of some cavities, but this has de-sensed the receiver. Ken (K7YR) is trying to arrange to get access to the Squawk mountain repeater site, so our main repeater can be repaired. Harry reported that he and his son Gary (WA7BBJ) plan to visit a possible repeater site on Tiger mountain as soon as the snow melts a little more.

Chairman of the Board: - Al (KB7THX) had nothing to report.

Standing Committee Reports:

Public Service: - Dan (N7QHC) passed out draft copies of their Amateur Radio Emergency Pamphlet for the board's review and comments, and submitted a proposal to fund the funding of this project. Dan explained the project to the board. The board reviewed the booklet and made suggestions for some changes. Carolyn (WV7Q) moved that we approve the funding proposal, and make up to \$250.00 available to the Public Service Committee budget for this purpose, seconded by Chuck (N7STR). The board voted to approve. The board suggested an initial printing of 300 copies. Copies will be available at the Flea Market for a \$0.50 donation, the remaining copies will be made available at the membership meeting in March.

Education and Training: - Frank (K7VMG) says he had a meeting of one, and hopes to have a better turn out on Monday, March 4th at the Southcenter Denny's, at 19:30. Frank is prepared to do a 20 minute presentation prior to the next membership meeting, on a graphical comparison of AM, FM, and SSB transmissions.

Long Range Planning: - Chuck (N7STR) reported they worked long hours last night, tabulating the results from their survey. They will do a presentation during the April meeting on their results.

Facilities and Publicity: - Chuck (N7STR) reported on the joint meeting they had with the Technical committee, concerning the selection of antennas for the club station. Chuck wrote a letter to Captain

Halvorson of the Salvation Army, and will have a report in the RELAY on this topic. Ralph (WX7T) has expressed concern about how we would man the station in case of an emergency. The committee will meet next at 9:15 AM prior to the next general meeting.

RELAY: - Jack (N7IHS) was not present.

Field Day: - Chuck (N7STR) reported that he, Chuck (KB7OS), and Mike (N7GVQ) are creating a manual for all of the stations and different operations at Field Day, more details will follow as they are available

Flea Market: - Chuck (WA7EBH) reported the event will be March 9th. The final committee meeting will be held February 29th, 19:30 at the Salvation Army Headquarters. The first floor is all sold out, and most of the second floor. They will need lots of help putting on the event. Chuck said they have positions that can be worked by non-hams (wives perhaps), such as information spots.

Audit Committee: - Chuck (WA7EBH) reported that the Audit committee met February 2nd, went through the books, performed the audit and found everything to be in order.

Old Business:

Constitution and By Laws: - Ray (WA7EKH) is chair of this committee with six other members. Any and all changes must be submitted to the committee so that they can be taken under consideration.

Nils (WB7TJK) commented on the proposed Radio facility, and how it has been downgraded as time and events have passed. We started out with the idea of a facility to put people and radios into, in order to provide training, with antennas capable of providing long range communications in an emergency. Currently, we are looking at a storage building of 10 by 12 feet, no permanent power, no heaters allowed, and aesthetically pleasing antennas. Nils wanted to know if anyone has drawn up a seating plan to see how many people can be seated in the building. With no heaters, the humidity will destroy any equipment installed there. Nils suggested we seriously consider the issue of who will staff and maintain the facility, and if we should go ahead with this, taking into account the current restrictions.

New Business:

Tom (N7VDU) reported that he has a conflict each month with the scheduled board meetings, and wondered if anyone else had this problem. Since the board determines it's meeting schedule, it was decided to have the new board consider this topic, after the March elections.

Carolyn (WV7Q) wished to express her appreciation for Ryan (N7TNI) for the job he has done the last 2 1/2 years as secretary. Due to the By-Laws, he cannot be elected again to this position. There was a discussion about the pros and cons of term limits of officers.

Al (KB7THX) reported that at the last membership meeting, someone put a dollar in the 'Input Box'. There was also a suggestion that the club have a home page on the Internet. Al reported that we

already have one, it's under the WW2END page.

Technical Committee: - Chuck (N7STR) reported they will meet at 9:30 AM prior to the next general meeting. They are on the lookout for equipment for Field Day, and will be scouting at the Flea Market.

Good of the Order:

Ray (WA7EKH) asked about the K7LED repeaters, and how the call sign for the 6 Meter machine will be handled. This machine which is owned by Ken/K7YR will operate under his callsign in the future.

Nils (WB7TJK) asked about the \$200.00 available in the budget for donation the AMSAT Phase 3 project. This money is not allocated at this time, the board will have to make a recommendation. Chuck (WA7EBH) suggested the board act on this matter after the results from the Flea Market are in.

Mary (W7QGP) reported that the vanity callsign program is on hold again, there are quite a few petitions to be cleared up before the program can get underway. This might take up to six months.

A motion to adjourn was made by Chuck (WA7EBH), seconded by Chuck (N7STR). The board voted to do so.

Long Range Planning Committee

Chuck - N7STR

The long range planning committee is still in the process of tabulating results from our survey, and will have had another meeting March 8, prior to this newsletter. The committee is preparing a presentation of the results for the General Membership Meeting in April.

Apologies

Jack - N7IHS

I want to appologize to all of the members of the Mike and Key ARC for not getting the newsletter out on time this month. It was not the fault of any of the people submitting articles. It was my mistake. I forgot about March 2 being a Saturday. I have a meeting on the second Thursday of each month and it didn't dawn on me that there could be a second Thursday and a third Saturday in the same week. I recently missed two meetings because I completely forgot about them so I purchased some software that allows me to keep track of my appointments and allow me to develop a calendar for the RELAY. Well Thursday afternoon I was working with that software and putting in the Mike and Key meetings when I discovered that the next meeting was this Saturday. Talk about panic. So all of you will get this newsletter announcing the meeting after the meeting was held. I have had some distractions though, we have purchased a building lot, sold our house, and have the new plans nearly finished. All in the last month. Again I am very sorry and hope that it never happens again.

Memories of 25 Years Ago

Carolyn - WV7Q

I received a letter of appreciation for the Founders Club Certificate, from Mike Lamb, one of our founding members, Mike (N7ML), as many of you know is CEO and past president of AEA. He enclosed a wonderful story that I would like to share with all of you as we approach our 25th Anniversary Banquet and the awarding of the coveted Pop Brown Award.

"I have many found memories of the early days at Pop Brown's meeting location so many years ago when I was a struggling EE college student. Now that is well past the statute of limitations, let me endeavor to relate a funny story that concerned Pop Brown in the fall of 1964. I was on 40 Meter AM one Sunday afternoon and was talking with a fellow that knew Pop. He asked if I could run a phone patch to him and I gladly obliged, wanting to see how well my home-brew phone patch worked, I proceeded to call Pop and had the patch connected across the telephone line with an isolation transformer so his friend could hear him answer the phone. But alas, pop was not home, so I simply hung up and apologized to the friend. We signed and I went upstairs probably to work on homework (that is what I would tell my kids at any rate).

About an hour later my mother asked me if I was using the phone. When I answered 'no' she said that she could only get a ringing sound when she picked up the phone. I immediately realized what happened.....I had forgotten to turn off the phone patch and it did not have a blocking capacitor in series with the secondary of the matching transformer. I turned off the patch and it immediately cleared the line....'whew, I thought, sure glad Pop didn't answer it as it would really be embarrassing.'

A couple of weeks later I was over at Pop's visiting with him and his wife and the subject of his prized parakeets came up. He was introducing me to each of them and came to a couple that he said he had to give heart massages to a couple weeks earlier. Shocked, I asked, 'What happened to cause a heart attack in both birds at the same time?' He proceeded to tell me a story about having been out for a Sunday afternoon drive. When they returned home, the neighbor greeted them in the driveway with a story about how Pop's telephone started ringing about an hour earlier and had just quit before they arrived home. The neighbors had been looking inside to see all the parakeets in the house fluttering to and fro in total excitement over the ringing telephone. Feathers were flying all over the place and by the time Pop gained entry two of them were laying on the floor barely breathing.

Fortunately both birds were resuscitated, but only after a great deal of anguish on the part of Pop and Mrs. Brown. As Pop told his story my emotions went between concealed crying and concealed laughter. I probably let at least a grin show as Pop asked me if there was something wrong when he

finished his story. Not being one to conceal the truth, I confessed my guilt with the phone patch. He and Mrs. Brown were relieved to finally have the mystery solved and assured me that they bore no bad feelings toward me over the incident. That really showed Pop and Mrs. Brown's character, they were truly a dear couple!

Let me take this opportunity to express my belated sincere congratulations to all in the club on your happy occasion of celebrating your twenty-fifth anniversary. I would only wish that all of you will be around to celebrate you fiftieth! Kindest regards, Mike Lamb, N7ML.

F.D. Jobs a Plenty

Chuck - KB7OS

As I mentioned in last month's newsletter, the following are some of the jobs that need to be filled at our Field Day weekend outing. While we usually have some people who regularly volunteer to handle many of these positions, we would like to ask that everyone (especially new hams or new members of the club) who feels he or she would really like to try out the driver's seat, to please come forward and make yourself known by signing the rosters at the coming meetings. And the people who have done these many jobs in the past to lend support to the new participants so they can learn the joy of making Field Day happen.

- 1) Band chairpersons for phone stations on 75/80, 40, 20, 15, 10 (Novice/Tech CW-Phone), 6, and 2 meters.
- 2) Wagon Master for operating the Wagon Wheel group campsite and collecting camp fees.
- 3) Barracks Master to oversee the operation and fee collection for using the inside camping facility of the Wilson Barracks.
- 4) Chuck Wagon Director for all aspects for food procurement and preparation.
- 5) Generator Tech and crew to oversee the testing, maintenance and operation of the main power generator.
- 6) Transport driver to pickup and haul the generator trailer to Fort Flagler prior to the start of Field Day. May also haul the antenna trailer from the storage shed at the park to the operating site.
- 7) Tower Crew to assemble, erect, tear down, and disassemble the towers and antenna mountings. We usually depend on the capable hands of Chuck (WA7EBH) and Ken (K7YR) to lead this operation, but many willing hands are needed (especially at tear down time).
- 8) Public Relations Team to prepare signs and place them to invite guests (all visitors) to the operating site. You don't have to be an artist.
- 9) CW Beach Crew to participate in all aspects for setting up and operating down at the beach below the bluffs. We usually have Mike (WA7UVJ) as our Beach Master, but he really could use your hands on the towers and the keys. (And here you have the

freedom of all the bands available.)

10) First Aid Support of anyone who has some familiarity with administering aid or who has taken current training in First Aid/CPR. We are in hopes that since the capable hands of Jan (N7WJB) are not available that someone like Joyce (N7JPW) will volunteer to be available as needed.

So you see that there is plenty to do and lots to learn. We all know that the fastest way to learn is always by doing. Take a look at the Band Chairman booklets at the next meeting and see if you could be the "leader of the pack."

WA7ASH/80

Carolyn - WV7Q

May 18th the Radio Club of Tacoma will once again, operate a Mount St. Helen's Eruption (1980) Commemorative station at Castle Lake Overlook. Their stated purpose is "to demonstrate our Emergency Radio Team's ability to go to a rural site, set up antennas and go on the air in preparation for Field Day". Set up will be Friday May, 17th, operation Saturday May 18th, and take down Sunday May 19th. They are inviting Mike and Key members who would like to be team members, regardless of license type.

- Team 1: The advance Set Up Team - we have a

great need for radio transmission vehicles. (More brawn, less brains.)

- Team 2: We need Operators. Any team member will have the opportunity to work any station on the site. (More Brains, less brawn.)
- Team 3: We need a Safety Team to protect the Entrance and Parking Area. (Neither of each.)

Overall, they need Motor homes or Trailers for operating stations. Tents and other facsimile are not permitted. Besides, even in May, the site is high enough to offer 30 degree temperatures and winds of 20-40 miles per hour. Come dressed for the cold, and rollicking good time. The event coordinator is Brian Spindor, KA7KUZ, (360) 769-9297. If you have questions or wish to participate, please contact Brian, Ralph KA7FIG (206) 582-5841, Judy AJ7R (206) 927-7825, or Michael KB7ZDR (206) 535-5144.

Later this year, this club is planning an Antenna Lakeside gathering called "Find the Antennas." This will be a gathering of "invisible" antennas that can be used in areas where there is esthetic concerns or in apartment type dwellings. I.e., 28 gauge wire antennas). Also in the planning stages, is an event to commemorate "Galloping Gertie," the felling of the Narrows Bridge. They are currently working on strategies to "LOAD" the existing bridge for use as the antenna! Boy, do I want to see that! Both of these events will be this year, so watch for further info.

**The Mike and Key Amateur Radio Club
Annual Awards and 25th Anniversary Banquet**

Please fill out the reservation form and mail it along with the payment to:

*The Mike and Key ARC
c/o Charles Stroehrer
19415 SE 21st Street
Issaquah, WA. 98029*



Name _____

Call _____

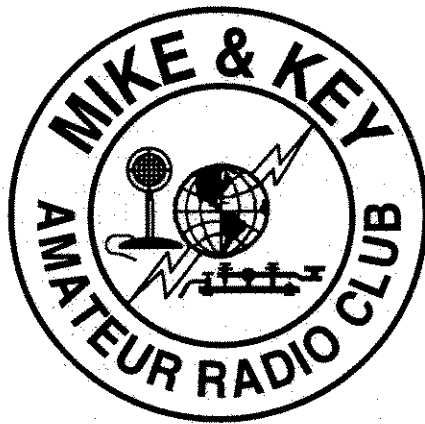
Phone Number () _____ - _____

Prime Rib Dinner Number: _____

Chicken Dinner Number: _____

Vegetarian Dinner Number: _____

Total Dinners _____ X \$20.00 = \$ _____



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 53.05 MHz, 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 Club and it's activities. Yearly dues are \$12.00 for individual memberships and \$18.00 for family memberships.

Volume 24, Number 3

March 1996

President Carolyn Pasquier - WV7Q (206) 862-1157	Treasurer Charles Stroehrer - WA7EBH (206) 392-5303	Trustee No. 1 Tom Patterson - N7VDU (206) 432-1500	Trustee No. 4 Chuck Benefiel - N7STR (206) 279-1517
Vice President Debra Hiraki - KB7QMQ (206) 242-8180	Activities G. Ray - KB9HHK (206) 313-4649	Trustee No. 2 Dan Humphrey - N7QHC (206) 243-0163	Trustee No. 5 Frank Henshaw - K7VMG (206) 931-8201
Secretary Ryan Martin - N7TNI (206) 631-5370	Radio Officer Harry Lewis - W7JWJ (206) 523-9117	Trustee No. 3 Al Hopwood - KB7THX (206) 747-5192 (COB)	RELAY Editor Jack Grimmett - N7IHS (206) 392-9510

Return To

Jack Grimmett
1525 Pine View Dr. NW
Issaquah, WA 98027

Next Board Meeting

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

First Class Mail

Next Club Meeting

Saturday, Mar. 16th 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

March Program

Elections

Deadline for April RELAY Submissions - April 1st!!!

Check Mailing Label for Dues Status