



K7LED RELAY



The K7LED RELAY is the official tabloid of the Mike and Key Amateur Radio Club. The mailing address is: P.O., Box 2121, Kirkland, WA. 98033. The Mike and Key Amateur Radio club is dedicated to the betterment of Amateur Radio. We meet the Third Saturday of every month at the Good Neighbors Center, 305 So 43rd, Renton - across from Valley Medical Center. The Club operates repeaters on 52.05-53.05, 146.22-146.82, 222.52-224.12 under the call of K7LED. The following nets meet on 146.82: Club Net Wednesdays at 7:30 PM, Public Service on Thursdays at 7:00 PM. Everyone is invited to participate.

VOLUME 19

MARCH 1991

NUMBER 3

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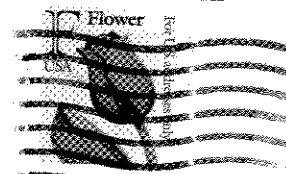
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FIRST CLASS MAIL

BOARD MEETING

On First Tuesday at 7:30 PM
Onmi Restaurant on So. 188th ST.

BREAKFAST

7:30 AM AT THE RIVERSIDE INN
14060 Interurban So., Tukwila

CLUB MEETING

Saturday March 16 at 10:00 AM
Good Neighbors Center
305 So. 43rd, Renton
Doors open at 9:30 for donuts
TALK-IN ON 146.82 RPTR

RELAY DEADLINE

THE BOARD MEETING!

K7WTG
HEDBERG, PETE
20904 NE 77th ST
REDMOND, WA. 98053

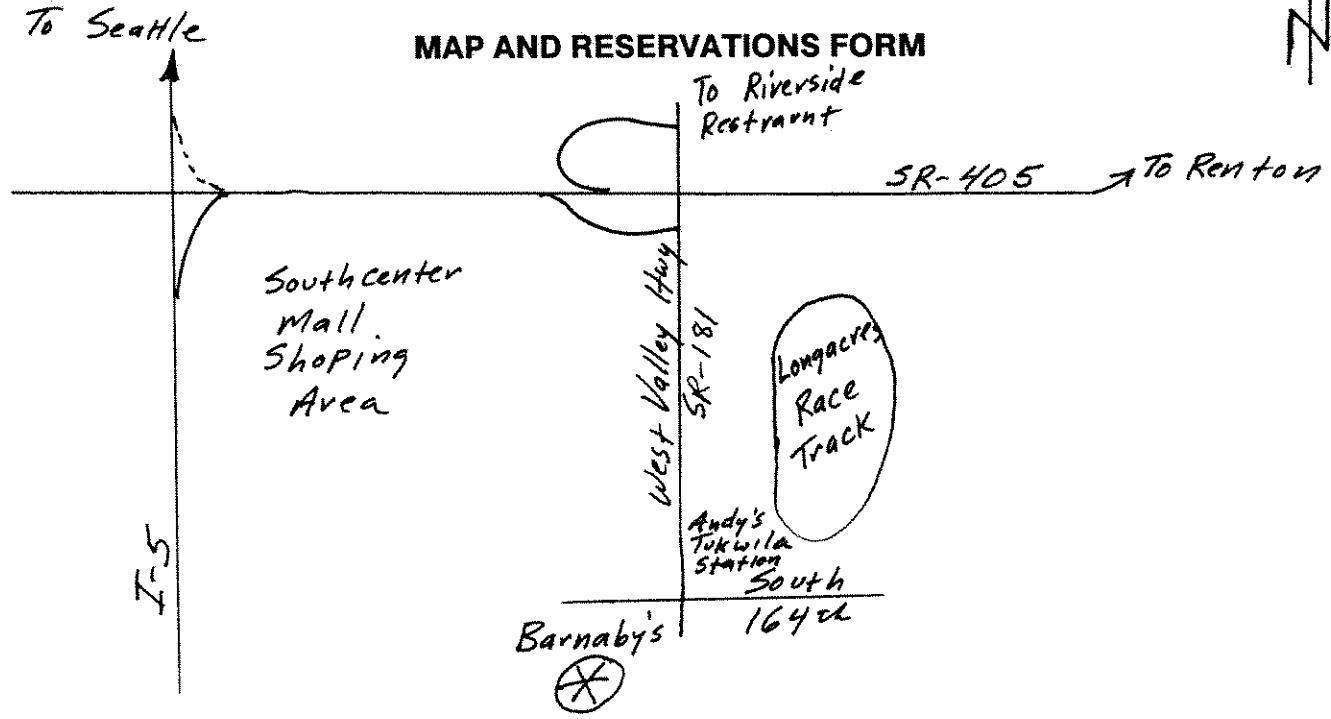
91/01
Last
Relay

ELECTIONS THIS MEETING

CHECK MAILING LABEL FOR DUES EXPIRATION DATE!

MIKE AND KEY ANNUAL AWARDS BANQUET

MAP AND RESERVATIONS FORM



BANQUET

The Annual Mike & Key Awards Banquet will be held April 6th at Barnaby's Restaurant in Tukwila.

At this event, the Mike & Key Club honors all its members and recognizes those special few who went above and beyond the call of duty. (Some may get recognized for acts they would just as soon forget). In addition, we will be presenting the first members of this club to exceed 20 years of service!

Barnaby's has a choice of five entrees, a 26 item salad bar, and full no host cocktail bar, all for only \$15, including tax and tip.

Dinner choices are: Prime Rib, Top Sirloin, Stuffed Flounder, Marinated Chicken Breast, Baked Salmon or Halibut (restaurant's choice).

Don't miss out on this years awards banquet, get your reservation in today to WA7UVJ Mike Dinkleman, 637 2nd Ave So. , Kent WA. 98032.

Name #1: _____ Dinner Choice _____

Name #2: _____ Dinner Choice _____

Name #3: _____ Dinner Choice _____

Name #4: _____ Dinner Choice _____

_____ dinners X \$15 = \$ _____ (enclosed) Phone No. _____

PRESIDENTS CORNER

March is a pretty important month for the Mike & Key Amateur Radio Club. The flea market (our most important fund raiser) and elections (our leaders) both occur at this time. By now, the flea market has come and gone (hopefully successful), now it is time to determine our leadership.

Probably the most important position in the Club is the Trustee. Trustee's hold office for two years and guide the overall direction and policy of the Club. In addition, they hold the clubs purse strings and form the budget committee. There are three trustee positions open this year.

All the officer positions are open for replacement; these include President, VP, Secretary, Treasurer, and Activity Manager. Officers take care of the daily operation of Club functions and are allowed a maximum of two, one year terms.

Frequently, elected positions are avoided like the plague. Unfortunately this happens in all organizations. While I will agree that holding office can be work, and is inherently scary; there are rewards in leading one of the largest, most active, and dynamic clubs in the Puget Sound area.

Nominations will be open before balloting takes place at the March Club meeting. You will find a listing of those already nominated elsewhere in this Relay. I hope to see you all at the meeting. uvj

GENERAL MEMBERSHIP MINUTES FEBRUARY, 1991

Meeting was called to order at 10:00 A.M. by Mike, WA7UVJ, President. Introductions followed

President, Mike, WA7UVJ: Presented three new applicants to membership - Sandy Dunkel, K7OZY; Ned Akerman, N7PWR; and Eugene Sodano, no call yet. All were voted in unanimously.

Program followed. Chuck, W7SRZ, introduced Chuck Zappala, who talked about the technical side of "More Than Radios". The video followed.

A brief break was taken, meeting resumed at 11:05 A.M.

Chuck, WA7EBH: Gave treasurer's report. As of February 1 there is \$1,806.00 in checking, \$5,219.00 in C.D./Savings.

Public Service, Wayne, K6DOW: Winter Special Olympics 1st weekend of March. Contact Chuck, WA7EBH. Summer Special Olympics at Fort Lewis 1st weekend of June. Contact Wayne, K6DOW.

Jack, KB7ZS: Antenna for old Stand-by repeater ordered.

Jack, KB7ZS moved to accept budget as printed. Motion seconded followed by a brief discussion. Budget was accepted by membership as printed in RELAY.

Hal, N7NW: Discussed needs of the Flea Market. In order to get in early, you must be signed in to work.

Ted, N0YC: Took nominations from the floor for next year's officers. We have President, Vice President, Secretary, Treasurer, Activity Manager and 3 Trustees. Nominations are as follows:

President: WA7UVJ, N7IHS;

Vice President: KG7KC;

Secretary: KG7KC, K7OZY; **Treasurer:** KB7GEW;

Activities Manager: none;

Trustees: K6DOW, W7KCX, KE7WB, K7OZY, N7AVO, N7PWR.

Nominations from the floor will be accepted at the March meeting prior to elections.

Frank, KA7QHF: Handled raffle with the following winners: KB7LZA, \$25.00; W7FKI, \$15.00; K7MRH, \$10.00.

Mike, WA7UVJ: All who ordered coats and/or T-shirts - Mike needs the money before order will be placed. If this does not happen - money will be returned.

Meeting adjourned at 12:00 P.M.

Respectfully submitted,
Darlene Pauza, Secretary

DUES ARE \$12.00 PER YEAR INDIVIDUAL OR
\$18.00 FAMILY, PLEASE SEND TO TREASURER,
KB7GEW.

CLUB MEETING ON MARCH 16th.

BOARD MEETING MINUTES MARCH, 1991

Meeting called to order by Mike, KA7CSE, Chairman of the Board.

Next Board meeting April 2 at 7:30 P.M. at the Omni Restaurant.

Board members present: Mike, WA7UVJ; Frank, KA7QHG; Darlene, KG7KC; Ralph, WX7T; Claire, KB7GEW; Brian, KF7QF; Mike, KA7CSE; Julian, KA7MCB; Mary, W7QGP. Ted, N0YC, excused.
Visitors: Nils, WB7TJK; Mike, WB7AYU; Dean, N7NKO, Sheila; Gene, WA7TAI; Ray, WA7EKH; Joyce, N7JPW; Chuck, WA7EBH; Jack, KB7ZS.

Mary, W7QGP: FCC info. (see related articles in newsletter).

Brian, KF7QF: Repeater concerns.

Ralph, WX7T: Dan Humphry, N7QHC, presented to Board for membership. Approved.

Darlene, KG7KC: Special Service Club Renewal.

Mike, WA7UVJ: Flea Market this weekend. Elections. Banquet to be held April 6 at Barnaby's in Tukwila. Reservations are slow.

Frank, KA7QHG: Flea Market. Will get pallets there ahead of time.

Ray, WA7EKH: Concerns over election of officers. Has sold 221 tables and 11 booths. More calls are coming in daily.

Joyce, N7JPW: Vern, W7ZLW, is no longer able to print the newsletter. Checking on the alternatives. Need articles. If any change of address or not getting the RELAY, let Joyce know.

Chuck, WA7EBH: Bellevue Eastside 911 support group would like to use the K7LED repeater as a back-up. The Board had no objection. Chuck will check with Ken, K7YR, Radio Officer.

Claire, KB7GEW: C.D. pulled as of this month as back-up for expenses related to Flea Market. Balance in checking \$7,852.36. It was suggested that the C.D. be replaced with 2 smaller ones.

Meeting adjourned at 8:20 P.M.

Respectfully submitted,
Darlene Pauza, Secretary

MORE THAN RADIOS

For any of you that might be interested in obtaining a copy of the video "More Than Radios", you need to send a blank VHS, SVHS, High 8 or 8MM to Z-Man Productions, 8051 N.E. 143rd Street, Bothell, WA 98011. Be sure to include adequate postage.

BANQUET

The Annual Mike & Key Awards Banquet will be held April 6 at Barnaby's Restaurant in Tukwila. I am disappointed that many of you have failed to send in reservations yet!

At this event, the Mike & Key Club honors all its members and recognizes those special few. In addition, we will be presenting the first members of this club to exceed 20 years of service!

Barnaby's has a choice of five entrees, and a 26 item salad bar all for only \$15, including tax and tip. A full no host cocktail bar is also available.

Attitude adjustment starts at 6:00 PM and dinner will be at 7:00. This year, the Masters of Ceremonies will be Chuck Stroehner, WA7EBH, and a short entertainment program is planned. Please find a map with directions to the restaurant elsewhere in the Relay.

Don't miss out on this years awards banquet, get your reservation form in today to WA7UVJ. Form is located on back of front page.

DESERT STORM

When the gavel sounded to call the January meeting of ARRL Board of Directors to order, it was First Vice President, George Wilson, and not President Larry Price who occupied the Chair. The reason for this departure from the norm was soon apparent: Larry wanted to make a motion, something he cannot do while acting as chairman of the meeting.

When the gavel sounded, the war in the Gulf was but 38 hours old. Dinner the previous evening had been punctuated by disheartening news of the first Scud attack on Israel. Like virtually all Americans, the Board wanted the coalition forces in the Gulf, especially our own soldiers, sailors, airmen and marines, to know

they had our full support. The debates of the previous week over whether to go to war were history; the democratic process had worked, the decision had been made, and that was that.

The resolution Larry proposed, and the Board unanimously adopted, pretty much speaks for itself. (Minute 3, page 58, March QST.) In accordance with the resolution, and similar to arrangements made during the Second World War, any League member who was overseas for military service in connection with Desert Shield/Storm between August 2, 1990 and the conclusion of the operations (whenever that turns out to be) will be credited with continuous membership if they renew within 30 days of their return to stateside.

At the time, no one dared hope that the cessation of hostilities, with the mission accomplished, could be realized so soon. We share the sorrow of those who have suffered and lost loved ones in Kuwait, Israel, Saudi Arabia, and, indeed, in Iraq, most of whose people are simply the innocent victims of their country's misguided leadership. At the same time, and all the while wishing it hadn't been necessary, the job done on our behalf was done well. Our congratulations go especially to the many League members involved in the effort, either directly or in a supporting role. David Sumner, K1ZZ.

FIELD DAY

It is time to start planning for Field Day. Jack, KB7ZS and Frank, KA7QHG are co-chairman this year and are looking for band-chairmans. (you can't have 20-CW, I got it. haha!)

I know that some of the band chair's are planning pretty serious efforts this year. The annual trophy competition with the Radio Club of Tacoma will be 20 meters, CW but I've heard the 20-phone guys are going all out too!

We haven't had anybody come forward to fill the shoes of Tom, KA7SEH (SK) in the Novice/Tech station. This station is setup and run entirely by Novices and Technicians. It's a good job for the first timer.

For newcomers, the Mike and Key holds it's FD operations at Fort Flagler near Port Townsend. It's a lot of fun and Field Day is the essence of amateur radio. Mark your calendars, don't miss it, June 21-23. If you would like to help organize, see Jack or Frank. uvj

FIELD DAY PROGRAM

If you have an IBM compatible computer, I have debugged my Field Day Logger and would like members to play (beta test) around with it to catch any weirdness. I've added some features and eliminated the Run-Time error.

This program will LOG up to 1750 Qso's, can key a CW transmitter thru the serial port, and DUPES lightning fast. I've done as much as I can to make it's operation user friendly and there is plenty of on-line help. I had planned on using K8CC's NA Logger this Field Day but I think this will work better for the occasional contester.

If you bring a 360K disk to the Club meeting, I'll be happy to give you a copy. uvj

PREMATURE ALARM OVER ELECTROMAGNETIC FIELDS

by C. Andrew L. Bassett
Professor Emeritus of Orthopedic Surgery
Columbia University

The past year was marked by a flurry of news articles and commentaries on possible health risks -- ranging from reproductive disorders to cancer -- associated with the weak, low-frequency electromagnetic fields that emanate from power lines, video display terminals, and most electrically powered household items. Unmentioned in these reports, however, was the extensive use of electromagnetic fields in medical treatments. Ironically, by ignoring the therapeutic uses of such fields, the press overlooked the major source of information on bioeffects and safety records.

The significant body of scientific data amassed during the past 15 years from cellular, animal, and human therapeutic studies indicates that the term "weak, low-frequency electromagnetic fields" is too broad to be useful. Asking whether such fields are good or bad for your health makes no more sense than asking whether chemicals are good or bad for your health. We all recognize that some chemicals (such as vitamins, hormones, and drugs) may be vital to health, and others (such as carbon monoxide and arsenic) can be lethal. What's more, the dosage can be all-important -- even an essential vitamin taken in very small amounts may produce no effects at all, and in very large doses be toxic. Similarly, certain portions or combinations of frequencies along the nonionizing electromagnetic spectrum produce beneficial effects, whereas other portions or combinations of frequencies may be deleterious.

Although the underlying physical principles governing the interactions between living systems and these fields have yet to be elucidated fully, many details of what actually happens at the cellular and subcellular levels have been identified. In certain therapeutic application, more is known about why pulsed magnetic fields are beneficial than the action of aspirin.

One particularly significant fact is that with electromagnetic fields, less can be more, and vice versa. Traditionally, biomedical science embraces a "dose-response" model for bioactive agents such as drugs: A small amount of the agent produces no response, and too much yields an adverse or plateaued response, with a range of desired action for doses in between the extremes. Defining a dose-response pattern for weak electromagnetic fields is far more complex. Either too little or too much may produce no response whatsoever, with an all-or-nothing effect in between. In addition, it is not sufficient to specify simply how much (that is, amplitude of induced voltage or current) without identifying factors such as frequency, direction, timing of exposure, and a host of other variables.

Take, for example, the power line issue. The assumption that the "culprit" is a 60 hertz sine wave magnetic field of a given amplitude is overly simplistic from the beginning. It takes no note of other frequencies and amplitudes introduced by switching transients, power surges, harmonic distortions, and the unique energy patterns induced in transmission lines by solar flare activity.

Furthermore, field distortion, cancellation, augmentation, and altered phasing can result when multiple lines are parallel or angled in clusters. It may even be that the purported ailments linked to living near power lines are chemical in origin; epidemiological studies have yet to examine the role of herbicides used along power line rights-of-way, polychlorinated biphenyls (PCBs), or the by products of high-tension arcing.

Without more detailed information on how electromagnetic fields affect humans, it is fruitless to try to set safety standards. In fact, ill-founded standards, which could engender false sense of security and impede inquiry, might be worse than no standards at all. Until policymakers, scientists, engineers, physicians, and journalists become more conversant with specificity of action, they, and the public, will remain awash in a sea of confusion and concern. Furthermore, the vast potential for expanding therapeutic benefits and limiting possible hazards will continue to be squandered.

THE HEALING FIELDS: Most progress in the therapeutic use of electromagnetic fields has hinged on efforts to mimic nature. Living systems evolved on this planet in a literal sea of natural static and time-varying magnetic fields. When organisms are isolated by magnetic shielding from this weak field environment, their metabolism changes in measurable ways. In fact, the Earth's magnetic field plays a significant role in determining how cells handle calcium ions, a major regulator of cell function. Weak magnetic and electric phenomena are essential in every chemical reaction.

In addition, physical activity produces electromagnetic fields. With every heartbeat or neural response, biomagnetic fields are created. With every step we take our bones are deformed by mechanical and hydrodynamic forces, which distort the balance of electric charge in the tissues and thereby generate minute voltages.

Research into these human-created fields has made it possible to design pulsed electromagnetic fields (PEMFs) that induce electric currents in bone similar to those caused naturally by deforming forces. During the past 15 years, more than 200,000 patients with bone fractures that have not healed normally have been treated with these PEMFs to induce healing; many of these individuals were saved from amputation after years of disability and numerous surgical failures. These results have been achieved by treating patients at home, with a significant saving in costs over surgical approaches. Recently, selected PEMF patterns have been used successfully to treat young adults with avascular necrosis, a potentially disabling prearthritic hip condition. Moreover, laboratory research data indicate that PEMFs may benefit patients with osteoporosis, severed nerves, chronically unhealed diabetic ulcers, and coronary artery disease. Pilot studies suggest that this form of energy deserves thorough investigation as a means for controlling certain types of cancer. (This is not to suggest that PEMFs are a panacea, only that like drugs, various patterns can produce a wide range of effects).

Throughout the sizable, long-term clinical experience with PEMFs, there has been no evidence of hazardous side-effects when they are used properly. Even patients who received daily treatment for 10 years showed no harmful effects. Animal studies found no evidence of adverse effects on conception, reproduction, development, or longevity. Standard Food and Drug Administration toxicologic and teratologic tissue culture investigations have also revealed no risks.

WHAT ABOUT HAZARDS? But if some PEMFs can have beneficial effects, cannot others be harmful: A recent report by Congress' Office of Technology Assessment concluded that little is known about such risk beyond the principle that weak fields can interact with biological processes. Until these phenomena are better understood, the report prudently suggested that exposure be minimized or avoided whenever practical.

But just how can we minimize or avoid exposure to electromagnetic fields are ubiquitous, produced by everything from elevators to vacuum cleaners. Certain types of shielding have been developed, but such protection is impractical and very expensive. Even burying power lines will not shield the fields unless the iron content of the surrounding soil is high. Design changes in electrically powered devices can modify field patterns, but we do not know how much to change them or even in what direction. We cannot establish standards until we know what we want to achieve.

Before we start regulating, we need better information on which to base policy. Current research is scattered and underfunded. The National Institutes of Health devote less than \$1 million a year to all aspects of the topic. The Environmental Protection Agency ended most of its research in 1989. The Electric Power Research Institute, an industry group, is exploring the effects of power lines, and IBM is examining video display terminals, but looking at these sources in isolation will not provide the information we need. The Departments of Defense and Energy have investigated the subject, but neither has a broadly based research program.

Many of these efforts have attempted to answer specific questions without having adequate controls for a myriad of interactive physical and biological factors. Research must begin by defining in as much detail as possible the breadth of biological responses that result from various electromagnetic fields, taking into account all the variables that influence these responses. The individuals capable of this task can be found throughout government, academia, and industry, but no single agency has the depth and diversity necessary to direct this research. Therefore, Congress should create a National Bioelectromagnetics Commission with broad interdisciplinary capabilities in physics, biochemistry, biology, engineering, and medicine, to explore the issue thoroughly.

The commission's first duty would be to define what constitutes a valid experiment. Most of what has been

done is flawed because it fails to take into account all relevant variables. Over two or three years, the commission could collect the detailed response data at the cellular and subcellular levels necessary to identify new therapeutic applications and potential hazards. With this information, it could begin productive exploration of medical uses and, if necessary, the development of product standards or environmental regulations.

A comprehensive program would cost no more than \$100 million a year, an amount already being saved for society by those orthopedic surgeons who use PEMFs instead of surgery to treat certain bone fractures. The potential payoff in clarifying and controlling risks and developing low-cost medical techniques would more than justify the investment. In the process, it will become clear that a revolutionary new method for communicating with cells is at hand. Precise physical control of cellular function and behavior will open unseen horizons for managing human ills and allaying unwarranted concern.

FOUND

A Mike & Key windbreaker was found left at one of the RadioSport activities last summer.

This coat has several sewn on patches including a large M&K logo. Since these (the large patch) haven't been around for a long time, the owner has got to be an old timer!

Please see me if your missing a coat. uvj

FEES IN OUR FUTURE, AGAIN?

The proposed FCC budget for fiscal 1992 includes a proposal for a "Revised Fee Collection Program" to generate an additional \$65-71 million during FY 1992. "The total projected revenue will be derived from new annual user fees designed to recover non-application processing operational costs incurred by the Commission," the proposal reads.

"These costs would be associated with the Commission's Policy and Rule Making, Enforcement, Public Service, and International activities," the proposal reads.

"The Commission proposes to leave intact its current application processing fee collection, although it may be desirable to adjust individual fees associated with this system in future years," the proposal says.

Amateurs were exempted from application processing fees when such fees were enacted by Congress in late 1989 as a part of budget reconciliation.

The Commission would implement the new annual fees beginning October 1, 1991.

For the Amateur Service, the "user fee" would be #3 per year for each licensee, billed on the basis of \$30 for a 10-year license. Licensees of marine, public safety, GMRS and similar services would pay \$10 per year (\$50 for a five-year license).

As this item is written, on March 1, the fees described are in the FCC's requested budget for fiscal 1992, just forwarded by the Administration to Congress for its decision. It appears that the FCC fee proposal does not stay clear of the objections raised by the ARRL Board of Directors at its 2nd meeting of 1989, the last time the issue was before the Congress.

At this point, ARRL members residing in the states whose Senators are listed below, and in the Districts whose Representatives are listed below, may wish to express opposition to including amateurs in the user-fee proposal. A sample letter might read:

Dear Senator Mark Hatfield:

I understand that the subcommittee on which you serve is studying the Administration proposal for FCC user fees in the fiscal 1992 budget. The issue of charges for amateur licensing was decided in principle in the Budget Reconciliation Act of 1989, wherein no fees were levied against the Public Safety and Amateur Services. Nothing has changed since 1989; these services, because of their disaster communications activities for the entire country, should continue to be exempt.

The letter may conclude with a brief anecdote reflecting the writer's own experiences. Members able to help should, if possible, send copies to Perry Williams, ARRL Washington Area Coordinator, at ARRL HQ. David Sumner, K1ZZ [Ed note: Mark Hatfield was only one listed from Northwest.]

ARE YOU GUILTY?

Let's don't forget to ID on the repeaters at least every 10 minutes. Lately Hams have been talking for long periods of time without IDing or allowing time for "breaks". It is a FCC regulation. N7JPW

F.C.C. MAKES SURPRISE VISIT TO KB7ZS

Jack says, "I didn't do anything."

LOCAL HAMS ASSIST FCC

During the past week or so the local office of the FCC requested the assistance of "Gib" Gibson, W7JIE and other hams in making an area study of power levels required to make and maintain contact with other amateurs around the globe. The study was initiated from Washington and was not directed at any problems locally. In addition to JIE, Bill Bingham, Jack Burrell and Chuck Stroehrer participated.

In my case, the one I am familiar with, we started out at max power of 1000W and a contact with Yugoslavia and after a short QSO explaining what we were doing, the power was reduced in 50% increments while maintaining contact. After reaching 25W and still carrying on an intelligible contact we signed off and went looking for another contact. After reaching 3 land we repeated the operation with the same results. 25W being sufficient to meet our needs.

It appears the object of the exercise is to again try to establish levels that meet the Amateur requirement to use only the power necessary to maintain communication. It would be interesting to see the nationwide results and possibly Gib can let us know what comes from all of this. At any rate it was enjoyable to talk to their reps and to hear of some of the work the local branch has to undertake. As to the use of power, I guess this proves to the rest of us what the QRP gurus have known all along, When the band is open almost nothing will get the job done. All the best and 73, Jack, KB7ZS

MIKE & KEY JACKETS

I have the required minimum number of people signed up to place a jacket order. The majority of the signups have paid up but I still need a few more to pay their \$30 and verify color and size.

PLEASE bring the required funds to this months Club meeting so the coats can be ordered !!!!!!!

This is likely to be the last order for a long time, so if you want to order a coat and haven't done so, see me at the meeting also.

Because I couldn't get the people who signed up for T-shirts to come through with all the money, I have canceled that project and have been refunding payments. Maybe we can try again someday. uvj

HAMS DO IT, AGAIN

For those of you who did not volunteer for the Winter Special Olympics, you missed a great experience. Working with these special people is absolutely wonderful. Even standing out in the blowing snow, freezing certain body parts, and getting wet, Chuck and I had a heart-warming experience. We joined several other Hams from the Seattle area to handle the communications chaired by Colleen Noyes, N7LEX. (Wayne, K6DOW, and Chuck, WA7EBH, did a great deal, too).

On Saturday the big storm hit in the late afternoon...a blizzard, if you will. The roads were slick as reported by two Hams who left the mountain as soon as the slopes closed. However, there were accidents on the highway which had traffic backed up. Fortunately, for the Athletes and all, a call came over the NET regarding the snafu and we were able to notify the buses of athletes and other skiers to wait. We then notified the Mission Ridge Ski area who then closed the parking lot exit and there we were. Yes, we were warm and had coffee, etc., but the saga had only begun.

The next thing we hear is a bus and fire engine have bumped each other and are in the ditch....the tow truck sent to rescue the fire truck didn't chain up, so he went into the ditch and had to winch himself out via a tree. Then he winched the fire truck and the school bus out of the ditch. This allowed the sand truck to start backing up the mountain from the sand pile, sanding as he went, so the 7-car fender-bender could be untangled to in turn let the vehicles behind them venture on down. Only after the entire highway was sanded did they let the rest of us go.

In the meantime, Colleen, Chuck, Joe, et al, made several phone calls and managed to get the restaurant serving the athletes and coaches, and the Kiwanis at the high-school serving the volunteers, to save the food. And save it they did. We, also, made sure there were no medication and food needs of the athletes. The last task was to make arrangements for the athlete buses to be the first out of the parking lot.

Fortunately, all were safe and we made it down the mountain about

8 P.M.....a long day (we arrived at 6:30 A.M. to begin the radio set up) and an experience we will talk about for awhile. We all had fun and lots of laughs. This Ham is hooked and plans to participate, again. Mike and Key Members helping were WA7EBH, N7JPW, N7NJZ, and K6DOW's equipment. N7JPW

LONG RANGE PLANNING

It appears that the time to assess the long term goals of this Club is approaching. For an organization such as the Mike & Key to remain active and alive, we need to continually strive for objectives meaningful to the membership.

Long term planning is a tool useful for determining these goals. While the results of such a gathering are not binding, it's a chance to broach new ideas, affirm old ones, and speculate on the future of this Club. For Club leaders, it forms a basis on which to operate. (It's also a lot of fun.)

If you are interested in attending such a meeting, please contact me so a convenient date and location can be decided. uvj

SURVIVOR, 1991 FLEA MARKET

Hope you got a chance to get your SURVIVOR T-SHIRT at the flea market. It's a must for those who worked hard and long at Puyallup.

The proceeds from the sale of these shirts goes into the US/USSR hospitality fund so it's a good cause. In addition, it lets everybody know you helped make Washington's largest Ham gathering, a success.

Just in case you missed out, I will take orders at the Club meeting. Don't miss out on this collectors item. (hihi) uvj

US/USSR EXCHANGE




The planning for the May visit by 5 members of the Zilan DX Club of the USSR continues.

I want to thank the Mike & Key Club for its generous donation. We are planning an open house pizza bash that I hope all of you will want to attend as well as any Hams from around the area. Watch the Relay for details.

Also, keep the aluminum cans coming. The last batch I took was over 100 pounds again. Fantastic! uvj

MIKE AND KEY AMATEUR RADIO CLUB

March 10 - April 20, 1991

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
Mar 10	Mar 11	Mar 12	Mar 13 7:30pm MIKE AND KEY NET ON 146.82 RPTR.	Mar 14 7:00pm PUBLIC SERVICE NET ON 146.82 RPTR.	Mar 15	Mar 16 7:30am Breakfast at Riverside 10:00am CLUB MEETING AT UGN IN RENTON 1:00pm VE EXAMS at Good Neighbors Center
Mar 17 <i>St. Patrick's</i> 	Mar 18	Mar 19	Mar 20 <i>Spring begins</i> 7:30pm MIKE AND KEY NET ON 146.82 RPTR.	Mar 21 7:00pm PUBLIC SERVICE NET ON 146.82 RPTR. 7:30pm PARS MEETING Puget Power Bldg. Bellevue	Mar 22	Mar 23
Mar 24 <i>Palm Sunday</i>	Mar 25	Mar 26	Mar 27 7:30pm MIKE AND KEY NET ON 146.82 RPTR.	Mar 28 7:00pm PUBLIC SERVICE NET ON 146.82 RPTR.	Mar 29 <i>Good Friday</i>	Mar 30 <i>Passover</i>
Mar 31 <i>Easter</i> 	Apr 1 <i>April Fools Day</i>	Apr 2 **RELAY DEADLINE FOR NEXT ISSUE** 7:30pm Board Meeting OMNI RESTRAUNT	Apr 3 7:30pm MIKE AND KEY NET ON 146.82 RPTR.	Apr 4 7:00pm PUBLIC SERVICE NET ON 146.82 RPTR. 7:30pm ISSAQUAH RADIO CLUB MEETING	Apr 5	Apr 6 8:00am CAMANO ISLAND HAM BREAKFAST 6:00pm 21st ANUAL AWARDS BANQUET
Apr 7 <i>Daylight Savings</i> 	Apr 8	Apr 9	Apr 10 7:30pm MIKE AND KEY NET ON 146.82 RPTR.	Apr 11 7:00pm PUBLIC SERVICE NET ON 146.82 RPTR.	Apr 12	Apr 13
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Contact Relay Editor for additions

3/7/1991