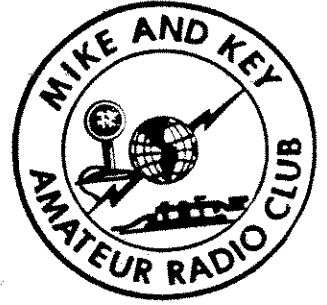




K7LED RELAY



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 Tukwila Community Center, 4101 So. 131st St., Tukwila. 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 18

OCTOBER 1990

NUMBER 10

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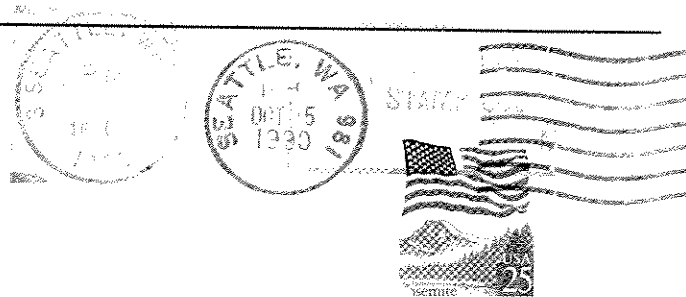
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BOARD MEETING

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

FIRST CLASS MAIL

BREAKFAST

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

CLUB MEETING

On Third Saturday at 10:00 AM
Tukwila Community Center
4101 So. 131st St., Seattle
Doors open at 9:30 for donuts
TALK-IN ON 146.82 RPTR

91/01
K7WTG
HEDBERG, PETE
20904 NE 77th ST
REDMOND, WA. 98053

RELAY DEADLINE

BY THE BOARD MEETING!

CHECK MAILING LABEL FOR DUES EXPIRATION DATE!

PRESIDENTS CORNER

Last month I was confident that by this month, we would have installed new membership restrictions. The purpose of this was to help bring us membership that was going to be ACTIVE.

Well democracy reared it's ugly (hihi) head I get the feeling that, even though we didn't hold a formal vote, you want to continue trying the system in place already. While I'm NOT convinced it will help our quorum situation, I'm willing to stand by and give it a further chance.

At the same time, I am going to recommend to the BOARD we start looking over the applications for membership, with a little more scrutiny. We should also institute an idea by Claire, KB7GEW, we update our application forms to conform with present bylaws and describe what we expect from our membership. Also, in a positive vein, we should start rewarding our active members instead of dwelling negatively on those not able or willing to participate.

Yes, I do listen, even if I don't always agree.

In another matter concerning the Board, Mike, KA7CSE will be helping Julian, KA7MCB, our activity manager, with program scheduling. One of our more acute problems has been an anemic program schedule. I believe Mike has the next 6 months penciled in with some very informative lineups.

Well enough for now. See you at the meeting, Oct 20th. -uvj

ALUMINUM CANS

I would like to ask a little favor of all you Mike & Key members out there.

Many of you know that I am heading up a return visit by Soviets next May. Because of the great expense, I am fund raising by any means possible (legal means, that is).

Even though they don't bring much in the way of money, I am collecting aluminum cans.

Many of you already save them as part of your home recycling effort. If you would be willing to bring them to each club meeting (bagged, please), I would be happy to take them off your hands. Every buck counts in this effort, so I appreciate your help and efforts. Thanks - WA7UVJ

SUPPORT YOUR LOCAL HAM STORE

I would like to take this opportunity to thank our local Ham store, Amateur Radio Supply, for their help over the past year.

Sharon and Bob have done a remarkable job of supporting amateur activities in the local community. They were especially helpful during the visit of Soviet Hams to the area last May, and, again, when items were needed for a trip back to the USSR in July.

When I made a request for an ICOM IC-22 manual, Sharon was the first to volunteer a copy. In addition, they have bent over backwards to include upcoming events in their advertisement mailings.

Sometimes we tend to forget exceptional effort. Me, I just want to say thanks, it is appreciated. -UVJ

RADIO DETECTION FINDER

In the July issue of 73 Magazine on page 9, there is an article about "Foxhunting" by Paul Bohrer, W9DUU.

The PARS Club has decided they were going to have a "Bunny Hunt" in October and needed some way to find the "Bunny". They decided that this was just the thing they needed. One of the members was going to make the PC boards, but due to circumstances and a little hint from another PARS member, he gave up that idea and asked me to make the boards.

So, I made 26 boards total. the PARS members only required 20 boards, so there are 5 left over (I used one). In the event there are any M&K members who are interested in Direction Finding, especially on 2 meters, I have the boards. I will bring them to the October meeting. Ray, WA7EKH.

MIKE AND KEY RELAY OCTOBER 1990

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M&K MEETING PROGRAMS

Responsibility for meeting programs and scheduling now falls on my shoulders. I would like to thank KA7MCB, Julian for all he has done towards this difficult task in the past. We both agree that my taking over the duties will allow Julian to devote more time to other activity planning for the near future.

First off, I believe in scheduling for 3 or more months ahead of time so the membership will look forward to attending meetings, knowing way ahead of time what the program content will be. I am going to try to plan programs from the full spectrum of Amateur Radio activities and interests. If you have additional ideas and know of good quality programs out there, please let me know.

So here is how we will start;

OCTOBER - WA7UVJ will present a slide show about our three week visit to the Soviet Union. We visited five cities and a lot of Amateur stations as well as operating in a major DX contest with the call US4P.

NOVEMBER - All of who have been even occasionally active on the HF bands probably have acquired a small stack of JA qsl cards. RIGHT ??? Well W7YF, Jack Wichels is going to tell us all about JA AWARDS that you probably didn't know that you were eligible for.

DECEMBER - K7PF, Phil Ferrell will be giving us a very interesting presentation on computer controlled repeaters and radio footprinting.

JANUARY - Possible presentation of 800 Mhz systems

FEBRUARY - Will be a Flea Market preparation meeting

MARCH - Possible VHF/UHF antenna building seminar

APRIL - **M & K ELECTIONS**

Well this is a start. I hope we all will enjoy the changes.

73, Mike.. KA7CSE

OCTOBER PROGRAM

During our Soviet trip in July, Mike, KA7CSE, took about 1200 slides. In October, we will present a FEW of those slides in a synopsis of our trip this past July.

We hope you will come down and help us relive our once-in-a-life trip.

If you know any groups that could use a slide show program, we are certainly willing to take this presentation on the road. We have plenty of slides for non-ham shows, too. -UVJ

FLEA MARKET

On September 26th, the flea market planning for 1991 was begun. Held at Mike's, KA7CSE, we decided prices and discussed strategy. While the flea market is still 5 months away, early planning is important. I thank all who participated. -uvj

WELCOME ABOARD

The following are new members and can be added to your existing roster:

Nils A. Hallstrom, WB7TJK, 17047 - 35th Ave. S., Seattle, WA 98188.

Alex Sellman, N7LTH, 14753 - 26th N.E., Seattle, WA 98155-7404.

Mike Sellman, N7ORL, 10533 N.E. 189th, Bothell, WA 98011.

Orien B. Jeans, Jr., KB7GQK, 36115 - 14th Ave. S.W., Federal Way, WA 98023.

Welcome to the M&K ARC. Nice to have you aboard.

CLUB MEETING ON OCTOBER 20th AT 10:00 AM. DOORS OPEN AT 9:30 AM.

2-METER SECRET FREQUENCIES!!

Gosh! I thought everyone knew that there were more frequencies available on you 2-meter handheld than just 144-148MHZ. The local favorite repeater and a few simplex freqs are not the whole capacity of you hand-held. If you have one of the later ones born after maybe 1986 or 87, you may have some secret frequencies available. Here are some of them that I've recorded over the past few years. There's lots more. Tune 'em in! Most all of them are narrowbanded FM.

First off is F.C.C. They use 172.800 input and 167.050 output with simplex on either one. Usually on 167.050. (They have many more freqs in use but outside handheld frequency range).

F.A.A. 169.250 to 169.375 all simplex usually. The crash people of FAA use 165.750.

TV and news people usually found on 161.640 to 161.760. This includes the helicopter and aircraft as well as remotes.

Police, Fire Departments, Ambulances, Hospitals, etc., are found between 153.740 to 156.030. Wash. State Patrol highway frequency in Seattle is 155.580 North of I-90 and 154.68 South of I-90 both simplex. 155.475 is nationwide police emergency channel which is used by all when they are crossing into another jurisdiction.

Military can be found anywhere between 138-144 and 148-150MHZ. I've not idea who they are or where they're operating from, but they are there.

Coast Guard and Marine frequencies are from 156.275 to 157.425. 156.800 is the USCG emergency and calling channel 16. In this area, Channel 16, (156.800), channel 26, 157.300 (ship freq.) with 161.900 (shore station) are used for telephone conversations. Also check channel 28, 157.400 (ship), and 162.00 (shore station) for more phone conversations. Channel 06, 156.30 MHZ, is used ship-to-ship for safety communications only.

Naturally N.O.A.A. weather is found on 162.550 24 hours a day for the latest weather information.

Give some of these a listen--very enjoyable diversion to the ole repeater gang. 73, de Gib/W7JIE

20TH ANNIVERSARY DINNER

Believe it or not, November is the 20th continuous year of operation for this club, in other words, our 20th birthday or anniversary..

I am trying to gauge interest for a special night out.

My idea (it's not originally mine, but K7ND's) is to have a nice buffet dinner during a Friday night in November. Since the end of the month is holiday time, how about the 2nd or 9th?

For entertainment, we could arrange a slide show of KA7CSE's and my trip to the USSR, with a slant to the non-ham view for the spouses (or significant others) you drag along. I PROMISE to keep the slide show to a reasonable length.

The H.D. Hotspurs in Kent has a room that will hold 90 people and a buffet for \$15 a head. The advantage of a buffet is ease of dinning and elimination of check hassles and such. H.D. Hotspurs specializes in BBQ food. We would need about 50 people to sign up.

If you are interested, I HAVE to know by club meeting day. I haven't secured the room yet because I am not sure of your willingness to participate. I think it would still be open by October 20th. Lets do up the club anniversary! -uvj

FOR SALE

Televideo Terminal - Model 925. Includes manual and cable to TNC. \$20.00. Warren K7MRH, 854-9028.

"KAZAN!"
or
"HOW TO SURVIVE TEN HOSPITALITIES,
WITHOUT REALLY TRYING"

Following our acclimation stop in Moscow, we headed out on the train for Kazan, our principal hosts in the Soviet Union. Trains are the primary means of long distance travel in the USSR and are booked solidly through the summer months. Somehow, our hosts managed to procure several 4 person berths on an otherwise full train.

Each berth contained 4 bunks and a small table. Add all our luggage too and we had little room in which to spend the next 11 hours, the time it takes to reach Kazan, 400 miles to the East. After the initial excitement of getting started things were looking a little bleak for entertainment. Hey I forgot! I brought UNO! Now UNO is not a game I play much back in the USA and I threw it in the suitcase more as an afterthought to amuse children. But take an 11 hour trip, add some firewater, sausage and UNO; and you got the makings for a good party. A couple hours later, we were feeling no pain. (I later discovered that getting blasted, then sleeping it off, is a pretty common way of passing the time when traveling by train in the USSR.) Of course we didn't party the whole way, but the ice was broken and when I think back on it, that train trip really brought us and our hosts together. Everybody started to relax.

Finally, we reached Kazan, an industrial city of 1 million plus people, and former Capitol of the Tartar Republic. After a hasty meeting on the platform (close to midnight) we headed off to the homes of our hosts. My host was Boris, UA4PBX/KB7LEG and his lovely wife Raya. Needless to say, a quick shower and bed brought a happy ending to a long of a long trip, I was HOME.

Home? Yes, when I look back upon it, Kazan was "home" for almost a week. Boris and Raya couldn't have done more to make me feel more welcome. If I had done nothing else, visiting only them would have made the trip successful. But, we all did a lot more than that. Highlights of our stay in Kazan included seeing the sights, operating from the

UA4PWW during the IARU RadioSport contest, a beach BBQ, shopping, dinner with a group of visiting Germans, a boat trip on the Volga River, and induction into the Zilan DX Club. (Please QSL via UA4PWA, thank you)

However, there were two "special" highlights to my visit. One was named Alsu, age 11, and the other was Lilya, age 8. Alsu was the daughter of Oleg, UA4PA. Now Oleg isn't a big DXer or top gun in Amateur Radio, but he did produce a remarkable child in Alsu. From our arrival that first night to our departure the next week, she was our constant companion and one hell of an interpreter. Because, she spoke excellent English and was full of questions about America, some of my happiest moments were spent, just talking, to Alsu. Lilya was the daughter of Boris and Raya and she couldn't speak a word of English. In fact, she wasn't even allowed to come home from the Pioneer camp she was enrolled in, not even for the weekend. So, we went and saw Lilya and visited her. It was only an hour, but I'll remember that hour for many years to come. Why were these two innocent children so special? I don't know. Maybe it's because they reminded me that children are the same all over the world. Maybe it's because they represent a hope for the future of not only the USSR, but our own country too. Special, I don't know why, but gosh, I miss 'em.

Enough emotion, back to the party! Our final day in Kazan was hosts day. Each of our hosts and quite a few others wanted to give us a special goodbye. This required running from apartment to apartment eating (usually a two or three course meal), something to drink (usually vodka), and an exchange of gifts. We did 10 of these hospitalities in the course of eight hours and frankly, I don't remember much after the fourth one. I only know I did my duty and have survived to tell the tale. That in its self, is quite an accomplishment, but now we must leave Kazan.

Next Month

DOWN THE VOLGA AND HOME

MIKE AND KEY RELAY OCTOBER 1990

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BOARD MEETING AT THE OMNI
RESTAURANT ON NOVEMBER 6th AT 7:30
PM. COME AND BE HEARD!

MINUTES MIKE & KEY GENERAL MEETING SEPTEMBER, 1990

Meeting was called to order at 10:00 AM by Mike, WA7UVJ, President.

Introductions followed with 55 in attendance with 8 visitors.

Chuck - WA7EBH, gave Treasurer's report. \$7,553.00 in bank. \$5,090.00 in C.D.

Darlene - N7NCC, Secretary read minutes of August meeting. Motion was made and carried to accept August minutes, as read.

Ralph - WX7T, Vice President, presented the following applicants for membership: WB7TJK, Nils A Hallstrom; N7LTH, Alex Sellman; N7ORL, Mike Sellman; KB7GQK, Orien B. Jeans, Jr. All were voted in unanimously..

Julian - KA7MCB, Activities Manager, Picnic was fun, thanked all for participating.

Mike - KA7CSE, Chairman of Board, Flea Market meeting on September 26, 1990 at 7:30 PM, at QTH of Mike, KA7CSE. Will be going to Radio Club of Tacoma on October 10.

Chuck - WA7EBH, Public Service, Auburn Parade, 4 amateurs in attendance.

Wayne - K6DOW, a number of Public Service events coming up. Contact Wayne or listen in on the Public Service Net on Thursday at 7:00 on 146.82.

Mike - WA7UVJ, President, Mentioned article in Valley News of September 3 concerning Mike & Key.

Frank - KA7QGP, Trustee, All books delivered to Redmond, Bellevue, Renton and Kent Public Libraries..

Jack - KB7ZS, going to Fort Flagler October 6 to reserve barracks.

Mary - W7QGP, Trustee, Novice classes: October 2 at North Seattle, October 4 at Highline Community College sponsored by Mike & Key.

Break followed - meeting resumed at 10:30 with program.

Brian - KB7QF, spoke to us on the use of a vertical dipole antenna.

Mary - W7QGP, Goodwill Games, an overview. Logs need to be turned in to Danny, K7SS and the ARRL, an overview.

Break followed - meeting resumed at 10:50.

Mike - WA7UVJ, President, New Business: Field Day - Chairman needed. Flea Market - meeting on September 26, 1990 at Mike, KA7CSE.

Going to Radio Club of Tacoma, October 10, Next year band, 20CW.

Net Control Operator needed.

Program next month - Slide show from trip to Soviet Union.

A discussion then followed on Membership requirements.

Julian - KA7MCB, Activities Manager, followed with raffle. Winners were N7NKO - \$25.00, WB0SMK - \$15.00, KB7ZS - \$10.00.

Meeting adjourned at 11:53 Am.

Respectfully submitted,
Darlene, N7NCC, Secretary

ACTIVITIES MANAGER

Well, the old saying goes, "WHEN IT RAINS IT POURS" is a true statement. And that is exactly what it did at this years picnic. We had to brave the wet and cold that was all about us. When everyone else around us had warm weather and blue skies about them. We suffered the outrageous fortune of keeping the picnic torch going but this was a great task in itself.

MIKE AND KEY RELAY OCTOBER 1990

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RAIN, RAIN, GO AWAY, COME AGAIN
ANOTHER DAY, and it did.

Yes, this is a true story, but I forgot to tell you the best of all...we had a great time at this years picnic. Plenty of good food, games and fellowship with each other.

This years CHAMPS IN HORSESHOES are WZ7H (Roger) and N7DLV (Eric). MIKE AND MIKE (uvj,cse) talked and showed pictures of their fantastic trip to Russia.

There was a very good turnout of members, families and friends. I would like to personally thank each and everyone of you that participated. Also, those of you that wanted to be there but could not. Let me not forget thank all that helped to make this day of friendship and fellowship.

BLESS WE SHALL do it again together.
KA7MCB

"THANK-YOU" FROM THE LIBRARIES

The following letters from three of the libraries on the east side were received recently. A complete set of Amateur Radio books were delivered to each of 4 libraries, Kent, Renton, Bellevue and Redmond.

REDMOND

I wanted to thank your group, again for the very generous donation of an entire box of new books on Amateur radio. I know they will be a much valued addition to the Redmond Library and the King County Library System.

There will be a book plate in the front of each book giving credit to your organization. I know the patrons who use the material would want to express their thanks, also.

I know that members of your group provide unstinting service to communities during disasters and various emergencies. Thank you for also considering libraries. We appreciate your thoughtfulness.

Sincerely,
Jan G. Freeman
Head Librarian

BELLEVUE

A very kind gentleman came to us a few days ago with a box of wonderful gift books from your organization. We do get frequent requests from patrons interested in ham radio and these are a welcome addition to the collection. We know those patrons will find these new books very useful and informative.

Please convey our appreciation to the members of your organization for thinking of the Bellevue Library as a recipient of their generous gift.

Sincerely,
Lynn Lancaster
Head Librarian

RENTON

Thank you for the donation of the many up-to-date books on amateur radio. The 1990 ARRL Handbook will be a replacement for our old edition.

The six titles by Walker A. Tompkins will be catalogued juvenile fiction which is what most other libraries have done according to the Western Library Network (WLN) bibliographic database.

Thank you for picking the Renton Public Library as a depository for this excellent collection. We look forward to working with you in the future.

Respectfully yours,
Clark Petersen, Director

HOME SWEET HOME

Over the past two years many people have expressed concern and dismay over the present meeting site. It is dark, cavernous, hard to find, and frequently dirty. We also pay \$50 a month for the "privilege" of it's use.

Our only real reason for moving there was our expanding membership which threatened to get us thrown out of our previous home, the United Good Neighbor Center in Renton. I think we made a mistake.

Analyzing the club meeting attendance over the past two years, we have yet to average over the maximum allowed at the UGN. Yes, on occasion, we have exceeded the 65 person limit, but by only small amounts. In addition, the lighter atmosphere, better seating, and easier access are all things that made Mike & Key meetings worthwhile, while we were at the UGN. The Tukwila Community Center offers nothing but size.

In November, the 20th anniversary of this club, we will go HOME to the UGN. If we start exceeding the building limit on an excessive level, action will have to be taken, but let's cross that bridge when we reach it. I think most members will concur with this action. -uvj

MINUTES OCTOBER BOARD MEETING

The meeting was called to order by Chairman of the Board, Mike, KA7CSE. Others in attendance: Claire, KB7GEW; Mike, WA7UVJ; Julian, KA7MCB; Ralph, WX7T; Frank, KA7QHG; Darlene, N7NCC; Mary, W7QGP. Absent: Ted, N7OYC; Brian, KF7QF. Visitors: Jack, KB7ZS; Mike, WB7AYU; Joyce, N7JPW.

Correction: Last month Claire, KB7GEW, was present.

Next Board meeting is Nov. 6, 1990, at Omni Restaurant. Next Flea Market meeting Oct. 24, 1990, at KA7CSE.

Treasurer's Report: Running ahead on raffle - \$250.00 in and \$220.00 out. Claire asks that if you can pay dues early, it'll help with Flea Market initial output.

Jack Burrell is going to Fort Flagler on October 6 to reserve the barracks for Field Day.

Moved, seconded and passed to recommend moving monthly meeting to UGN in November.

UVJ and CSE to go to Radio Club of Tacoma on Oct. 10.

Secretary: Darlene reports that Casey, W6PKW, recently had by-pass surgery, is home now and making good progress. Darlene has upgraded to Advance. Received 3 thank you letters from libraries for the books. These will be printed in RELAY.

Mary Lewis: Nice write-up in CQ about RadioSport contest. WARC agenda is set up. Asked that the briefs from the ARRL Letter be printed in the RELAY.

Frank: All books have been delivered.

Julian: No news. Mike, CSE, doing programs. October program on USSR slides.

Frank: Attendance has leveled off. Four applicants for membership as follows: AD7G, Steve Roley, Extra Class, from Mercer Island; KF7FJ, Jim Ellis, Advanced, from Seattle; N7NYX, Richard R. Larson, Sr., Advanced, Seattle; WA7OEU, Bob Abernathy, Extra Class, Renton. Moved, seconded and passed to recommend for membership at General meeting.

Christmas Party: Need chairperson. There is A budget of \$200.00 for hall rental, \$75.00 for prizes, \$75.00 for food. This is a potluck with the club furnishing the meat.

A proposal for membership was given to board and will appear in this edition of RELAY.

DE ARRL LETTER
VOL 9, NO. 19
September 21, 1990

FCC ADOPTS WARC NOTICE

The Federal Communications Commission on Sept. 19 adopted its second Notice of Inquiry in preparation for the 1992 World Administrative Radio Conference. The text of the 150-page NOI (in General Docket 80-554) has not yet been released, but it is said to contain specific recommended U.S. proposals for WARC-92. Responding to the Second NOI will be the best opportunity for the general public to express its views on WARC-92 matters, but the time for comments will be very short.

ARRL continues to participate in the development of the U.S. WARC-92 position through the FCC Industry Advisory Committee and CCIR. The Industry Advisory Committee met Sept. 14 in Washington to hear status reports from its five Working Groups. Key WARC-92 issues include expansion of high-frequency broadcasting, low-earth-orbit mobile satellites, satellite and terrestrial digital sound broadcasting, future land mobile systems, and high-definition television by satellite.

BRIEFS

** Space Shuttle STS-35 bearing the SAREX experimental Amateur Radio package was postponed again Sept. 18 and it now appears the flight will not be rescheduled earlier than November, as other waiting Shuttle flights have priority over the scientific mission of STS-35.

** Ham Radio Outlet has purchased the Amateur Radio division of CW Electronics of Denver, and a new HRO store is scheduled to open there Oct. 1. The new store will be located at 8400 E. Iliff Ave., #9, Denver, CO 80231. Some of the current CW Electronics staff will join the new HRO store. As of last week a store manager had not yet been named. With the opening of the Denver outlet, HRO will have 10 stores in six states.

** Postal rates probably will rise around February, 1991, sources say. While first class letter rates would rise from 25 to 30 cents/oz., the impact on second class mail publications such as QST would be much greater - 31 percent. At current membership levels mailing costs for QST could increase some \$88,000 per year. By using the "printer's newsstand/postal pool" and mailing from several points around the country the League could save about one-quarter of this amount (QST has some 10,000 non-U.S. subscribers/members, including Canada). International rates can be--and often are--changed with as little as one month's notice.

** Newly available is the 1991 CQ Equipment Buyer's Guide. 176 pages of equipment

descriptions and advertisements on gear ranging from towers and antennas to computers and software. The Guide includes a page of last-minute new product releases. Also available is the CQ Antenna Buyer's Guide. Cost for each is \$4.95 postpaid from CQ Bookstore, Greenville, NH 03048.

** FCC has issued a public notice regarding unlicensed devices transmitting in the 900 MHz range, particularly video transmission systems. These systems ordinarily use a wireless receiver and transmitter for remoting video devices such as VCRs, video cameras, and games, as well as television pictures and audio. Such devices all under "additional unlicensed use" of frequencies and as such have no protection from interference from Amateurs or any other licensed service.

Companies which have received FCC grants of equipment authorization for their video transmission systems include: Gemini Industries, Recoton Corp., Star Tech Company, Video Technology Engineering, and Wiso Electronics. Grants of equipment authorization issued by the FCC appear monthly in a public notice entitled Certification/Notification Actions. Customers experiencing RFI to such devices should contact the manufacturer.

** Prepublication orders are being accepted for the book "Don C. Wallace, W6AM", a biography of this famous ham and radio pioneer. Written by Jan D. Perkins, N6AW, the book is slated for publication around January, and will run some 350 pages, according to Bill Wallace, W6TCG (Don Wallace's son). Your check for \$19.95 (plus \$2 shipping) will be acknowledged but not cashed until the book is ready for shipment, according to Bill Wallace. Send orders to Wallace & Wallace, 11823 Slauson Ave., Suite 38, Santa Fe, CA 90670.

** The ARRL Volunteer Examiner Coordinator staff is processing about one Morse code waiver upgrade package per day for disabled applicants.

VE statistics for June and July (the most recent months available) include 8435 exam elements administered in June (4075 by ARRL VEC), and 7617 in July (3098 ARRL). 2640

applicants were served by ARRL VEC in June, 1853 in July.

** ARRL's East Coast Educational Workshop hosted 55 people in Gaithersburg, MD on Sept. 8, many of them newly licensed or unlicensed teachers interested in introducing Amateur Radio to their classes. The League was represented by Educational Activities Coordinator Rosalie White, WA1STO.

**Attendance?, Participation?
Membership?, What-ever.**

What do you call it when you are trying to get Mike & Key members to attend the various meetings that keep our Club going? Of the approximately 150 members we are lucky to get 50 to a regular meeting. With programs, committee reports etc., there is very little time to take part in the decisions that effect the M&K.

At the Sept. board meeting the few outsiders, not trustees or officers, consisted of members that have been doing just this for the past ten years. I saw nothing of those who complain of what is going on with the club. I saw nothing of those who are unhappy with programs. And I saw nothing of those who might be willing to offer some solutions along with there complaints. It matters not that you think our input makes no difference as important decisions truly are made and will affect operations for a good deal of time.

At our first Fleamarket meeting, there was the same old crowd, trying to reinvent the wheel. Fortunately one of our members, Jim Hamlin, a new face to the Flea Market committee thought it worth his time, showed up, and was able to assist in making things happen. Where were you?

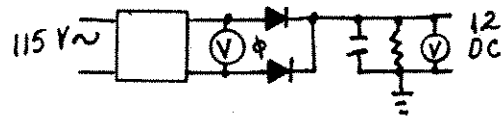
Personally, if you want the Board and an unofficial (but interested) Fleamarket committee to decide your club's actions without your input I guess that's up to you. I intend to continue to help(?), badger, or whatever it takes to try and persuade the governing body to listen to what I think is right, or to what I think should be done. YOU

CAN DO THE SAME BY ATTENDING THESE IMPORTANT MEETINGS.

Thanks and 73, Jack, KB7ZS
P.S. New Phone # 454-3617

QUIZ???.

Here is a "Quiz-Quist" from an old (1955) QST. The solution requires a little knowledge of basic electrical theory, still relevant in today's world of computers and microchips. See if you can come up with an answer.



We have 115v ac input to the black box. The ac and dc voltages across the output of the black box, as indicated by voltmeter V, are both zero. However, the power supply output indicated by voltmeter V is 12 volts. What is in the box? (diagram, please!) Bob K6PQJ

DE THE MORNING REPORT
Valley Daily News
Sept. 3, 1990

Ever have a yearning to stretch beyond the Valley and talk to friends in Russia, Japan or maybe "down under" in Australia? That's the question posed by Frank Krieger and other "hams" in the Mike and Key Amateur Radio Club.

Club members hope to interest more of their neighbors in the fun of amateur radio. And to help get the communication on the beam, the club has donated a complete set of instructional study guides - Morse code tapes and reference books - to the Kent Library and main branch of the Renton Library. The references are designed to help interested persons obtain their amateur radio licenses and get in on the fun.

There are several modes of communication, Krieger says. The most popular is by voice - just chatting on the air about radio gear, weather, family, jobs - called "rag chewing" by the radio crowd.

There's also Morse code communication and a computer-generated transmission that converts messages to words on a computer screen. That's "digital transmission", says the local radio buff.

There are more exotic forms: earth-moon-earth signals bounced off the moon to foreign countries, or signals sent to one of several ham-radio satellites orbiting the earth, collectively called OSCAR (orbiting satellites carrying amateur radio).

Many hams join in public service efforts, helping with crowd control, medical emergencies or rescue coordination. More than a few hams have been called on to communicate during major disasters like earthquakes, tornadoes, hurricanes or floods.

The Mike and Key Club is 30 years old and meets on the third Saturday of the month at 9:30 AM in the Tukwila Community Center, 4101 S. 131st. Krieger issues an invitation to join the gang at breakfast 7:30 a.m. to 9:30 a.m. at the Riverside Inn, then run over to the meeting. For information, phone Krieger at 243-9232 or Mike, 854-4031.

SOLUTION TO "QUIZ-QUIST"

Our natural instinct is to substitute a step down transformer with center tapped secondary for the box:



This gives us a conventional full wave rectifier. The only problem is that V will indicate a non-zero ac voltage across the secondary. The simplest solution is to replace the box with a step down transformer with two matched secondary windings:



The dots mean that the corresponding sine waves at the dotted points are in phase. Since the secondary windings are matched, V must indicate zero ac volts. Since the diodes only conduct on positive half cycles, we have a half wave rectifier.

Incidentally, the original QST version depicted rectifier tubes instead of diodes. Bob, K6PQJ

CLUB MEMBERSHIP

At the last couple of meetings there has been a lot of discussion regarding types of club membership and how best to meet quorum requirements. To me the real question becomes what do you see as the purpose of the club. If you want to put restrictions on the membership requirements, then the club gives the appearance of being a closed or exclusive club.

With the number of new hams out there I feel that the club should be a place for helping to educate these new hams in the different facets of amateur radio. And I cannot see how we can do this if restrictions are placed on membership.

A club I helped start back in 1972 now has a membership of 300+ and covers the area of Northern California and part of Nevada. Needless to say a lot of the members cannot make the meetings (the meetings, by constitution, are required to be held in the San Francisco-San Jose area). What I am going to propose is a slightly modified version of what that club did.

I propose that the club adopt two types of membership. The first is an Associate membership. The dues for this are X dollars per year. The benefits are the same as a General membership except that it is non-voting and therefore does not count for a quorum. The second type of membership is a General membership. The benefits are the same as current membership. The dues are the same X dollars per year plus attendance at Y number of club meetings and/or club functions in the last Z months. X, Y and Z are to be determined by the board.

If you do not make the attendance requirements, then the membership chairperson (we do have one don't we?) will automatically move you to Associate membership. If you find that you can attend club meetings and functions and you want to be able to vote, then when you meet the requirement of Y number of meetings/functions in the last 12 months you tell the membership chairperson so he can verify and move you to a General membership. This makes signing of the attendance roster important and one will have to be available at all club functions also.

K6DOW

1990

October 14 - November 24

1990

OCTOBER AND NOVEMBER EVENTS

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
Oct 14	Oct 15	Oct 16	Oct 17 7:30pm MIKE AND KEY NET ON 146.82 RPTR.	Oct 18 7:00pm PUBLIC SERVICE NET ON 146.82 RPTR. 7:30pm PARS RADIO CLUB	Oct 19	Oct 20 7:30am Breakfast at Riverside 10:00am CLUB MEETING in Tukwila 1:00pm VE EXAMS at Good Neighbors Center
Oct 21	Oct 22	Oct 23	Oct 24 7:30pm MIKE AND KEY NET ON 146.82 RPTR. 7:30pm FLEA MARKET MEETING AT KA7CSE's	Oct 25 7:00pm PUBLIC SERVICE NET ON 146.82 RPTR.	Oct 26	Oct 27 9:00am TACOMA FLEA MARKET
Oct 28 Daylight Savings-- set back 1 hour	Oct 29	Oct 30	Oct 31 7:30pm MIKE AND KEY NET ON 146.82 RPTR. Halloween	Nov 1 7:00pm PUBLIC SERVICE NET ON 146.82 RPTR. 7:30pm ISSAQUAH RADIO CLUB MEETING	Nov 2	Nov 3 8:00am CAMANO ISLAND HAM BREAKFAST
Nov 4	Nov 5	Nov 6 7:30pm Board Meeting OMNI RESTAUNT **RELAY DEADLINE FOR NEXT ISSUE** Election Day	Nov 7 7:30pm MIKE AND KEY NET ON 146.82 RPTR.	Nov 8 7:00pm PUBLIC SERVICE NET ON 146.82 RPTR.	Nov 9	Nov 10
Nov 11 Veterans Day	Nov 12	Nov 13	Nov 14 7:30pm MIKE AND KEY NET ON 146.82 RPTR.	Nov 15 7:00pm PUBLIC SERVICE NET ON 146.82 RPTR. 7:30pm PARS RADIO CLUB	Nov 16	Nov 17 7:30am Breakfast at Riverside 10:00am CLUB MEETING in Tukwila 1:00pm VE EXAMS at Good Neighbors Center
Nov 18	Nov 19	Nov 20	Nov 21 7:30pm MIKE AND KEY NET ON 146.82 RPTR.	Nov 22 7:00pm PUBLIC SERVICE NET ON 146.82 RPTR. Thanksgiving	Nov 23	Nov 24

Contact Editor for additions

10/8/1990