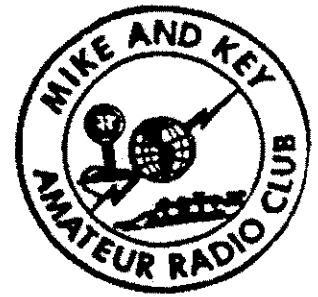




# K7LED RELAY



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

OCTOBER 1991

NUMBER 10

### PRESIDENT

Mike Dinkleman WA7UVJ  
637 2<sup>nd</sup> Ave. So.  
Kent, WA. 98032  
854-4031

### TREASURER

Claire Mitchell KB7GEW  
PO Box 2121  
Kirkland, WA. 98083

### TRUSTEE NO. 1

Ralph Schumacher WX7T  
4032 East Mercer Way  
Mercer Island, WA. 98040  
232-8053

### TRUSTEE NO. 4

Brian Wood KF7QF  
8706 206<sup>th</sup> St. SW  
Snohomish, WA. 98290  
481-2361

### VICE PRESIDENT

Jim Christiansen K7ND  
P.O. Box 147  
Fox Island, WA. 98333  
549-4062

### ACTIVITIES

Steve Roley AD7G  
3034 61<sup>st</sup> St. SE.  
Mercer Island, WA. 98040  
323-4989

### TRUSTEE NO. 2

Frank Krieger KA7QHG  
3410 So. 166<sup>th</sup> St.  
Seattle, WA. 98188  
243-9232

### TRUSTEE NO. 5

Julian Williams KA7MCB  
7839 So. 114<sup>th</sup> St.  
Seattle, WA. 98178  
772-5729

### SECRETARY

Mike Cross WB7AYU  
5803 SW Hanford  
Seattle, WA. 98116  
2688

### RADIO OFFICER

Ken Rau K7YR  
5430 Lake Alice Rd. SE.  
Fall City, WA. 98024  
222-7711

### TRUSTEE NO. 3

Wayne Moddison K6DOW  
16646 SE 134<sup>th</sup> St.  
Renton, WA. 98059  
271-5314

### EDITOR

Joyce Stroehrer N7JPW  
19415 SE 21<sup>st</sup> St.  
Issaquah, WA. 98027  
392-5303

JOYCE STROEHER  
19415 SE 21<sup>st</sup> ST.  
ISSAQUAH, WA. 98027



### 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 October 19 at 10:00 AM  
Good Neighbors Center  
305 So. 43rd, Renton  
Doors open at 9:30 for donuts  
TALK-IN ON 146.82 RPTR

K7WTG 92701  
HEDBERG, PETE  
20904 NE 77th ST  
REDMOND, WA. 98053

### RELAY DEADLINE

BY THE BOARD MEETING!

**TACOMA FLEA MARKET THIS SATURDAY**

**CHECK MAILING LABEL FOR DUES EXPIRATION DATE!**

## PRESIDENTS CORNER

Awwhh heck! Lets make it easy this month.....

1) Welcome back Claire, KB7GEW! Our Treasurer has returned from the hinterlands and is ready to Rock N Roll again. Best wishes on her new marriage too.

2) Also, a welcome back to Mike, WB7AYU, who stuck his foot in front of the "Railroad" express and was promptly elected Secretary to fill out the remainder of Darlene's term. (It's alright Mike, you were at all the meetings anyway.) Seriously, we appreciate the help.

3) We received the Field Day trophy, (now residing at my home). The RTC wants to continue the challenge so lets give it another try? This time though, the challenge band is their choice.

4) I received many positive comments on the quality of September's program. If you would like more of the same, PLEASE pass on the names of speakers you know or ideas you might have.

## THE THURSDAY NIGHT DOT & DASH BASH!

Hey Gang! If you are one of those Ops that has been talking about getting back into C.W....Now's the time! Every Thursday nite at 8 P.M. on some available clear frequency between 28.340-28.335, listen for our group. We usually get together on SSB and then go to C.W. But it's OK to check in with C.W. if you wish. Our net format is pretty laid-back and we usually give each station a number when they check in. When we get 5-6 or more stations, we go back to the top of the list and give you a chance to tell the group what's new with you, your rig or anything you want to talk about...nothing fancy and at your speed!

When you are finished, just say "back to net" and we will move on to the next one.

Sure would like to have you join our group.

C U on the net. Frank, KA7QHG

## OCTOBER PROGRAM

I know the Radio Club of Tacoma Flea Market is the same day as the Club meeting this month. However, if you show up, the intention is to have a video Packet Primer for this months program.

I say intention, because delivery of the video hasn't been guarantied, but I'm hopeful. Either way, if flea markets aren't your bag, come on down and we'll make it worth your while someway. -WA7UVJ

(P.S. Yes there will be a VE session as usual.)

## CHRISTMAS PARTY

Yup, the Christmas Party is on this year and planning has already started. Only thing, it'll be a little different this year. Actually, it'll be a LOT different this year.

Normally, the M&K Christmas Party is a potluck dinner affair dumped on somebody hapless enough to volunteer. If 30 people show up, well, success is declared and home we all go. (It wasn't always this way, I've heard about some pretty 'wild' M&K parties. I've just never been to any.)

Well, Jim, K7ND, and myself have decided that we will have fun this year and if you want to come, great! We will be holding a M&K RECEPTION (no dinner) at the Embassy Suites in Tukwila on the evening of December 7th. (Yes, the 160 Meter contest is that evening, sorry!) Reception hours are 6-9PM.

We figure there is room for about 30-40 people (at one time) in the 3 room suite we rented. Drop in for a few minutes or come and stay for a couple hours. We will have hor d'oeuvres, non-alcoholic beverages, and maybe a prize or two. It's

a chance to get dressed up, NOT cook, and start the holiday off right. A 'slight' cover charge is planned and attendance may have to be limited so first come, first serve.

No, this will not be a 'wild' party as in the days of old (shucks!). However, it should be a fun time in a comfortable atmosphere. Interested? Contact Jim or myself to sign up.-WA7UVJ

## **MINUTES GENERAL MEMBERSHIP MEETING SEPTEMBER 21, 1991**

The meeting was called to order at 10:00 AM by Mike, WA7UVJ, President. Pledge of Allegiance and introductions followed. In attendance were 65 members and 5 guests. A motion passed approving the minutes of the previous meeting.

Vice Pres, Jim, K7ND: Introduced 4 new applicants: Jim Freedman, K7JF; Brian Baskett, WA7PVE; Joyce Baskett, KA7VXN; and Chuck Benefiel, N7STR. All were voted to full membership and welcomed to the club.

Treasurer reported a balance of \$14,728. A CD will be turned shortly to set up the '92 Flea Market.

C.O.B., Frank, KA7QHG, announced a permanent nominating committee has been formed to seek out interested candidates with Frank as the current chairman. The rest of the committee will remain anonymous. If asked to run for an office, please consider it and inquire about the specific duties.

Nominations were then opened for the newly vacant position of secretary as provided for in Article VII of the Constitution. Nominated was Mike, WB7AYU. A unanimous ballot was cast electing Mike to serve the remainder of the present term.

Four sets of publications have been received from League Headquarters, one has been delivered and the rest to be distributed shortly to libraries.

Ralph, WX7T: Reports on the antenna bill process. He is looking for access to

legislators, paths to lawmakers, and contact people. Please contact him if you can help.

Radio Club of Tacoma member, Jeff, K7JF, presented our club with a Field Day plaque for out scoring them on 20 CW last June.

A break was taken at 10:30.

The meeting resumed at 10:40 with guest Verne Bennett, USCG, Ret. representing the Magellan Corporation giving a presentation of Global Satellite Positioning, Satellite Transponders, and Personal Receivers. The presentation was very well received, complete with demonstrations.

The meeting continued with new business, report of the picnic and current news happenings. There being no further business, the raffle was conducted by Julian, KA7MCB. Certificates won by N7PWR, KB7ABY, N7QFX and Wattmeter to N7QFX. The meeting was adjourned at 1200 P.M..

Submitted by  
Mike, WB7AYU, Secretary

## **H.F. RIG DOWN?...INQUIRE WITHIN**

HF Rig out of service! Sorry about that, but don't mope around the house. You are risking the chance of becoming permanent dish-washing orderly or even worse, getting registered on the current Honey-Do list (Heaven forbid!).

Fire up that 2 meter rig and join us on the K7LED Repeater Net every Wed. Nite at 7:30 PM. At the present time, we have 5 net control stations with room for more. There is also a Swap-and-Shop with 2 items permitted. Come join us...We have been having big turnouts with the net going to 8:15 PM.

Don't risk getting dish pan hands! C U there on 146.82. Frank, KA7QHG

**CLUB MEETING 10 AM ON THE 19th  
OF OCTOBER AT RENTON UGN  
CENTER**

## VISITORS 9/21/91

Terry Justus, 208 E. Morton, Kent 98032  
N7OUF, Steve Becker, 4415 N.E. 5th St,  
Apt B-201, Renton, 98059  
KB7NXX, Whitey Bickart, 1228 S. 146th,  
Seattle, 98166. K7ND

## WELCOME ABOARD

Joyce Baskett, KA7VXN, Tech  
Brian Baskett, WA7PVE, Extra  
5802 Swan Creek Dr.  
Tacoma, WA 98404  
472-6812

Jeffrey Freedman, K7JF, Extra  
6408 - 78th St. W.  
Tacoma, WA 98467  
584-5366

Chuck Benefiel, N7STR, Tech  
Box 82  
Fox Island, WA 98333  
279-1517

Please add these new members to your  
roster. K7ND

## BOOKS

The ARRL books have been distributed  
to the trustees for dispersal into the library  
and educational system. Hopefully there  
are a couple articles describing the  
process in this months Relay.

Gib, W7JIE, made a very good  
suggestion that we should be careful not  
to cover libraries already blessed in  
previous years and watch to make sure  
they were properly displayed. So...., I  
made a trip to my local library (which was  
a 1990 recipient) and looked up the  
section on Amateur Radio.

There they were! This library, in Kent,  
was very deficient in radio literature  
previously. I picked up the 1990 ARRL  
Handbook and turned to the checkout

slip. Not too bad, a little more than a  
dozen checkouts in the past year. That's  
an average of once a month. (Actually, the  
hard cover binding was more worn than  
my personal 1989 copy.) Checking the  
other titles, I found that most had a  
respectable checkout rate.

Of course, we don't know if one person  
checked out the book many times or we  
reached a wider audience. I do know that  
when I was just starting, at age 14, the  
library was my ONLY source for radio  
publications because I just couldn't afford  
anything else. Either way, I think the  
investment is worthwhile and working for  
Amateur Radio.

Hmmmmm, there's that Yagi Handbook  
I was thinking of buying (it was a little  
expensive at the radio store). Maybe I'll  
just check it out and review it before  
plunking down the bucks.-WA7UVJ

## ROSTER CHANGES

N7NFJ - New Phone: 487-2499

KB7KBY - Phone: 824-9356

N7DLV - Address: 11311 - 26th Ave. S.  
#308, Seattle, 98168

KB7GEW - Name: Claire Mitchell,  
Treasurer

## HI-LITES BOARD MEETING OCTOBER 1, 1991

Present: WA7UVJ, KA7QHG, K6DOW,  
KB7GEW, K7ND, WX7T, WB7AYU.  
Absent: KA7MCB, K7YR, AD7G, KF7QF.  
Visitors: WA7EKH, WA7TAI, N7DLV,  
N7JPW.

The meeting was called to order by  
C.O.B. Frank, KA7QHG. Thanks to  
N7JPW for filling in as Secretary and  
thanks to WB7AYU for accepting the  
position of Secretary for the remainder of  
this year. Welcome back to KB7GEW.

It was moved, seconded and passed to approve minutes of last board meeting as published in the RELAY.

Pres, WA7UVJ: Books delivered and will be dispersed. Local Kent library shows good usage of books donated last year. Christmas party is Dec. 7, 6-9PM. Hors D'oeuvres with non-alcoholic beverages will be provided. Place is Embassy Suites, Tukwila. If members desire alcoholic beverages, may go to the bar. Approximate cost will be \$3.00/person, \$5.00/couple.

Offices of Treasurer and Secretary are filled.

Program for October: A tape has been requested from ARRL. Favorable comments from September program.

Vice Pres, K7ND: New applications include Mark Pereira, WA1JVY and Allan Olson, KB7NYF. Both approved to be presented for membership at the October general membership meeting.

Treasurer, KB7GEW: \$2,56.92 in checking. \$13,272.29 in Savings. CD's unchanged.

Trustee, WX7T: Set of books will be presented to Chinook Middle School, Clyde Hill. Bill, WB7CVK, Math and Science teacher has a station at the school and approximately 5 students at this time. It is suggested club members invite these students to see a station and invite them to meetings.

Suggestion to send article to ARRL and QST regarding donation of the books. N7JPW will do this when info available. Suggested a picture be submitted to QST of books being presented to school.

Trustee, K6DOW: Some complaints about courtesy signal too long on repeater.

Trustee, KA7QHG: Upswing of young people in HAM radio according to Mary Lewis. ARRL keeping record of Code/No Code Techs for FCC. VEC's supplying the info.

Secretary, WB7AYU: In process of checking books to make sure all minutes are there.

N7JPW: Continues to need articles for RELAY. Will do editorial this month.

WA7TAI: "Just visiting."

WA7EKH: WA7EBH and KA7QHG going to Fort Flagler this weekend to secure facilities for 1992 Field Day.

Conversations with HAMS on Repeater. Club generator at QTH of Arnold, W7JWP. Have been working on it. Found 6-8 spark plugs for it. Need spare tire for trailer, a 14" size. Let Ray know if you have one to donate. U. of W. has ARC with about 10 members. N7JPW.

Ed Note: Minutes not received from Sec, so I may have missed some items. Hence, Hi-lites only. Thanks, jpw.

TACOMA FLEA MARKET  
OCTOBER 19TH AT 9 AM  
CAMP MURRY NATIONAL GUARD  
ARMORY

## CONTESTING

The next few months will bring some of the most exciting contests and chances to work DX that come every year. Fall is CONTEST time!

CQWW - This biggie sponsored by CQ magazine is probably the years most widely entered event. Right now, contesting crews are making travel plans for all over the world to put rare countries on during this contest. Plus, for the first time, there will be a low power class in this contest for those of us without lots of GOO (power). See CQ magazine (Sept) for details.

Sweepstakes - This old classic stateside contest has been enjoying a rebirth lately. Sponsored by the ARRL, you can get a collectors pin by making only 100 contacts and sending in your logs. (Wanna be real popular????? Just show up Sunday morning after all the big guys have worked each other.) This months QST should have the details. Also, look for K7LED on CW weekend!

160/10 Meters Contests - Single band contesting at it's best. Also sponsored by the ARRL, the nice thing about these two is that usually you get 12 hours off while

the band is dead (160 in the days, 10 in the evenings). For you Novices and Techs, the SSB sub band on 10 meters gets a real workout and the DX pours in. The rules will probably be in the November QST.

Anyway you slice it, the Fall is contest season and a lot of fun. Hope you'll give it a try. -WA7UVJ

## SUPPORT YOUR BOARD

You, the members, elected a very capable and willing slate of board members last spring. How about giving them the support they need and deserve? Many times I hear groans and moans about how things should be done or what's not being done the "right way". Alright...Why not direct your comments, etc. directly to the board? While you're at it, why not submit a possible solution to whatever problem you see?

All members are welcome to attend the Board meetings on the first Tuesday of every month held at the Omni Restaurant, just off I-5 on 188th. If you can't attend, give your comments, etc. to any one of the board members to present for you.

As far as I am concerned, most of these board members have done an outstanding job. Some officers have had some out-of-town commitments, but other members from the club have filled in for them and certainly got the jobs done. Right now our Activities Manager is out of town on business and WA7UVJ is doing his job. Hopefully, this will be resolved soon as Mike has enough to do being President! The Radio Officer has not been to any board meetings this year.

About those very few board members that seem to be consistently absent from board meetings...what can I say? They are missed!! Should they be replaced? Food for thought. I feel that when someone is elected to an office of an organization, he/she has agreed to the responsibility of attending board meetings. If unable to attend, these persons should contact the Chairman of the Board or the President prior to the meeting and let him

know of the pending absence and any business needing to be presented.

Well, I did it....said my piece....put my foot in my mouth?,,,I think not. Just an opinion or two...something I've been wanting to say for along time. I welcome your comments. N7JPW

## MFJ KEYBOARD

Last month, Angela (KC7EQ) was kind enough to donate a MFJ keyboard to the M&K. It will generate CW and RTTY. (Sorry, it won't decode them for you too.) Keyboards are an excellent way to generate machine perfect code.

Also, we have a Heath kit receiver that is available for loan. Any budding hams that would like to listen on the air are welcome to borrow it.

If you are interested in borrowing either of these devices, please contact me and I'll be happy to make the arrangements. - WA7UVJ

## IC-MLI RF KEYING MODIFICATION

If you have an ICOM IC-MLI two meter amplifier, here is an easy modification to convert the amplifier to RF Keying. This modification is very easy and only takes about an hour to do.

Figure 1 is a schematic of the modification. Figure 2 is the parts placement diagram. Figure 3 is a component location diagram of the IC-MLI.

Referring to figures 1 & 2, mount the parts on the perfboard. Mount the diodes and resistors vertically to conserve space. Use point-to-point wiring.

Do not cut C1 lead labeled A, R1 lead labeled B, or C2 lead labeled C. These will be used to mount the perfboard to the IC-MLI circuit board. Set the perfboard to the side for later use.

Carefully remove the IC-MLI circuit board from the upper and lower cases. Using solderwick, remove and discard R1.

Mount the perfboard leads A and B at locations A and B as shown in figure 3.

Perfboard lead C will be soldered directly to the lead R31 at location C.

That's all there is to it. Your IC-MLI is now converted to RF keying. Eric Snyder N7DLV

### PARTS LIST

Item	Quantity	Description
C1	1	10pf 50 vdc Ceramic disc
C2	1	.1nf 50 vdc Ceramic disc
D1,D2	2	1N914 Diode
D3	1	5.1 volt zener diode
R1	1	220 1/4 watt resistor
	1	1/2"x1/2" perfboard with .1" hole spacing

SCHEMATIC DIAGRAM

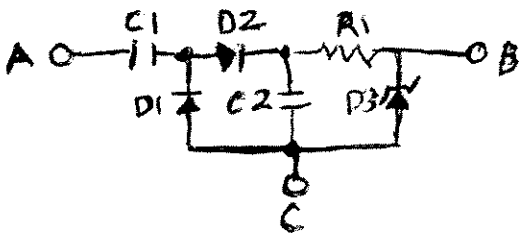


FIG 1

PARTS PLACEMENT

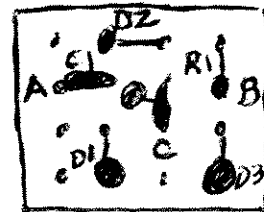


FIG 2

IC-ML1 COMPONENT LOCATION

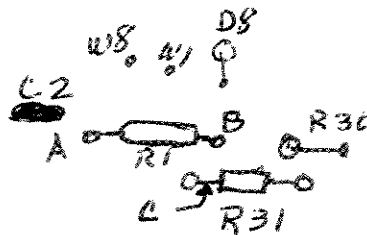


FIG 3

# ELECTRONIC MAIL

## *Guidelines for Responsible Use*

*Electronic mail (email) is a unique medium of communication. The following are some basic guidelines in the responsible use of email, to help you avoid some of the more common mistakes while enjoying the full benefits of this exciting communication technology.*

### Email — A Useful New Tool

The following characteristics of email make it a valuable and attractive tool.

- ◆ Messages can be forwarded or replied to easily and quickly.
- ◆ Electronic mail has the potential for reaching a wide audience.

*These features can also easily be misused.*

### Privacy Not Guaranteed

For example, once you send an email message:

- ◆ It may be forwarded, reforwarded, printed, or permanently stored by any recipient.

### Email — A Not-So-Subtle Medium

Email does not convey the subtleties of body language, voice intonation, or other cues with which we express meaning.

- ◆ Avoid attempts at irony or sarcasm.
- ◆ The most effective email is *short, clear, and relevant*.

### Inflammatory Mail

If a message makes you angry or upset, allow time to pass before responding.

- ◆ You may better understand the sender's meaning.
- ◆ Your reply will be more moderate when your anger has subsided.

### Misdirected Mail

Sometimes email is incorrectly addressed. If you receive a message intended for someone else:

- ◆ Return it and *let the sender know it was sent incorrectly*.

### Replying And Forwarding

Most email systems allow responses to be sent to all recipients of a message. Consider whether this is appropriate before using this feature. It may be better to reply to only the sender.

- ◆ Avoid indiscriminate forwarding of messages.
- ◆ If you have doubts about forwarding a message, *ask permission from the sender first*.

### Junk Mail

Information useful to one person may be unnecessary to another.

- ◆ Consider your distribution list carefully.
- ◆ Avoid unnecessary proliferation of messages.

### Maintaining Email Files

Email messages are files, and take up computer space, just like any other data.

- ◆ Check your mailbox periodically.
- ◆ Delete saved mail which is no longer needed.




**Just remember :**

*The proper use of electronic mail comes down to . . .  
common sense and good citizenship!*



# MIKE AND KEY AMATEUR RADIO CLUB

October 13 - November 23, 1991

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
Oct 13	Oct 14  <b>Columbus Day</b> (Observed)	Oct 15	Oct 16 7:30pm MIKE AND KEY NET ON 146.82 RPTR.	Oct 17 7:00pm PUBLIC SERVICE NET ON 146.82 RPTR. 7:30pm PARS MEETING Puget Power Bldg. Bellevue	Oct 18	Oct 19 7:30am Breakfast at Riverside 10:00am CLUB MEETING AT UGN IN RENTON 1:00pm VE EXAMS at Good Neighbors Center
Oct 20	Oct 21	Oct 22	Oct 23 7:30pm MIKE AND KEY NET ON 146.82 RPTR.	Oct 24 7:00pm PUBLIC SERVICE NET ON 146.82 RPTR.	Oct 25	Oct 26
Oct 27  <b>Daylight Savings</b> Daylight Savings--set back 1 hour	Oct 28	Oct 29	Oct 30 7:30pm MIKE AND KEY NET ON 146.82 RPTR.	Oct 31 <b>Halloween</b> 7:00pm PUBLIC SERVICE NET ON 146.82 RPTR.	Nov 1	Nov 2 8:00am CAMANO ISLAND HAM BREAKFAST
Nov 3	Nov 4	Nov 5 <b>Election Day</b> **RELAY DEADLINE FOR NEXT ISSUE** 7:30pm Board Meeting OMNI RESTRAUNT	Nov 6 7:30pm MIKE AND KEY NET ON 146.82 RPTR. 7:30pm ISSAQUAH RADIO CLUB MEETING	Nov 7 7:00pm PUBLIC SERVICE NET ON 146.82 RPTR.	Nov 8	Nov 9 HELP NEEDED CONTACT WA7EBH 9:00am AUBURN VETERN'S DAY PARADE
Nov 10	Nov 11 <b>Veterans Day</b> 	Nov 12	Nov 13 7:30pm MIKE AND KEY NET ON 146.82 RPTR.	Nov 14 7:00pm PUBLIC SERVICE NET ON 146.82 RPTR.	Nov 15	Nov 16 7:30am Breakfast at Riverside 10:00am CLUB MEETING AT UGN IN RENTON 1:00pm VE EXAMS at Good Neighbors Center
Nov 17	Nov 18	Nov 19	Nov 20 7:30pm MIKE AND KEY NET ON 146.82 RPTR.	Nov 21 7:00pm PUBLIC SERVICE NET ON 146.82 RPTR. 7:30pm PARS MEETING Puget Power Bldg. Bellevue	Nov 22	Nov 23

Contact editor for additions

# MEETING NOTICE

---

The Puget Amateur Radio Society will hold its regular monthly meeting on *October 17th* at the Puget Power and Light Building in downtown Bellevue. The meeting starts at 7:30 PM and goes until 8 PM, followed by cookies and pop and then the featured speaker will be **Mr. Don Stoner, President of the National Amateur Radio Association** speaking on:

**HAM RADIO: How NARA is attracting new people to the hobby of world-wide communications.**

The Puget Amateur Radio Society meets in the Puget Power and Light Auditorium on the North side of the main building located at 10608 NE 4th Street, in downtown Bellevue. PARS is open to all interested hams and those wishing to obtain a ham radio license. It is not necessary to be a Puget Power employee to become a member. For further information on this meeting please contact Jim Hossack, W7LS at 882-0466

*Please post this announcement*