



From our Club President...

Odds & (Year-) Ends

by Dick Radford WA7NIW, President

Odds have it that the Weather patterns will, at some time this winter, fall with disfavor on our region, so the call to 'be prepared' cannot get worn out. This is a good time to check your batteries for proper charge and verify that your 'Go-Kits' are ready. We never know when we'll get into one of those weather patterns that bring flooding, and with the Howard Hansen Dam situation we should be even more vigilant.

Year-end marks the time for the Club to consider next year's budget, which is currently in development. Be sure to let one of the Board members know what items you think need to be changed to make it reflect the direction the Club should be going in.

As the Holidays approach, so comes a Bell-Ringing opportunity on behalf of the Salvation Army. I'm not sure just how many of us are planning to sign up to ring bells for the Salvation Army, but I am sure that there is room for more (there always is), it's fun to do with a partner and the time goes by quickly. This year we will be ringing bells on December 5. See the article elsewhere in this publication for more details, and remember to sign up at the Club meeting.

-Dick, WA7NIW

Field Day 2009: Results Are In

by Steven Cook KD7IQL, '09 Field Day Chairman

Congratulations to all for a job well done!

The Club placed very well again. Overall we came in 21 out of 2612 operating Stations. In the category of '6A' we came in 3rd out of 41 Stations. In Western Washington we came in first out of 60 Stations.

And just to make it more interesting, due to some mix-up, the Calls of K7LED and KD7IKV are both listed as the Mike & Key Club. We will have to thank Brendan for his very good showing of 4,083 QSO's - who knew?

PS - My thanks to Brendan KD7IKV and Allen KB7SVU I could not have done this without your help.

M&K Club Holiday Party

by Michael Dinkelman N7WA

For the first time in several years, we will be having a December Holiday Party. It will be held at the Salvation Army on Saturday December 12th, with a non-alcoholic Happy Hour starting at 5 PM and Dinner at 6 PM.

This party will be a Pot-Luck. The Club will provide the main entree's of Ham, Turkey, and something Veggie. We'll also provide the beverages. You get to show off your cooking skill by bringing something appropriate for the event. There is a list below if you are at a loss for ideas. You can either email me to let me know you are coming and what you are bringing or sign up at the next Club meeting.

(Continued on Page 4)

Bell Ringing - Salvation Army

By Jim Etwiler KD7BAT- Email: kd7bat@arrl.net

The calendar has come around again to the time to volunteer one hour of your time to 'Ring the Bell', Dec 5, for the Salvation Army. The Salvation Army benefits by raising much need funds to support their programs in the community. The Mike and Key ARC benefits with reduced expenses for use of the meeting hall, and members benefit from the sheer wonderful feeling that results from helping, so it's a Win-Win.

(Continued on Page 3)

IN THIS ISSUE:

From Our President-Dick WA7NIW	1
FD'09: Results Are In	1
M&K Club Holiday Party	1
Bell Ringing - Salvation Army	1
M&K Club Contact Information	2
M&K November Club Mtg & Activities	3
M&K FleaMarket Meeting Minutes	3
M&K FleaMarket 'Frequent' Flyers	3
Who's Your Elmer?	4
Celebrate Our November Members	4
N7WA: November Program 'Teaser'	4
FEMA National Radio System	5
CQWW SSB Contest (October)	6
M&K General Meeting Minutes	6
M&K Board Meeting Minutes	7
M&K Reference Lending Library	8
7th District QSO Party Plaque	9
Special: ARRL Newsletter Excerpts	9
Bob Donnell KD7NM, SK	9
Ham Radio Nets & Events- Nov/Dec	10



The *K7LED Relay*, published monthly, is the official newsletter of the Mike & Key Amateur Radio Club. Mike & Key ARC is an ARRL-affiliated club dedicated to the growth and betterment of Amateur Radio.

The club meets at 10 A.M. the third Saturday of every month at Salvation Army Headquarters, 720 S. Tobin Street, in Renton (near the southeast corner of Renton Airport). Anyone interested in Amateur Radio is invited to participate in the Mike & Key ARC and its activities. Annual dues are \$12 for individuals and \$18 for families.

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Web Site:

www.mikeandkey.org

Send dues to:

Mike&Key ARC
P.O. Box 4234
Renton, WA 98057-4234

K7LED Repeaters:

146.82 output / 146.22 input
(PL 103.5)
Tiger Mountain
224.120 output / 222.520 input
(PL 103.5)
Tiger Mountain

Email:

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Mike & Key Online -- Several club resources are available online:

On the Web — The Club's site at 'www.mikeandkey.org' includes extensive information about Club activities and events, such as: VE testing, membership, past editions of the *Relay* and more.

Reflector — The Club's public message board offers an easy and free way to converse with club members.

To sign up, surf to: <http://groups.yahoo.com/groups/mkarc>.

E-Relay — Want the newsletter in color and a day or two before the print edition arrives by regular mail?

You will also save the club some money in printing and postage costs. To sign up, send a message to the editor: kg7ku@arrl.net.

M&K November Meeting & Activities

by Jim Aigner N7MU, Activity Chair

Last month Ron Zuber gave us some insight into the FEMA National Radio System and his vision of how amateurs may be able to help staff its operations in the future. If you missed Ron, you can read more about this in a related article in this issue.

The big news is that we will indeed have a Holiday Party potluck dinner thanks to Mike Dinkelman's volunteering to chair the event. So mark your calendars for December 12th and think about what food you will bring and how you can help with the set up and clean up. Watch the web site for details. It's been some time since we had a holiday party. We're due for a good time.

Mike N7WA is also our presenter this month. He will discuss coax connections and demonstrate how to make crimped connections for RG 213. This is a hands-on program. We will have crimpers and tools for working on RG 8/RG 213 and RG 58. If you would like to try your hand at this, bring your coax. We will have a limited number of crimp connectors in assorted sizes available for purchase.

The QRP kit among October's door prizes was a hit. So we have TenTec 1056 direct conversion receiver kits for November and December door prizes. The kits include an aluminum case and can be built for any band from 160 through 10 meters. For November we also have a coax crimper and die set, a W2AU 1:1 antenna balun, a K7LED badge, and a package of chocolate peanut clusters.

See you Saturday, November 21.



Photo: These November door prizes await you

Flea Market Meeting Minutes

held November 3, 2009

Present: Dave Smith KB7PSN, Gil Drynan W7GIL, Diane Dinkelman KB7DNE, Michael Dinkelman N7WA.

Dave KB7PSN – delivered flyers to Rickreal Hamfest in October. He has volunteered to chair the Ticket Booth.

Gil W7GIL – has an assistant (and hopefully eventual replacement) in returning member Ted Van Tuyl N7HKL. Diane KB7DNE – database is up and checks are coming in.

Mike N7WA – Received League sanctioning, vendor letters have been mailed, labels have been ordered from the ARRL, flyers have been ordered from Costco. Ivy WA7IVY has volunteered to chair Announcing. The worker signup book made it's first appearance at the last club meeting. Next meeting is December 1st.

Fleamarket 'Frequent' Flyers

by Michael Dinkelman N7WA

At the Club's October meeting I asked for a show of hands of those willing to stay a couple hours after the Club meeting and stuff envelopes with flyers and label them. A lot of hands went up so I will be bringing flyers and envelopes and we can start an assembly line (or two) after the program. Heck, maybe can start the assembly lines running during the program?

I don't expect to make a big dent in the 11,000 flyers we have but it'll be a fun social event and I will provide pizza for lunch as an inducement. It might give some of you a flavor of what some of our more active flyer labelers go through every year (except I don't buy them pizza).

Speaking of that, I still need my cadre of labelers to do the rest of the flyers we don't finish after the Club meeting. I usually hand out 2,000-3,000 to each volunteer and it's something that can be done while watching TV in the evenings if you are so inclined.

This task needs to be completed by the December Club meeting. I have a couple of my regulars who have already volunteered, I just need a couple more. Instructions are included.

Bell Ringing... [Continued from Page 1]

Last year there were multiple reports of a great time had by the participants and we raised significantly more money than the average.

Mike and Key has volunteered to ring bells on **Saturday, December 5**, at two locations again this year. There will be signups at the membership meeting on November 21 or send an email to the webmaster indicating that you want to be part of this worth while project.

Like last year it is planned to have volunteers rotate in one hour shifts. Spouses or significant others are welcome.

November 2009

Club Holiday Party... [Continued from Page 1]

First to sign up gets first choice of items to bring. (No, we are not looking to have 10 bags of rolls.) There will be no gift exchange. (Yes, I know... some of you will miss that but it has gotten kinda old.) Instead, for entertainment, I would like to review the year through pictures. Please look through the pictures you have taken during Mike & Key events of the past year.

You might also include pictures from your personal ham accomplishments in 2009 (that new tower, the new rig, the new license). They need to be digital and I need them before the first of December so I can assemble them into the presentation. They idea is to celebrate the past year as we look forward to the new one. There will also be another competition, starting when you arrive, that will require your best interrogation skills.

Below is the minimum list of things we'll need for dinner. If you sign up for a hot item, please bring it hot and cooked. There is not enough space or time to cook items down on site. However, we should be able to keep items hot in the kitchen between 5PM and 6PM. Most items have two or more signups so the burden is not on one person. You'll see that some have already been spoken for.

Set-up and decorating will start about 2pm. I've had several volunteers say they will be there to help with setup. The more the merrier. See you all there!

Hors d'Oeuvres (no later than 5pm for Happy Hour)

Vegetable Tray –
Chips/Dips 1- Chips/Dips 2-
Cheese & Crackers 1 - Cheese & Crackers 2-

Side dishes (must be there by 5:30PM)

Mashed Potato's 1 - (taken) Mashed Potato's 2 –
Sweet Potato/Yam 1 & 2 - (taken)
Hot Vegetable dish 1 - Hot Vegetable dish 2–
Roll's and 1lb of butter/margarine 1-
Roll's and 1lb of butter/margarine 2-
Stuffing 1 - Stuffing 2 –
Cranberry Sauce 1 & 2 - (taken)
Tossed Salad 1 - (taken) Tossed Salad 2 –

Desserts

Pies (Pumpkin/Apple/Other) Cake
Cookies Other items?

Who's Your Elmer?

by Jim Aigner, N7MU

One of the great things about amateur radio is the continuous coaching and encouragement you can expect from your peers. Most amateurs have fond memories of an Elmer who gave them their start in this hobby. The recent membership survey indicated lots of interest in this "Elmering" – both on the giving and the receiving end.

In a large club like ours, with so much radio knowledge and experience, you can bet there is a lot of coaching going on right now, most of it below the

K7LED Relay

radar. Just the same, we want to encourage and facilitate that mentoring for our members. So we will do a few things based on a successful model used by the Radio Club of Tacoma (my thanks to Alan Hughes KB7SVU for that information).

We'll publish a list of radio-related topics that members may want to get some help with. The list will identify the primary "Elmer" for that topic along with contact information. This person will coordinate the requests for help within that subject area. This is an organizing task which matches members' needs to the best available help. And for some topics there will be several people involved in the delivery of that help.

Requests can be made in the form of phone calls, emails, or face to face discussions. And the responses can be as simple as an email or as complex as a project or work party. It all depends on what's required to get the job done.

At future meetings, we'll identify those who are the primary Elmers so you can meet and talk with them. Stay tuned.

Celebrate our November Members

by Carolyn Pasquier WV7Q, Treasurer

As of November 2009, these folks have been Mike & Key members for the number of years stated. Congratulations to all of you, and thanks for your participation and service. *Each of you makes us who we are:*

Jack Grimmett	N7IHS	21 Years
Dick Bridges	N7YOB	17 Years
Gil Drynan	W7GIL	16 Years
Joe Langjahr	KJ7DG	15 Years
Fred Roberts	W6TKV	14 Years
Mike LaFerla	K7JML	12 Years
Ronnie LaFerla	KC7UFS	12 Years
Dick Radford	WA7NIW	9 Years
Dave Mackin	KB7ERF	8 Years
Hideki Saito	WU7J	7 Years
Adam Koczarski	KA7ARK	4 Years
Tim Kane	K7ANE	3 Years

November Program 'Teaser'

by Michael Dinkelman N7WA

In my many years as a ham, I have probably soldered 100's pf PL-259's. Frankly, up until a few years ago, I always worried about how well the shield was soldered to the shell and whether I had melted the dielectric. Since I switched to the K3LR method a few years back, I don't worry about the quality of the shield soldering anymore or overheating. Yet I was still intrigued by a program given at the DX Convention in Spokane last summer about using crimped PL-259's.

[Continued on Page 5]

November 2009

Program 'Teaser'... [Continued from Page 4]

Since then, I have switched over to crimped connectors. When you think about it, virtually all commercial cables and professional installers use crimp connectors and the cost is not any higher than that for high quality solder type connectors after an initial investment for the crimper and dies.

This month, for the Club program, we'll see the Powerpoint that got me going, review what I (and you) have learned, and have some opportunity for some hands-on coaxial cable crimping. --Mike N7WA

FEMA National Radio System

by Jim Aigner N7MU

Can you see yourself operating a 10kw station for long-haul high frequency communication during times of emergency? Ron Zuber KC7RWT can. He's the FEMA Region X Program Manager for the FEMA National Radio System (FNARS). When he spoke to us in October, he shared his vision about using amateurs for that purpose.



Photo: Ron Zuber KC7RWT at October M&K Meeting

Current regulations restrict the use of operators to those who are FEMA employees, even during an emergency. Assuming staffing in pairs for six-hour shifts, that still requires eight operators for a 24-hour shift. But those restrictions may change in time as the Federal Government studies the importance of its amateur radio resource as a national communications asset during emergencies.

Ron cited two encouraging bills in Congress that may be the beginning of a change in direction, both identified as "Amateur Radio Emergency Communications Enhancement Act of 2009". They both call for a "study of the enhanced uses of amateur radio in emergency and disaster relief communication and for relief of restrictions." House bill HR 2160 and Senate measure S 1755 both deserve support of the amateur community.

In an emergency, FEMA has access to commercial communications infrastructure including fixed and mobile satellite links. The FEMA National Radio System is the communication backup of last resort and consists of HF stations with voice and data

K7LED Relay

capability for nation-wide communications. Every state and territory has at least one 1kw system as part of this network.

Region X, headquartered in Bothell, has two 1kw transmitters and two 10kw transmitters, three rotatable log periodic antennas, two fixed log periodic antennas, along with a fan doublet and a Spiro-cone. Currently, FNARS can operate two systems simultaneously in any combination of voice or data. After the completion of the system upgrade, they will be capable of running four simultaneous links. To keep the system in a ready state, there are weekly tests of voice, 2400 baud data, 75 baud data, and phone patch services.

They can operate on their choice of about 80 different HF channels. A table of those frequencies follows this article. You can monitor them during an emergency if you have general purpose receive capability.



Photo: Two Harris receiver system pairs, each capable of monitoring .5 MHz to 29.999 MHz.



Photo: 1-KW HF Transmitter [Article-(Table)-Continued on Page 6]

High Frequency Channels for Region X

Ch#	Freq	Mode	Ch#	Freq	Mode
00			50	15708.00	2ISB
01	2320.00	2ISB	51	16201.00	USB
02	2360.00	USB	52		
03	2377.00	USB	53	17519.00	2ISB
04	2445.00	2ISB	54		
05	2658.00	2ISB	55	18744.00	USB
06	3341.00	2ISB	56		
07	3379.00	USB	57	19969.00	2ISB
08	3388.00	USB	58	20027.00	2ISB
09	4603.00	USB	59	20063.00	USB
10	4780.00	2ISB	60	21866.00	2ISB
11	5211.00	2ISB	61	21919.00	2ISB
12	5378.00	USB	62	22983.00	USB
13	5402.00	USB	63	23028.00	2ISB
14	5821.00	USB	64	23390.00	USB
15			65	23451.00	2ISB
16			66	23550.00	2ISB
17			67	23814.00	2ISB
18			68	24008.00	2ISB
19			69	24282.00	2ISB
20			70	24526.00	2ISB
21	6809.00	USB	71	24819.00	2ISB
22	7348.00	USB	72	10899.00	2ISB
23	7428.00	USB	73	11108.00	2ISB
24	9462.00	USB	74	12112.00	USB
25	10194.00	2ISB	75	13894.00	USB
26	10493.00	2ISB *	76	13935.00	USB
27	10588.00	2ISB	77	13956.00	2ISB
28			78	14567.00	2ISB
29			79	14871.00	USB
30			80	15840.00	2ISB
31			81	16238.00	2ISB
32			82	18483.00	2ISB
33	12129.00	USB	83	20361.00	2ISB
34	12216.00	2ISB	84		
35	12219.00	USB	85		
36	13446.00	2ISB	86		
37			87		
38			88		
39			89		
40			90		
41	14450.00	2ISB	91		
42	14776.00	2ISB	92		
43	14836.00	2ISB	93		
44	14885.00	2ISB	94		
45	14899.00	USB	95		
46	14908.00	USB	96		
47			97		
48			98		
49			99		

* Receive only
 USB = upper
 sideband
 2ISB = voice, phone
 patch, data

CQWW SSB Contest (October)

by Michael Dinkelman N7WA

Mike KM7F availed himself of the opportunity to join N7ZG and N7WA in a multi-operator opportunity during the CQWW SSB Test in October. (Yes, those are microphones being used). He worked lots of DX and the smile says it all.... contesting IS fun.



Photo: Mike KM7F is 'all grins' with this contesting stuff

M&K General Meeting Minutes

held October 17, 2009

Meeting was called to order at 1004 hours by the President, Dick WA7NIW.

Pledge of Allegiance.

Announcements:

The Mike & Key ARC is affiliated with the ARRL, which members are encouraged to join. Everyone, including visitors, should sign the rosters. Visitors are reminded not to vote on membership matters.

Officer Reports:

President – Dick WA7NIW: nothing to report. Steve KD7IQL received a call from Alan KB7SVU and he relayed that his wife is very ill. We are looking for a chair for the Awards' banquet, as well as someone to head next year's picnic.

Secretary – Ivy WA7IVY: The mail was picked up. She gave Dave KB7PSN a receipt to pick up certified mail from the post office during their hours of operation. Mail picked up this month was delivered to Jack N7ZS.

Treasurer – Carolyn WV7Q: The club's books are in good order. Jack N7ZS is filling in for Carolyn today.

Activity Manager – Jim N7MU: Talk from Ron Zuber KC7RWT from FEMA Region X for today's program. Next month will be a hands on demo on Coax connectors. We are going to have a holiday potluck here at the Salvation army; if you are interested to help please contact Jim. The survey: We had quite a few responses and good feedback that the membership will see being implemented in the near future.

[Continued on Page 7]

November 2009

General Mtg Minutes... [Continued from Page 6]

Chairman of the Board – Robert KD7WNV: We have a vacant trustee position - we will be voting on today.

Radio Officer – Hal N7NW: The 2m repeater is currently on Cougar Mountain; eventually we want to get it on Tiger Mountain. The 220 repeater is up and running, although it does not have EchoLink currently installed.

Relay Editor – Gary KG7KU: not present

Webmaster – Jim KD7BAT: not present

Vice President – Kathy KB7QMO: Membership applications: Roy N7AVN; Ted N7HKL; Russell KF7AQR; All were confirmed by the membership.

Quorum present.

Is there a motion to approve the minutes of the previous meeting as printed in the *K7LED Relay*?

Steve KD7IQL made a motion to approve the minutes as amended; Gill WA7GIL seconded the motion. Motion passed.

Standing Committee Reports:

Strategic Planning – Robert KD7WNV: Robert thanked Jim KD7BAT for getting the survey out to the membership.

Facilities and Publicity –: Dave KB7PSN: We have two MFJ 249 antenna analyzers available for checkout to the membership.

Education and Training –: Tim K7ANE: We are discussing having a class at Seattle Community College, probably to be held in November. We are looking for instructors for this class; please see Tim.

Public Service – (vacant) Robert KD7WNV: Meeting of the Public Service committee will be after the meeting/program at the Cedar River Smokehouse. Starting to make assignments for the new booklet. The special people's holiday cruise is coming up December 6th; see Dick if you are interested. Seattle Marathon is coming up the Sunday after Thanksgiving; contact Gene Underwood AKA.

Technical and Special Interest – Steve KD7IQL: nothing to report

Other Committees (as appropriate)

VE Exams -- Scott AG7T: There were 26 people who attended the testing session during the past two months: 14 Technician; 4 General and 5 Extra.

Field Day -- Steve KD7IQL / Brendan KD7IKV: Steve is no longer the Field Day chair and is looking for someone to head Field Day this year. Frank has secured the Wagon Wheel for the entire week prior to Field day.

Flea Market: Hal N7NW/Mike N7WA: March 6th 2010 (setup on the 5th). We will be having a meeting on the first Tuesday in November; looking for a Country Store chair, Ticket chair and PA/Talk-In chair. Mike has the sign-up sheet for this year's Flea Market. After the November meeting we will have an envelope stuffing session after the meeting; please help if you can. Gil WA7GIL is looking for some help for the telephone committee. This is our only fund-raising event of the year, and this is what keeps our dues low.

K7LED Relay

By-Laws Review Committee: Dave KB7PSN – if you are interested in being on the committee, please talk to Dave.

Old Business:

Election for Trustee #3: To replace Hal N7NW; there is approximately 1 ½ year left for this position. Nominations: Mike N7WA; Michelle WB7AYU. Mike N7WA was elected as Trustee #3.

Alligator Award – Dean N7NKO still holds the award.

New Business – No new business.

Good of the Order –

Andrew AB8L had a baby boy this week (Callsign N/A). Robert KD7WNV mentioned that a sale at HRO on D710 with an AV radio (works with APRS).

Tim K7ANE mentioned that on page 63 in this month's QST is about a mapping program called Depiction. Jim mentioned that there are free online demos available this week.

Steve Hatch mentioned that the Federal Way club is doing a one day workshop on DStar on November 21st. See www.fwarc.org/dstar for more information.

Dick WA7NIW: Today and tomorrow is JOTA until 2400 local time. If you hear any boy scouts on the air this weekend, give them a contact.

The next Mike & Key Board meeting will be on the first Wednesday of the November 4th at 7:00 pm, at the Salvation Army in Renton.

The next Mike & Key General Membership meeting is the third Saturday, November 21, 2009.

Little John WA7HQG made a motion to close the meeting. The motion was passed. Meeting adjourned time.

16 guests; 44 members

Attested: Ivy Nelson-Groves WA7IVY – Secretary

M&K Board Meeting Minutes

held November 4, 2009

Officers present:

President – Dick Radford (WA7NIW)

Vice President – Kathy Martin (KB7QMO)

Secretary – Ivy Nelson-Groves (WA7IVY)

Treasurer – Carolyn Pasquier (WV7Q)

Activity Manager – Jim Aigner (N7MU)

Radio Officer – Hal Goodell (N7NW)

Trustees present:

No. 1 – Tim Kane (K7ANE)

No. 2 – Steve Cook (KD7IQL)

No. 3 – Mike Dinkleman (N7WA)

No. 4 – Robert Grinnell (KD7WNV)

No. 5 – Dave Smith (KB7PSN)

Chairman of the Board Robert KD7WNV called the meeting to order at 7:03 p.m.

Minutes: A motion to approve the minutes of the previous board meeting was made by Dave/KB7PSN and seconded by Steve/KD7IQL. Motion passed.

[Continued on Page 8]

Board Meeting Minutes... [Continued from Pg 7]

Officer Reports:

Chairman of the Board – Robert KD7WNV: Welcome Mike as our new Trustee, and thanks also to Michele WB7AYU for running as well.

President – Dick WA7NIW: nothing to report
Vice President – Kathy KB7QMO: Application for approval: Scott Dwyer KF7ELB; Timothy Farnan KC7LEM; John Swafford W7MEU. All were approved by the board. Kathy has updated copies of the by-laws and will have them available for members.

Secretary – Ivy WA7IVY: Mail was picked up and will be delivered to the Treasurer. Two letters were given to Michael KG7MX, and the bill for the mail box was given to Mike N7WA to pay.

Treasurer – Carolyn WV7Q: not present.

Activity Manager – Jim N7MU: Holiday party organized by Mike N7WA on Dec 12th at the Salvation Army. Program in November will be on making crimped coax connections. After the meeting we will be stuffing envelopes as well.

Radio Officer – Hal N7NW: Repeater is still operating on Cougar Mountain.

Relay Editor – Gary KG7KU: not present

Webmaster – Jim KD7BAT: not present

Standing Committee Assignments:

Strategic Planning: Robert KD7WNV: Jim N7MU stated that the survey is complete and will be dropping off the website in the near future. There was a lot of interest in Elmering at the club. He'd like to put out a matrix with people available for Elmering. Suggestion was made to make Elmering a standing committee; Jim was anxious to get this going as soon as possible.

Facilities: Dave KB7PSN: nothing new to report.

Education: Tim K7ANE: Seattle Community College class is still pending; Tim is still looking for instructors who are available on two consecutive weekdays.

Public Service: Mike N7WA: Robert KD7WNV mentioned that we need to get working on the booklet and need to firm up who is actually on the committee and who can help.

Technical: Steve KD7IQL: Nothing to report.

Field Day: Steve KD7IQL: Still looking for a chair. Results should come out fairly soon for Field Day.

ByLaws: Dave KB7PSN: Looking for input before a meeting of the committee is held.

Old Business-

Discussion of Letter to George: Kathy KB7QMO made a motion that gives Hal N7NW authority to sign a letter on the board's behalf upon consultation with Michael KG7MX to George, seconded by Dave KB7PSN. Motion passed. Motion to authorize this expense to be

charged to the Repeater Upgrade budget line was made by Tim K7ANE, seconded by Ivy WA7IVY. Motion passed.

Insurance: Steve KD7IQL: Steve has a copy of the inventory and is in the process of getting a valuation. The deductible to the policy would be \$50, so it is probably worth our while. Michael KG7MX looked up the track record of the insurance company claims resolution and it has been very good since 2007.

New Business-

Budget for 2010: discussion of budget proposal for 2010. Add a line for professional services, as was discussed in a previous meeting. We should also add an additional line for IRS expenses/fees/penalties under the professional services category. Kathy KB7QMO will update Carolyn WV7Q on our suggested changes.

Good of the Order-

Nothing for the Good of the Order.

Robert authorized a special meeting of the executive board to be held on November 21st at 9 am.

There being no further business, Robert KD7WNV adjourned the meeting at 9:25 pm.

Attested: Ivy Nelson-Groves WA7IVY, Secretary

**Mike & Key ARC
Invites you to visit the NEW Club
Reference & Lending Library**

Volumes include the most recent Editions of:

ARRL Handbook	ARRL DXCC Handbook
ARRL Antenna Book	ON4UN Low-Band DXing
Tech Class Manual	Em-Comm Handbook
General Class Manual	VHF Digital Handbook
Extra Class Manual	ARRL Operating Manual

Due to the gracious hosting of Tokuzo AD7JA, the library is located at his business, Skyway Radio & TV Service, 11818 Renton Avenue So., Seattle, WA 98178, in the Skyway neighborhood, across from Skyway Park Bowling. *(Has 5-element Yagi & tower)*

Club members can check-out books for a four week period, or duplicate individual articles as needed, any time between 12 noon and 4 pm, Mon thru Fri, Saturday, 12 noon to 3 pm, except on Club meeting Saturdays.

Donations: Select ham-related books, equipment operating and service manuals, etc., in good condition, and cash for library fund are gratefully accepted.

Driving Directions: From the North or West: I-5 exit 158 (MLK), go east across MLK up hill on S. Ryan Way to end, turn R on 51st Ave S, turn L on So. Bangor St. (0.2 mi) then R on Renton Ave So. to shop (0.7 mi), on left.

From the South or East: I-405 exit 2A (167), north on Rainier Ave S, L on Renton Ave Ext. (Airport Way on right), continue up hill to shop, on right.

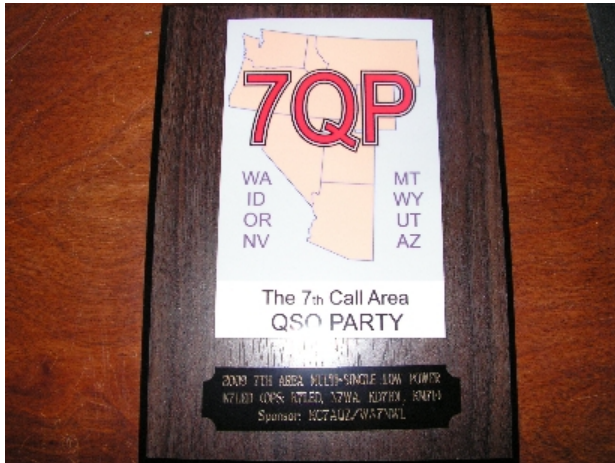
Please park at South fence, between shop & storage company.

November 2009

7th District QSO Party Plaque

by Michael Dinkelman N7WA

The crack K7LED team has earned it's first plaque in the popular 7th District QSO party held each May. This trophy (photo, below) was presented at the DX Convention in Spokane.



Special: ARRL Newsletter excerpt...
November 12, 2009

Amateur Radio in Space: STS 129 -- Stocking the International Space Station

Besides taking spare parts to the International Space Station (ISS) this coming Monday, the space shuttle *Atlantis* (STS-129) will deliver the module antennas for *Columbus* -- the laboratory built by the European Space Agency (ESA) and host of two Amateur Radio on the International Space Station (ARISS) antennas. "Lou McFadin, W5DID, a member of the AMSAT Board of Directors and a key volunteer for ARISS, showed the astronauts the best ways for them to safely unpack and assemble the antennas and associated cables once they and the hardware reach the ISS," said ARRL ARISS Program Manager Rosalie White, K1STO. "They reviewed how to maneuver and install the antennas during the spacewalk. Lou also oversaw the re-packing of the antennas and the onboard flight kit that accompanies shipments going to the ISS." Read more [here](#). [ARRL Letter excerpt cont'd next article]

Amateur Radio in Space: Idaho School Incorporates ARISS into Curriculum

With more than 500 Amateur Radio on the International Space Station (ARISS) contacts conducted, thousands of students have experienced intriguing science and technology lessons -- plus the thrill of speaking with an astronaut who was on the International Space Station (ISS). According to ARRL ARISS Program Manager Rosalie White, K1STO, each school uses the ARISS events in different ways. From school to school, ARISS volunteers see a great range in the types of activities around the event, including

K7LED Relay

integrating the activities into each grade level's curriculum. The lesson in common to all schools includes discussions on what Amateur Radio is, what ARISS is and how the worldwide ARISS Team works together. Click [here](#) to read about how one elementary school in Idaho integrated Amateur Radio, space -- and more -- into their curriculum.



Photo: Three students at Garfield Elementary School in Boise, Idaho play "Where's the Remote?" in preparation for a QSO with the International Space Station. (End of ARRL Newsletter Excerpt articles)

Bob Donnell KD7NM, SK

by Robert Grinnell KD7WNV

I am very saddened to report that Bob Donnell, KD7NM, passed away at his home October 31st.

From past conversations with Bob, I understand he was an active member of the Mike & Key some years ago, so some of you knew him from that time, and some will have known him from his public service or other current connections.

He was an active and vital member of the ham community. Among his many current activities, he was Deputy Radio Officer of ESCA RACES, having served in that office for several years. He helped to organize and lead ham radio support for many annual public service events, including most of the ham-supported bicycle rides in the area, as well as the Torchlight Parade and Seattle Marathon.

Bob was also active with WETNET. His long experience and vast expertise made him a great Elmer, because of his willingness to share that knowledge and patiently contribute his time to help others. Bob will be greatly missed by so many, as an Elmer and as a friend.

Two Web pages have been set up in remembrance:

<http://www.eham.net/friends/displaystory/4797>

<http://www.kg7hq.wetnet.net/node/164>

The latter has a link to a photo tribute. There will likely be a memorial service, but the family has not announced a date, and there is some possibility that it may be as much as a few weeks away, to allow word to spread through the ham community to all who knew him. I will post further information here as available.

73, Robert, KD7WNV

2009 -- Ham Nets & Events -- NOVEMBER / DECEMBER

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
15 2000 -- King Co. ARES 147.08 (Weekly) 2200 -- NW Astronomy Net 145.33 (Weekly)	16 0545 & 1645 -- Weather Net 145.33 (M-F) 1730 -- Puget Sound Traffic Sys. 146.82 (Daily) 1900 -- Seattle ACS 146.90 (Weekly)	17 2000 -- Seattle Red Cross Communications Team (includes 'Elmers Corner') 146.82 (Weekly)	18 2000 -- General /Tech Info 145.33 (Weekly) 2100 -- NWSOAR Net 146.82 (Weekly)	19 1900 -- M&K Public Service Net 146.82 (Weekly) 2000 -- Computer & Packet Net 145.33 (Weekly)	20 2000 -- Youth Net 145.33 (Weekly)	21 1000 -- M&K Club Meeting, Renton 1300 -- Ham Radio Exams, Renton 2000 -- Amateur TV Net 147.08 (Weekly)
22 1915 -- Kids Net Net 145.49 (Weekly) 2030 -- Snohomish Co. ARES 146.92 (Weekly)	23 1800 -- WA Emerg. HF 3.985 (Weekly) 1830 -- WA ARES 3.985 (Weekly) 1930 -- PSRG 146.96 (Weekly)	24 2000 -- Snohomish Co. RACES 146.92 (Weekly)	25 2000 -- Educational Radio Net -- PSRG 146.96 (Weekly)	26	27	28 0900 -- WA ARES HF Net 3.985 (Weekly)
29 <i>Public Service- Seattle Marathon, Seattle. Contact: Gene W7AKA 425-226-4115</i>	30 2000 -- YL Net 145.33 (Weekly)	01 -DECEMBER- 1900 Flea Market Committee meeting	02 M&K Board Mtg 1900- Salvation Army, Renton	03	04	05 <i>Salvation Army Bell Ringing Public Service- Santa Parade, Auburn. Contact: AI WV7R 206-240-6400</i>
06 <i>Public Service- Special People's Holiday Cruise, Seattle. Contact: Dick WA7NIW 425-878-9791</i>	07	08	09	10	11 Relay Articles Due 23:59:59	12 <i>M&K Holiday Party- 5pm- Non-alcoholic Happy Hour 6pm- Potluck at the Salvation Army- Renton.</i>