



From our Club President...

**Happy Holidays to All**

By Ivy Nelson-Groves WA7IVY, President

I really missed seeing everyone at last month's meeting. As they say back home, "I hear ya'll had some weather." I was stuck in the sunshine and 80+degree temperatures in Florida; there's something really wrong about it being that warm in November.

And I especially missed the presentation by Jill Palmer K7JIL, President of Radio Club of Tacoma, of the "You Kicked Our Butts" award, retro to a Field Day challenge back in 2004.

I always seem to miss the good stuff.



Photos courtesy of Dave Smith KB7PSN

On Dec 4<sup>th</sup>, we had a wonderful Club Holiday party at the Salvation Army. My sincere thanks to Mike N7WA and Linda Jordan for the lovely setup and execution of the party this year. If you were there, you know how much fun we all had; if you missed it, I hope you make it next year!

The next planning meeting for the Flea Market will be on Dec 14<sup>th</sup> at Mike N7WA's home. Remember to note the Flea Market on your calendar. We could especially use help getting everything set up on Friday, March 11<sup>th</sup>. But if you can only make it on Saturday, the 12<sup>th</sup>, we'd be happy to see you then as well. There are a lot of jobs that still afford plenty of shopping time. I'm sure Mike and Hal N7NW will have signup sheets ready at the next meeting.

I know that many of you have heard that our sister Ham, Tressie, KC7BAL, passed the way of *Silent Key* on December 4<sup>th</sup>. Tressie has touched so many of our lives with her caring, and with her good humor, as was evidenced by the many hams who attended her memorial service in Puyallup. My thoughts and prayers will be with Alan KB7SVU during this difficult time. We all will miss her so much.

**M&K Club - Holiday Party**

Held Saturday, December 4, 2010

Photos By Hal Goodell N7NW



The Steve Ryals Jazz Duo, left, entertained us delightfully.



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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.

**Postal Address:**

P.O. Box 4234  
Renton, WA 98057-4234

**Web Site:**

[www.mikeandkey.org](http://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:**

info @ mikeandkey.org

**Send newsletter submissions to:**

Gary Bryan, *Relay* Editor  
34033 33rd Ave SW  
Federal Way, WA 98023-7724  
kg7ku @ arrl.net

**Reflector:**

<http://groups.yahoo.com/groups/mkarc>

## Club Contacts

<b>President</b>	Ivy Nelson-Groves	WA7IVY	wa7ivy @ live.com	425-269-3259
<b>Vice President</b>	Steven Cook	KD7IQL	kd7iql @ arrl.net	253-236-4205
<b>Secretary</b>	Robert Grinnell	KD7WNV	r-grinnell @ comcast.net	425-398-1466
<b>Treasurer</b>	Dave Smith	KB7PSN	kb7psn @ yahoo.com	425-235-5095
<b>Activity Mgr</b>	Jim Aigner	N7MU	jimaigner @ comcast.net	253-630-2752
<b>Radio Officer</b>	Hal Goodell	N7NW	n7nw.hal @ comcast.net	253-549-4178
<b>Trustees --</b>				
<b>No. 1</b>	Tim Kane	K7ANE	k7ane @ arrl.net	206-251-7467
<b>No. 2 (CoB)</b>	George Thornton	AE7G	GTLAW @ seanet.com	206-920-7072
<b>No. 3</b>	Michael Dinkelman	N7WA	n7wa @ arrl.net	253-631-3756
<b>No. 4</b>	Alan Hughes	KB7SVU	kb7svu @ junos.com	253-840-4947
<b>No. 5</b>	Daniel Stevens	KL7WM	KL7WM @ arrl.net	206-228-9274
<b>Logo Committee</b>	Dan Humphrey & Dawn Humphrey	N7QHC KC7YYB	n7qhc @ arrl.net	206-243-0163
<b>Webmaster</b>	Jim Etwiler	KD7BAT	kd7bat @ arrl.net	206-633-1512
<b>VE Testing</b>	Scott Robinson	AG7T	ag7t @ arrl.net	425-788-0452

### 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** — To save the Club some money in printing and postage costs, send a message to the *Relay* Editor: **kg7ku @ arrl.net**.



December 2010

## M&K December Meeting & Activities

By Jim Aigner N7MU, Activity Chair

The Holiday season has definitely arrived. Last Saturday several of us rang bells in front of a kettle to collect money for the Salvation Army and its mission. Just a week before that, Mike Dinkelman N7WA and Linda Jordan orchestrated another very enjoyable Holiday potluck celebration. To wrap it up, we are about to have our final membership meeting for 2010, another very successful and activity-packed year.

At the November meeting we dedicated our program time to preparing flyers for the 2011 Flea Market. While a few of us watched the Clipperton 2007 DXpedition video, some 40+ members folded flyers, labeled, stuffed, and sorted envelopes.

For a change of pace, this month you can sit back and enjoy hearing from Grant Hopper KB7WSD. He's a good example of our local leadership in action. Grant is active in local Ham activities, teaches Ham Licensing classes, and, for good measure, is the ARRL Northwestern Division, Vice Director.

Grant will talk about club fun and speak a bit about the League, how all the different aspects (HQ, Field Services, the Sections, and the Divisions) fit together, and exactly what the Director and Vice Director do. Stick around to hear Grant's fun and informative program.



If you are a door prize contestant, this is what you have been waiting for! Not only will we draw for the regular monthly prizes, but we also hold the annual year-end drawing for the four big prizes. You can refresh your memory about the drawing rules and prize details elsewhere in this issue.

For the December monthly drawing we have the following as prizes: a high-visibility mesh ARES vest for your public service events, an ARES Field manual for your "go kit," a handy little MFJ-261 dry dummy load (100w peak, 50 ohms DC to 500 MHz), #14 DC zip cord and Anderson Powerpole connectors, a Tricrimp tool for installing those connectors, the "mystery box", a package of Bongo Ties, and two sets of Yaesu hats and Logbooks.

**Don't miss this one - see you Saturday.**

**K7LED Relay**

## Salvation Army Bell Ringers

By Jim Etwiler KD7BAT

**Success! Saturday, December 11, the Mike and Key - Salvation Army bell ringing, was a success!**

First I must thank Mike Dinkelman, N7WA, for stepping up and being a focal at the Sam's location. This meant that I did not have to spend significant time going between the Sam's and Wall-Mart locations.



Many thanks go to all the volunteers and their significant others that came along to ring the bells for the Salvation Army and stand out in the cold for an hour.



Participating at the Sam's location were Michael Dinkelman, N7WA, Carl Reynolds, N7CJR, Vanndy Eam, N7EAM, Bob LeDoux, KE7JPI, Dick Radford, WA7NIW, and Meredith, Tim Kane, K7ANE, Mike Foster, KM7F, and Eric Snyder, N7DLV.

Participating at the Wal-Mart location were Gill Drynan, W7GIL, Alinda Sue Harrison, KF7JXY, Daniel Harrison, KF7JXZ, Greg Pietruca, W7HRC, and Linda, Carolyn Pasquier, WV7Q, and Loras, Al Hopwood, KB7THX, and Jim Etwiler, KD7BAT.

Special recognition goes to every member of the team at Sam's. They had to stay outside in the rain with out any cover.

The bell ringing team raised over \$83 per hour per kettle for the Salvation Army last year. I am sure most of Mike and Key do not earn at this rate for donating just one hour anywhere else. In these times of record unemployment, these funds will help a lot of folks.

To the whole team: THANK YOU!!!

December 2010

## A Special People's Thanks!

By Dick Radford WA7NIW

**The Special People's Holiday Cruise was a big success thanks to the efforts of many volunteers.**

Together, we helped keep track of over 600 guests traveling on 21 buses from 3 locations to 7 locations, and back, without losing anyone. One key group that made this happen was the Hams. In no particular order they were: Charles Beckmeier W7CEB, Bob Larkin KC8TYE and Gary Bryan KG7KU at Chandler's cove; Victor Eskenazi KD7OWX, David Lee KC7FSR, Anna Hersey KE7OIQ, and Tim Kane K7ANE at Naval Reserve; Jeff Culver W7IUS at Northstar Marina; Ralph Javins N7KGA, and Gene Underwood W7AKA at Puget Sound Yacht Club; Fran Underwood N7FWZ and Robert Grinnell KD7WNV at Ivar's Salmon House; Ted Boessenroth N0YC, and Jon Mercer KC7EWE at Seattle Yacht Club; Brendan Burgett KD7IKV and Pat Shinnars W7GTO at Queen City Yacht Club; Hal Mueller N3YX and Anthony Cuttler KE7HQY at Tyee Yacht Club; Colleen Currid N7LEX, Dick Radford WA7NIW and Meredith Radford at Net Control.

Looking at this group you will see that about half of them are current or former members of the Mike and Key Amateur Radio Club. This is just one indication of the club members' participation in Public Service events. While the "Public Service Season" is just about over for this year, there will be more events next year.

Check out the list in the upcoming 2011 edition of the club's guide to Public Service Events which will be released at the Flea Market, and plan to participate in as many of them as you can. Not only is it good practice for emergencies, it's a whole lot of fun too.

## Special People's Holiday Cruise – A Ham Radio Operator Perspective

By Jon Mercer KC7EWE

Arrived at the Seattle Yacht Club at around 2pm. From there met up with the organizer of the event, and as well as with Ted Boessenroth (N0YC), and formulated a plan of how we want to work communications. It was decided I would go out on one of the boats with Ted's portable APRS, while he stayed at the yacht club.

At around 4pm, the buses started to arrive, and they were all unloaded, and taken past a group of Carolers, to a area to put on life jackets, and then broken in to groups, and taken to different boats that people from the Seattle Yacht Club had volunteered for the event. After loading up everyone, we headed out through the Montlake Cut, and past Foster Island, and out on to Lake Washington, along the 520 bridge.

On our boat, the participants actually had done this a couple times, so they watched the Seahawks game, while the volunteers took care of food and beverages, though every once in a while the signal cut out, due to all the RF from all the boats radars in the area. We proceeded along in procession, down the length of the bridge, to where near Hunts Point, we circled a sail boat with a group of carolers, and Santa waving to everyone. Then we headed back.

After we got back, the participants were given candy canes by Santa, and a gift bag, put together by the SEAFair organizers, then were safely led to the Out-bound Bus loading

## K7LED Relay

area, and sent on their way. We then closed the Net, and went on our way.

The pictures in the link below are ones I took, and representative from the time the In-bound buses arrived to when the boat that I was on arrived back at the dock.

I found the APRS was very useful, because I didn't have to call in all the time, just for more significant things, to give our position.

It was a fun event, which this was my 5<sup>th</sup> year of doing it, am appreciative of the privilege of volunteering for this event, and look forward to helping next year. Follow this link for Photos:

<http://s55.photobucket.com/albums/q150/rconiv/Special%20Person%20Cruise%205%20Dec%202010/>

## M&K Club Holiday Party

By Michael Dinkelman N7WA

Many thanks to all who came out to attend the Club Holiday Party on December 4<sup>th</sup>. Member Linda Jones, my wife Diane KB7DNE, and I arrived around 2pm. Linda started decorating and I started cooking. (Diane helped everywhere) At 5pm, the guests began arriving and were able to listen to some great live Christmas music. There was lots of food and a few more guests than had actually RSVP'd (but we expected that – always glad to welcome everybody).

After stuffing our faces with the dinner and dessert, a short program was presented. One part of it was a video of the "Santa Talks" the Club participated in 25 years ago. Then we looked at some pictures from Club social events throughout the year. We saw pictures of a special array that Hal N7NW created to work a DX station using 6 meter moon bounce and then a rather frightening one of what the wind did to his beams last month when that storm came through.

I think everybody had a good time (at least I haven't heard otherwise). My thanks to both Linda and my wife Diane for their help and hard work.

## Celebrate our December Members!

By Dave Smith KB7PSN, Treasurer

As of December 2010, these 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:*

John Becker	K7PFR	38 Years
Ken Rau	K7YR	38 Years
Raleigh Elkins	WB7WNF	31 Years
Norman Ahrens	N7KWZ	23 Years
Peter Kozlowski	N7UIF	19 Years
Michael Ross	KB7YXB	17 Years
David Smith	KB7PSN	17 Years
Marilyn Olson	KB7WSH	16 Years
Alan Hughes	KB7SVU	14 Years
Ted Roubal	KC7ZEO	13 Years
Edward Maher	NL7VP	7 Years
Robert H. LeDoux	KE7JPI	3 Years
Doug Sutphen	KE7OQW	3 Years
Jessie Vaughn	-no call-	3 Years
Vanndy Eam	N7EAM	1 Year
Allen Evenson	KF7EST	1 Year
Timothy S. Farnan	KC7LEM	1 Year

## M&K In-House Contest Is Live!

By Michael Dinkelman N7WA

Here are the special event stations for January 2011. As mentioned in prior Relay's, the goal will be to work as many of the special event stations published in this newsletter as you can and maximize your points. You'll get a specific number points for each station plus a multiplier factor.

Jan	Station	Time	Pts	Mult	Notes
1-2	K1R	1300-1900Z	5	NY	New Years Special Event – SSB only 7.271
6-7	W3M	1000-2359Z	5	WI	Celebrate first successful demo of telegraph – CW only 3.535, 7.035, 14.035, 14.070
8	NI6IW	1700-2359Z	2	CA	USS Nautilus 1954 – SSB only 7.250, 14.320
8	VE8SUN	1800-2359Z	10	VE & NT	Sunrise Festival – SSB only 7.250, 14.320
15	W9AML	1500-2100Z	2	IL	Central Illinois Radio Club 77 <sup>th</sup> Anniversary – 28.45, 21.35, 14.25, 7.25
29	W5B	1500-0400Z	2	TX	Anniversary of Buddy Holly's death – 18.150, 14.260, 3.860
29	KS0KS	1600-2100Z	2	KS	150 <sup>th</sup> Birthday of State of Kansas – 14.250, 7.250, 10.120
1-30	ZL50VK	0000-2400Z	25	ZL	50 <sup>th</sup> Anniversary of ZL1VK. ZL50VK will be on from 01-Jan to 30-Mar but only contacts in Jan. count for this contest. ZL50VK can be on any where and any time but you'll have to find them – that's why it's worth 25 points. Might be a good time to learn about spotting networks on the internet. Google ZL50VK for info.

So, what does all that above mean? The date, time, and call should be obvious. Those are the "targets" for our imaginary December list. Each time you contact that station, you earn the indicated points. If you worked ZL50VK once on SSB, once on CW, and once on RTTY; you would have earned 75 points. What if you work NI6IW on 20 and 40 Meters? Because it's the same mode, then there are no additional points. The Multiplier can be earned only once (for the whole year). So if you work NI6IW and WD6RAT, you can only count the CA multiplier once. The VE8SUN station is worth 2 multipliers! One for Canada and one for the Northern Territories (NT). If there is any question about the individual operation, you can go to [http://www.arrl.org/special\\_events/search](http://www.arrl.org/special_events/search) and search on Jan 1-31 2011 or on the station call sign.

Jim N7MU has said he'll be coming up with a spreadsheet to support this test. I'll try to see if it can be available by the next Club meeting. If you need to review the published rules for this Club contest, they are in the October Relay at:

([http://www.mikeandkey.org/newsletters/Relay\\_2010\\_10a.pdf](http://www.mikeandkey.org/newsletters/Relay_2010_10a.pdf))

## WANDERING – DXCC QRP

de Fred Roberts, W6TKV

A number of years ago, I was sitting in my ham shack sorting some QSL cards - and, of course, my radio was tuned to 20M. All of a sudden, an extremely loud Italian station popped up, calling CQ in some EU contest or other.

I started to reach for the power switch on my Amplifier (1500W), and then thought, "Why do I want to work another Italian station?" And then a thought came to me, and I reached for my Kenwood TS-940S and turned the power control all the way down to the stop. With that done, I called and worked that Italian station, and went on to work another 8 or 9 other EU stations. My thought, "Boy, is this great or what?" Later, my curiosity got the best of me, and a quick check told me the output power was just 4W. "Holy mackerel, that's the power level of the night light in our bathroom." Wow, what a trip for me - I had shifted gears from 1,500 Watts to 4 Watts - a 99.7% power reduction!

It's my guess that most if not all QRP activity takes place on CW. As I recall I only worked or heard just one other fellow operating QRP Phone. Of interest, the ARRL QRP Award pictures a fellow with key in hand - no mike is sight. I suspect there are very few hams who have achieved DXCC on QRP phone.

There were several amusing and interesting events during my QRP travels. Among them:

**1-** When I had worked 99 countries, I realized I not worked a single U.S. station. It seemed like a super idea for this to be Country #100. So, tuning around, I heard an east coast station calling CQ. After the usual exchange, I said, "Thanks for being my 100th country." His response was a confused, stuttering, "What do you mean?" I understood his query immediately as I doubt anyone has said, "Thank you" to any U.S. station contact we have ever used for DXCC credit - we just pick up any U.S. card from our QSL collections.

**2-** As evidence of the power of QRP, I had my beam headed north one day when I heard a weak DX station which ultimately turned into a new DX station for me. I could hear the operator was a YL, but I had a very tough time getting her call. After a number of "Again, again" calls, I finally got her call - it was a DXpedition in the PACIFIC. I had my beam off the target by 45°. Wow, 45° off and 4-W ... who would imagine a QSO was possible.

**3-** My best DX was with a station in Kerguelen Island in the Indian Ocean - which is just about on the other side of the world and earned a 1000-Mile-Per-Watt certificate - 1566 miles per watt.

My QSO routine was simple, I just made contact with no mention of "QRP", and only after I received my signal report did I mention running 4W.

*It's surprising how a single moment led to my pursuit of DX with just 4W and ending up with 135 QRP countries.*



**Tressie Hughes KC7BAL – SK**

By Alan Hughes KB7SVU



*In better times, Tressie KC7BAL (SK), left, stands with Gerhard Pantzer KC7MAK, middle, and Alan KB7SVU, right. Photo courtesy of Michael Dinkelman N7WA.*

Tressie Lee Rasmussen Hughes was born February 22, 1958 in Spokane WA. She passed away on December 4, 2010, in Puyallup, WA. This, after a year-long battle with colon cancer that had spread to the liver.

She was quite the lady from the start of her life. At 3 months old she threw her last bottle out of the car window and from then on she sat in the kitchen feeding herself. At 4 months she rolled off the couch then got up and started running and she has been on the go ever since. At 1 year old she was found on the roof top of the neighbor's house.

She went to many different schools in the Spokane area graduating from Freeman High School. There she took wood shop where she found that she had a real gift for working with her hands. She started doing her bead work by buying a book and she taught herself which started many great years of bead work.

Tressie went to Spokane Community College graduating in 1979 with a degree in drafting. She worked at Boeing for a short time. She went on a church mission to Snowflake, AZ, in the Four Corners area.

Tressie and I were married on April 6, 1991 in Puyallup and were sent to Hawaii for our honeymoon by our boss and his wife. They had us go back there for our 5-year Anniversary.

When I received my Ham Call, Tressie would always want me to pass on messages to fellow Hams that she knew. I would not always pass it on as she had stated and finally decided to get herself a Call.

After she passed the test a fellow Ham ask if she wanted to call me by radio with the news. She said no since she did not have her Call. The friend said that she could using *third-party traffic*.

Boy was she mad at me for not telling her about it before then. In the first week of her getting her Call, she had made over 200 contacts on 2-meters. Her Call Sign was **KC7BAL**, or as she would say, **BE A LADY**.

We became life members of the Radio club of Tacoma. She helped at WW2END and other special events. About 15 years ago we joined the Mike & Key Club where she again made many good friends. She always looked forward to the Flea Market and Field Day.

Tressie was one who made friends vary easily. She never asked anyone for more than she was willing to give back to the friendship. Quite often she would go out of her way to help others, expected nothing in return.

Tressie was quite the lady I will miss her and will never forget how much she helped me make it through my life.

I would like to challenge each one of you to look at the relationships you have, and whether you are the friend you need to be. Tressie was and still is. She will survive in the hearts and memories of those people she met, befriended and just allowed to get to know her. I hope each of you will not forget to thank your friends and to become a true friend like Tressie has become to many of you.

- Alan Hughes KB7SVU

**Elmer's' Corner -- By Jim Aigner N7MU**



Please visit the Elmer Wiki at <http://k7ledelmerwiki.wikispaces.com/>.

Area	Elmer Coordinator	Email	Phone	Also...
Homebrew, DX, antennas	Jeff Wandling, W7BRS	<a href="mailto:dew7brs@gmail.com">dew7brs@gmail.com</a>	206-605-2278	New Hams, satellite work
Beams and Towers	Alan Hughes, KB7SVU	<a href="mailto:kb7svu@juno.com">kb7svu@juno.com</a>	253-840-4947	Beam antennas and towers, safety
Contesting	Mike Dinkelman, N7WA	<a href="mailto:mwdink@clearwire.net">mwdink@clearwire.net</a>	253-631-3756	Contest operations
CW	Mike Dinkelman, N7WA	<a href="mailto:mwdink@clearwire.net">mwdink@clearwire.net</a>	253-631-3756	Learn CW, operating proficiency
Digital Modes	Andy Lengenfelder KE7ZGR	<a href="mailto:ke7zgr@arrl.net">ke7zgr@arrl.net</a>	425-430-1804	All digital modes, software, TNC's
D-STAR	Steve Hatch, WA7DAD	<a href="mailto:stephen@hatch.net">stephen@hatch.net</a>	206-851-8842	D-STAR technology and operation
Emergency Comm	Tim Kane, K7ANE	<a href="mailto:k7ane@arrl.net">k7ane@arrl.net</a>	206-251-7467	CERT, ARES, organizations & Eq't
HF Operation	Dale Tongue AC7NP	<a href="mailto:dale.tongue@gmail.com">dale.tongue@gmail.com</a>	425-432-4254	Eq't, Antennas, best HF operating practices
New Members	Dick Radford, WA7NIW	<a href="mailto:wa7niw@arrl.net">wa7niw@arrl.net</a>	425-828-9791	Getting started, eq't selection and operation
QRP	Frank Qualls, AB7HA	<a href="mailto:franklin_qualls@hotmail.com">franklin_qualls@hotmail.com</a>	425-802-1837	Low power operation, design & construction
VHF/UHF Operation	Dave Smith, KB7PSN	<a href="mailto:kb7psn@yahoo.com">kb7psn@yahoo.com</a>	425-235-5095	6 meters and up; radios, antennas, modes

## M&K Year-End Door Prize Showdown

By Jim Aigner N7MU, Activity Chair

Finally - the big year-end door prize drawing we've been waiting for! A year's worth of door prize tickets (2,338) will be shuffled and shuffled again just waiting to be selected as one of the four lucky tickets.

The rules for this drawing are slightly different than our regular monthly drawings.

- **First, you do not have to be present to win. Don't worry, we'll track you down if you're a winner.**
- **Second, all contestants are eligible to win only one prize regardless of how often we draw one of their tickets. There will be four different winners, one for each of the four prizes.**
- **And third, the prizes are identified as 1st, 2nd, 3rd, and 4th. But they may not be awarded in that order.**

So here's how this will work. A winner who is present can choose from the remaining unclaimed prizes regardless of the prize's designation – 1st, 2nd, etc. On the other hand, a winner who is not present will be awarded the next available prize in order. Yes, it's a little confusing, but winners who are present can choose from the available remaining prizes rather than being assigned one. I'll go over this explanation again just before the actual drawing.

So do your homework and come prepared to choose when we draw your ticket. Good luck to all of you.

Here are the prizes.

### 1<sup>st</sup> Prize: ICOM IC-2200H 2 meter FM Mobile Transceiver



*This is a great little 65 watt 2-meter FM mobile transceiver. Its features include selectable output power ranges 65w-25w-10w-5w, 207 memories including a call channel and six scanning band edges. It draws 15A at the full 65W of output power and comes with a hand microphone, mic hanger, DC power cable, and mounting bracket. When you are ready to dabble in digital voice modes, you can add an optional UT-118 board for D-STAR operation.*

[Reference: <http://www.icomamerica.com/en/products/amateur/mobile/2200h/default.aspx>].

### 2<sup>nd</sup> Prize: Yaesu FT-250R 2-meter Handheld Transceiver



*This rugged little Yaesu 2-meter handheld is a good starter radio for the new Technician. It puts out 5 watts in its HI power setting (5w-2w-1/2w) and delivers 700mW of loud audio for noisy environments. It comes with a 1400mAh battery and a handy desktop charger. It has the basic features you'd expect in a modern handheld – 209 memories, tones, repeater offsets, and direct frequency entry from the keypad. The memory system can store 209 channels with frequency, CTCSS/DCS information, repeater shift, and a 7-character alpha-numeric label to aid in channel recognition.* [Reference:

<http://www.yaesu.com/indexV5.cfm?cmd=DisplayProducts&ProdCatID=111&encProdID=13A355C2DE175553305DE961A0A053DD&DivisionID=65&isArchived=0>].

### 3<sup>rd</sup> Prize: Elecraft W2 SWR/Power Meter



*The Elecraft W2 provides fast, high brightness LED bar graphs to track the performance of your transmitter and amplifier. It's compact and can easily fit next to your transmitter or amplifier. You can use it to monitor your HF rig or your VHF/UHF station, or both. Two sensors can be connected to the device to support different power levels and different frequency ranges. This particular unit comes as a no-solder kit with a sensor supporting up to 200 watts on HF through 6 meters. I've arranged for the winner to exchange the included sensor for one that supports*

*2000 watts or a different frequency range (2 meters through 440MHz). If you win this and choose to exchange the sensor, do not open the portion of the prize that contains the sensor. A second sensor can be added to the unit at the winner's expense.* [Reference: <http://www.elecraft.com/W2/W2.htm>].

### 4<sup>th</sup> Prize: Byonics TinyTrak4 GPS Position Encoder



*The TinyTrak4 from Byonics is a GPS position encoder which replaces the need for a packet TNC and GPS in your APRS setup. This prize includes the Byonics GPS2 which can quickly acquire up to 20 satellites because of an onboard rechargeable battery. So all you need is a 2-meter radio and a cable or two. Then you can run APRS at home or operate mobile from your vehicle or boat.*

[Reference: <http://www.byonics.com/tinytrak4/>].

December 2010

**K7LED Relay**

## Pearl Harbor Attack first reported by Alaska short wave radio operator

By Heather A. Resz  
Frontiersman

Published on Tuesday, December 7, 2010 5:12 PM AKST

Though the Japanese attack on Pearl Harbor, Hawaii killed more than 2,400 people, sank the USS Arizona and marked the U.S. entry into World War II, history has all but forgotten Alaskan Augie Hiebert's unique role in the events of Dec. 7, 1941.

Hiebert's daughter Robin A. Chlupach of Willow preserved the story in her 1992 book "Airwaves over Alaska: Story of Pioneer Broadcaster Augie Hiebert." And the story is also part of the U.S. Senate Congressional record from June 26, 2003, when Hiebert's actions were commended by the U.S. Senate.

He came to Alaska in 1939 and was operating a radio station in Fairbanks for Capt. Lathrop when he heard the first report on the raid on Pearl Harbor.

"He was operating his own short-wave radio when he heard the news," his daughter said. "That's what he did every morning — he got up every morning and got on his shortwave radio."

He called the top military commander in Fairbanks and reported the radio transmission he'd heard, she said. His report was the first word military leaders in Alaska had of the attack on Pearl Harbor.

Hiebert was a pioneer in radio and television broadcasting in Alaska. He also helped to establish Alaska's first satellite station activated in 1970.

He died at the age of 90 on Sept. 13, 2007.

[Ed. Note—This article was contributed by Bill Balzarini KL7BB, member of Federal Way ARC ([www.fwarc.org](http://www.fwarc.org)).

Thanks so much Bill, for sharing this. —Gary KG7KUJ

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## M&K General Meeting Minutes

Meeting held November 20, 2010

Meeting was called to order at 1004 hours by the Vice President, Steve KD7IQL.

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.

Introductions

**Special Presentation** – Jill K7JIL, President of Radio Club of Tacoma: Bowing to dogged pursuit by Alan KB7SVU, she presented a plaque to the Club, recognizing the victory of the Mike & Key over RC Tacoma in the Field Day 2004 challenge.

**Officer Reports:**

**President** – Ivy WA7IVY: Not present.

**Secretary** – Robert KD7WNV: Mail was picked up by the Treasurer.

**Treasurer** – Dave KB7PSN: The club's books are in good order.

**Activity Manager** – Jim N7MU: Program today is to prepare mailers for the Fleamarket. For entertainment, we will watch DXpedition videos (Clipperton Island, Scarborough Reef) while doing the work. Door prizes today include an APRS kit and 8 oz. honey. This is the last month to buy door prize tickets that will be eligible for the year-end drawing at the December meeting. (Rules: You don't have to be present to win. Each person can only win one prize.)

**Chairman of the Board** – George AE7G: The Board made its first pass through preparing next year's budget, and will conclude its work at the December meeting, then present the budget for approval at the December General meeting.

**Radio Officer** – Hal N7NW: Not present. Steve KD7IQL: The repeater is functioning fine.

**Relay Editor** – Gary KG7KU: Thanked everyone for articles and contributions to the *Relay*.

**Webmaster** – Jim KD7BAT: Matt AE7MK has sent a copy of the Powerpoint presentation from his October program on APRS; it will be available on the website. The Swap page is getting widespread use, geographically. There was an ad for Motorola equipment—stored in Puget Sound, but the seller was in Florida. A Rohn tower seller was in Texas, and the buyer was from CA. Now there is a radio in France for sale. Question: Do we have a Facebook page? Dave KB7PSN says yes, we do.

Dick WA7NIW – Announced the Special People's Holiday Cruise on December 5<sup>th</sup>, encouraging anyone interested in helping with support to contact him.

George AE7G – Reminded members about the Seattle Marathon on November 28<sup>th</sup>—the biggest public service event of the year in usage of amateur radio support.

**Vice President** – Steve KD7IQL: Membership applications: Robin Carter, WA7BRI; David Tebrink, K7NZU. All approved by the membership.

**Quorum present.**

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

Michelle WA7PVE made a motion to approve the minutes; George AE7G seconded the motion. Motion passed.

**Standing Committee Reports:**

**Strategic Planning** – Daniel KL7WM: Nothing to report.

**Facilities** – Mike N7WA: Nothing to report.

**Education** – Tim K7ANE: There will be an exam-only for the ARRL Emergency Communications Course on December 1<sup>st</sup> at 6:00 PM. The fee is \$15. See Tim if interested.

**Public Service** – Robert KD7WNV: The committee met last month and began splitting up responsibility for updating sections and obtaining advertisers in the 2011 booklet. Will continue coordination by email.

**Technical** – Steve KD7IQL: Nothing to report.

**Other Committees** (as appropriate)

**VE Exams** – Scott AG7T: Combined counts for September and October: 19 persons took exams. Awarded 7 Technician, 6 General and 5 Extra.

**Flea Market** – Mike N7WA: Next meeting is Tuesday, December 14<sup>th</sup> at 7:00 PM at Mike's house.

**Field Day** – Ivy WA7IVY: The ARRL has posted results for Field Day 2010. We were 54<sup>th</sup> nationwide, 3<sup>rd</sup> in class 6A, 1<sup>st</sup> in WWA.

**By Laws Review** – Dave KB7PSN: Nothing to report.

**Christmas Party** – Mike N7WA: Tell him what you are bringing, or he can tell you what to bring.

Steve KD7IQL: Red Cross is conducting training on December 4<sup>th</sup>, see Steve if interested.

[Continued on Page 9]



December 2010

K7LED Relay

## M&K Gen'l Meeting Mins... [Cont'd from Page 8]

**Alligator Award** – Returned once again to Dean N7NKO.

**Old Business:** None

### **New Business:**

**Bell Ringing** — Jim KD7BAT: We will again do bell ringing for the Salvation Army at a couple of sites in Renton (Sam's or WalMart) on Saturday, December 11<sup>th</sup>. Signup sheets are circulating.

**Club Contest** — Mike N7WA: Fielded questions regarding the Contest warmup. The real contest will be published in the December Relay.

**Audit Committee** — Sam N7RHE: Audit committee will meet before the January General meeting.

### **Good of the Order:**

Michelle WA7PVE: Sweepstakes starts today at 1:00pm. Looking for parts for a triband quad.

James NY1R: Have a kW linear on order, with auto tuner in it, good to 3000 watts, looking for assistance in setup. Scott AG7T will help. The next Mike & Key Board meeting will be on the first Wednesday of the month, December 1<sup>st</sup> at 7:00 PM, at the Salvation Army in Renton.

The next Mike & Key General Membership meeting is the third Saturday, December 18, 2010.

Sam N7RHE made a motion to close the meeting, second by George AE7G. The motion was passed. Meeting adjourned at 1049 hours.

7 guests; 56 members, 43 ARRL members

Attested: Robert Grinnell KD7WNV, Secretary

## M&K Board Meeting Minutes

Meeting Held December 1, 2010

### Officers present

X **President** – Ivy Nelson-Groves (WA7IVY)

X **Vice President** – Steve Cook (KD7IQL)

X **Secretary** – Robert Grinnell (KD7WNV)

X **Treasurer** – Dave Smith (KB7PSN)

X **Activity Manager** – Jim Aigner (N7MU)

X **Radio Officer** – Hal Goodell (N7NW)

### Trustees present

X **No. 1** – Tim Kane (K7ANE)

X **No. 2** – George Thornton (AE7G) (CoB)

X **No. 3** – Mike Dinkleman (N7WA)

   **No. 4** – Alan Hughes (KB7SVU) – (Excused for family medical)

X **No. 5** – Daniel Stevens (KL7WM)

### Other officers (non-voting)

   **Relay Editor** – Gary Bryan (KG7KU)

   **Webmaster** – Jim Etwiler (KD7BAT)

Chairman of the Board George AE7G called the meeting to order at 1902 hours.

**Minutes:** A motion to approve the minutes of the previous board meeting was made by Dave KB7PSN, second by Jim N7MU. Motion passed.

### Officer Reports

**Chairman of the Board** – George AE7G: Nothing to report. Apologized for missing last Board meeting.

**President** – Ivy WA7IVY: Thanked Steve KD7IQL for running the November General meeting in her absence. Steve passed along the victory acknowledgement from the Radio Club of Tacoma for the Field Day 2004 challenge, presented at that meeting.

**Vice President** – Steve KD7IQL: New member applicants: Kenneth Whitman, N9PHW; Jay Walton, KE7OLG. All recommended for approval.

**Secretary** – Robert KD7WNV: The Treasurer picked up the mail, it was all for him. Mike N7WA mentioned that Jim Etwiler's mother passed away on the 23<sup>rd</sup>. Robert will send a card on behalf of the Club.

**Treasurer** – Dave KB7PSN: Distributed current budget report and planning budget (for later discussion).

**Activity Manager** – Jim N7MU: We successfully prepared the majority of Fleamarket mailers at the November meeting. The program for December will be Grant Hopper, Radio Officer of Everett ACS and Vice Director of ARRL NW Division. Gary (W7TRJ) Greve's health is improving. He may be at the December meeting, but we've made no arrangement for taping.

November was a lighter month for door prize activity. Jim has prepaid door prizes for December and January. All year-end prizes are bought. December monthly prizes include Powerpole connectors, zip cord, a crimper, ARES vests and ARES Field Manual.

**Radio Officer** – Hal N7NW: Was gone for 9 days; control operators managed the repeaters during that time. Repeater are still working, doing well. Have not heard about any power loss up there. Filed the annual Registered Agent form with the State, and provided a hardcopy to the Club Secretary for the archives.

**Relay Editor** – Gary KG7KU: Not present.

**Webmaster** – Jim KD7BAT: Not present.

### Standing Committee Reports

**Strategic Planning** – Daniel KL7WM: Working on a 40<sup>th</sup> anniversary party. Also working on a pin to sell to members for \$2 or so, commemorating the event. Will be working on the Awards banquet for March; need a chair.

**Facilities** – Mike N7WA: We are using the Salvation Army HQ for the Christmas Party this weekend. Club members will be bell ringing for Salvation Army next weekend.

**Education** – Tim K7ANE: Nothing to report.

**Public Service** – George AE7G: Robert KD7WNV will be coordinating with committee members by email regarding booklet assignments. Several members of the Club participated in supporting the Seattle Marathon last weekend.

**Technical** – Alan KB7SVU: Not present.

### Other Committee Reports

**Field Day** – Ivy WA7IVY: Will begin active planning work in January. Most of the band chairs have recommitted for 2011. Richard N7MER is co-chairing this year. Steve KD7IQL that Richard will have a Boy Scout troop (20-30 scouts) camping at the scout camp area the same weekend, so we want to plan GOTA accordingly. Tim K7ANE mentioned also tying in an educational activity and assisting the scouts with earning the Radio merit badge.

**Logo** – Jim N7MU: It turns out that our digitized version of the logo is intended for large uses, such as on the body of a shirt or vest. We will need to get the logo re-digitized for small-scale use. Jim found vendor in Covington that will do it for us for a good rate. He suggested we could digitize the pin design as a logo for clothing as well.

**Fleamarket** – Mike N7WA / Hal N7NW: Next meeting is December 14<sup>th</sup>. Didn't get much worker signup last meeting, need to emphasize it at the December General meeting. We are pretty much set on chairs; need to confirm ticket chair.

**Picnic** – Dave KB7PSN: A community programs pamphlet produced by city of Renton has the rate for using Coulon Park going up to \$100. Although it is not yet reflected on the web page, we probably will face that increase in 2011.

**By-Laws** – Dave KB7PSN: Nothing to report.

### Old Business

2011 Budget: Daniel KL7WM moved, Ivy WA7IVY seconded, that we recommend the budget, as we modify it tonight, to the membership. Discussion: Mike N7WA noted need for new coffee pot; no budget increase needed—can cover from New Equipment line. Motion passed.

### New Business

**Pins** – Jim N7MU: Jim moved, Ivy WA7IVY seconded, to authorize expenditure of \$50 to digitize the Club logo for use in small format. Motion passed.

### Good of the Order

Robert KD7WNV mentioned a repeater listing website that he just came across, [www.repeaterbook.com](http://www.repeaterbook.com), which claims to be very current, with information directly from area coordinators.

George AE7G wondered how we could increase the number of bicycle hams available for the marathon.

Jim N7MU suggested having a program on public service in the area.

Daniel KL7WM suggested sending reminders to members shortly before their licenses are due to expire, but Dave KB7PSN noted that ARRL does already provide such a service to members.

There being no further business, George AE7G adjourned the meeting at 2027 hours.

Attested: Robert Grinnell KD7WNV, Secretary

## New Arrivals at the Club Library

Tim Kane – K7ANE




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### ***Special Note for 3<sup>rd</sup> Saturday Library Activity***

***At the request of our volunteer librarian, on the Saturday mornings of our regular club meetings, books may be checked out before the meeting starts at 10am, and only until 11am. This will allow others to set up for follow-on activities without conflict in the entry foyer area, e.g. VE license testing. Your cooperation is greatly appreciated.***

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Members have several newly acquired books to check out and enjoy from the Mike & Key library.

As part of our annual efforts to expand and improve our Club library we've just obtained five great new books, suggested by various members:

- **ARRL's Low Power Communications - the Art and Science of QRP, by Rich Arland K7SZ (2009)**
- **The ARRL Handbook for Radio Communications 2010 (including the entire volume on CD-ROM)**
- **ARRL's HF Digital Handbook, by Steve Ford WB8IMY, 4<sup>th</sup> Edition (2007)**
- **ARRL's VHF Digital Handbook, by Steve Ford, 1<sup>st</sup> Edition (2008)**
- **The ARRL's General Q&A, 3<sup>rd</sup> Edition, good through June 30, 2011 (2007)**

The Low Power Communications book includes sections on equipment and station accessories, antennas, operating strategies, emergency communications, and surplus military equipment. The complete assembly manual for the MFJ Cub QRP transceiver kit is also included.

This new QRP volume was donated by a member. Donations by members are always welcome, and gratefully appreciated.

The new 2010 Handbook, now over 1,250 pages, has great new sections on digital communications technology, solid state RF power supplies, switch mode power supplies, as well as projects for antennas, solid state amplifiers, and more.

The HF Digital Handbook covers assembling your digital station, RTTY, PACTOR, PSK 31, Winlink 2000, and other topics. The VHF edition includes packet radio fundamentals, APRS, D-Star, and much more.

The General Q&A will give you the entire Element 3 question pool, to aid in your license upgrade preparation and review.

Some additional volumes, mostly older, were donated by Universal Radio. Included are:

- **Listening to Longwave – the World below 500 KHz, by Kevin Carey, 1<sup>st</sup> Edition (2007)**
- **Discover DXing!, John Zondio, 3<sup>rd</sup> Edition (2006)**
- **Joe Carr's Loop Antenna Handbook, 1<sup>st</sup> Edition, (1999)**
- **RTTY Today, by Dave Ingram K4TWJ (1983)**
- **The RTTY Listener, Issues 1-25, Editor Fred Osterman, 2<sup>nd</sup> Edition (1991)**
- **Buying a Used Shortwave Receiver, by Fred Osterman, 4<sup>th</sup> Edition (1998)**

Thanks to the tireless efforts of Toku (AD7JA), who brings the library holdings to each meeting, any of these books can be checked out at any regular Club meeting. Members can retain a book for up to a month at a time.

Or you can check them out any workday at the M&K Club library in Toku's television service shop in the Skyway neighborhood of Seattle, not far from the Club's Renton meeting site.

The library is located in Skyway Radio & TV Service, 11818 Renton Avenue South, Seattle. It's just across from the Skyway Park Bowling center. You can't miss Toku's tower and multi-band HF Yagi!

It was also suggested that the library obtain some video DVD's or tapes of DXpeditions and other Ham events. Research found that most of these videos are available for free short term loan to Clubs, for only the two-way postage.

We'll coordinate with the program chairman, and schedule some for upcoming meetings. Let us know if any DXpedition has especially caught your imagination, and we'll see what we can do.

If you want the Club to obtain other particular books or have some volumes you'd like to donate to the library, contact Tim K7ANE.

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## The Seattle Marathon – 2010 – A ‘Ham Radio’ Look Back

By Gary Bryan KG7KU

With Contributions by Gene W7AKA & Fran N7FWZ Underwood

**Are you ready to get Blown Away?** No, this is not a *PEP* talk, most Hams who helped with the 2010 Seattle Marathon use Handhelds at 5W.

Gene W7AKA saw to it that I was situated in the Net Control of Route-Part 2/NC#2-NC#4, COM vehicle, looking square at the arrivals as they enter the Final stretch at Memorial Stadium entrance and head toward the Finish Line. There, with The Seattle Center and the Space Needle in full view, it is a fitting backdrop and quite a dramatic ‘welcome’ to those finishing.

**Did I mention this is a Marathon? World-Class competitors** participate and make this truly an amazing test of endurance in the Run and Walk categories.

### Wikipedia reads as follows:

*“The Seattle Marathon is an annual marathon held in Seattle, Washington on the last Sunday in November. Currently sponsored by Amica Insurance, the marathon was established in 1970 when a group of 38 runners attempted to run the 26.2-mile challenge. Thirty-one of them managed to finish.”*

The **Seattle Marathon Association** ([www.seattlemarathon.org](http://www.seattlemarathon.org)) fills the complement of coordination with the City of Seattle, Seattle Police, Seattle Fire & Rescue mobility, UW Medical Center, Road Closures & various Public Works signage, portable toilets, as well as a seemingly endless list of Sponsors, Advertising and coordination with local Hotels to welcome the athletes visiting from out of town.

**Did I mention there were Hams in Communication support of this event?** No doubt, the most professional **volunteer communicators in the world** help in this effort as well. It could not happen without the Hams who, year after year, ply their Amateur Radio skills, abilities and knowledge.

Almost without notice, and yet everywhere along the way, is a sea of volunteer Ham Radio Operators who provide the greatest gift of all: **The Gift of Communication**.

If you were one of the Ham participants – Runner, Walker, Hams on Bicycle, Hams on Wheels, Hams on Foot, Medical/EMT, **it is time for you to take a bow**. Your gift to the City of Seattle is at once immeasurable and awesome... almost unable to be comprehended. Now, take a deep breath and brace yourself... are you ready? Here goes – check it out:

## Seattle Marathon Amateur Radio Support

Contributed by Gene W7AKA & Fran N7FWZ Underwood

11/19/2010 - 115 Hams, 14 Are On Bicycles, 11 are Ham EMT/Paramedics, 3 EMT's

<u>Position</u>	<u>Tactical Call</u>	<u>Name</u>	<u>Call</u>
*Communications /EMT Coordinators	<b>Ham Coordinators</b>	Gene Underwood Fran Underwood	W7AKA N7FWZ
*Shadow Louise Long-Race Director	<b>Race Director</b>	Gene Budbill	N7QLT
*Support John Kokes - Finish Line - In Stadium	<b>Finish Line</b>	Tom Golden	KD7UBG
*Sweep Vehicle Start Line	<b>Sweep</b>	Fran Underwood	N7FWZ
*VRA Ham Operator	<b>VRA Medical Ham Operator</b>	Dale Deering	KC7VLM
*VRA Medical	<b>VRA Medical Escort #1</b>	Carl Leon	N7KUW
*VRA Medical	<b>VRA Medical Escort #2</b>	Jim Etzweiler	KD7BAT
*Medical Tent	<b>Medical Net Control</b>	Laura Kozma	W7LMK
*Medical Tent	<b>Medical Computer/Ham</b>	Ivy Nelson-Groves	WA7IVY
*Medical Tent	<b>Medical Ham/Spokesman/Runner</b>	Curt Mills	WE7U
*VRA Timing Information	<b>Timing Information Ham</b>	Bruce Miller	KC7IAY
*SAG/APRS Team	<b>SAG/APRS Team Net Control</b>	David Flood	KD7MYC
*SAG/APRS Team	<b>SAG APRS Team Net Control</b>	Brad Estill	N7JGX
*Medical Tent Equipment Mgr	<b>Medical Tent Equipment Mgr</b>	Matt Kozma	AE7MK
*Net Control of Route Part 1	<b>NC #1</b>	Bob Golden	KA7VNK
*Net Control of Route Part 2	<b>NC #2</b>	Gene Underwood	W7AKA
*Net Control of Route Part 1	<b>NC #3</b>	John MacDuff	KA7TTY
*Net Control of Route Part 2	<b>NC #4</b>	Gary Bryan	KG7KU
*Net Control of Route Part 2	<b>NC #5</b>	Liz Budbill	N7ZHX
*Water Truck 1	<b>Water Truck # 1</b>	Jimmy Horn	KA7GKP
*Water Truck 2	<b>Water Truck # 2</b>	Dick Radford	WA7NIW
*Water Truck 3	<b>Water Truck # 3</b>	Ralph Javins	N7KGA
<b>Bike Coordinator/Bike Escort 1</b>		Mark Canizaro	KC7IEU
<b>Bike Escort 2</b>		Dave Shaw	N7JJD
<b>Bike Escort 3</b>		George Thornton	AE7G
<b>Bike Escort 4</b>		Bruce Sherman	N7EQL
<b>Bike Escort 5</b>		Nadine Webster	N7LCI
<b>Bike Escort 6</b>		Jeanette Rogers	KE7KIX
			Bike 1
			Bike 2
			Bike 3
			Bike 4
			Bike 5
			Bike 13



# December 2010 Seattle Marathon Amateur Radio Support... Continued

## K7LED Relay

<u>Location</u>	<u>Ham</u>	<u>Miles</u>	<u>Assignment</u>	<u>Tactical Call</u>
*5th Ave N. & Republican Street	N7KUW Carl Leon	0	Water Stop # 1 in Start Area	Water Stop # 1
*5th Ave N. & Vine Street	N7OXT Scott McNeill	0.1	Safety - SAG	5th & Vine - SAG 10
*5th and Blanchard St.	N7OYD Darren Emmons	0.2	Safety > SAG	5th and Blanchard > SAG 2
*5th Ave N. & Stewart	KC7IYE Adrian Jones	0.4	Safety > SAG	5th & Stewart > SAG 1
*5th Ave. N. & Pine Street	KE7CFR Don Eager	0.5	Safety	5th & Pine
*5th Ave N. & Pike	KD7WNV Robert Grinnell	0.8	Safety > SAG	5th & Pike > SAG 3
*5th Ave N. & University	N9SX Eric Anderson	1.1	Safety > SAG	5th & University > SAG 4
*5th Ave N. & Madison Street	AC7VL John Wruble	1.3	Safety > SAG	5th & Madison > SAG 5
*5th Ave. N. & Columbia Street	KE7LLC John Livingstone	1.4	Safety	5th & Columbia
5th Ave & Jefferson Street	KC7ADK Connie Winter	1.6	Safety	5th & Jefferson
*5th Ave N. & Yestler Street	KD7YEB Kevin Kutzera	1.7	Safety > SAG	5th & Yesler > SAG 6
*5th Ave S. & S. King Street	N9VW Steve Van Wambeck	2	Water Stop # 2 / > SAG	Water Stop #2 > SAG 7
*5th Ave S. & Dearborn – Entrance to I-90 Express Lanes	KA7YER Mitch Winter	2.4	Monitor Traffic Going into Express Lane	5th & Dearborn > SAG 8
*I-90 Express Lane .8M E. of Dearborn	KC7IEU Mark Canizaro	3	Safety - On Bicycle	Mile 3 Bike 1
*West End Of Mt Baker Tunnel	K7FNS Frank Sebastian	3.8	Water Stop # 3	Water Stop #3
*Inside of I-90 Tunnel	N6OBY Mark McClain	4	Safety	Mile 4
*East End of Mt. Baker Tunnel	KC7EVE Jon Mercer	4.5	Safety > SAG	Mile 4.5, > SAG 9
*Turnaround Point On M.I. in Tunnel	KG7MX Michael Hansen	6 / 6.5	Water Stop # 4	Water Stop # 4
*Mercer Island Floating Bridge	WB7TOI Joe Basta	7	Bicycle Ham - EMT	Bike 6
*36th Ave S. & S. Day Street	KE7AQX Beth Altabef	8.5	Water Stop # 5	Water Stop # 5
*36th Ave S. & S. Day Street	EMT Sarah Stewart	8.5	Safety EMT	Water Stop # 5
*Lake Wash. Blvd. S. & 49th Ave S.	KB4ERF Dave Mackin	10	Safety	Mile 10
*Lake Wash. Blvd. S. & 51st Street	KE7ODS Kerry Field	10.3	Safety	Mile 10.3
*3000 Block of Lk.Washington Blvd.S.	K7GLM Greg McConaughey	10.4	Safety	Mile 10.4
*Lake Wash. Blvd. S. & 5000 Blk. S.	KB7URF Tom Walker	11	Safety EMT	Mile 11
*Lk. Wash. Blvd. S. & S. Dawson Street	KE7VCU Elliot Wilcock	11.6	Safety	Mile 11.6
*Seward Park South Parking Lot	W0NFU Larry Winslow	11.8	Water Stop #7	Water Stop # 7
*Seward Park Loop	KE7YJV Paul Morris	12	Safety EMT	Mile 12
*Seward Park .2m to .7m from S. Parking Lot	N7JLG Ken Yu	12 20K	On Bicycle > Bike Escort	Seward Park # 1 > Bike 7
*Seward Park 1.3m from S. Parking Lot	KC7KBM Leslie Jacobs	13 13.1	On Bicycle > Bike Escort	Seward Park # 2 > Bike 8
*Seward Park North Parking Lot	W7Vfq John Berkman	14	Water Stop #8	WS #8
*Seward Park North Parking Lot	K8DN Bob McLaughlin	14	Medical Unit Support	WS #8 - S
*Seward Park North Parking Lot	N7TPM John Slomnicki	14	Shoreline Comm Van	Comm Van
*Lake Washington Blvd S. & Genesee	W7TXN John Monroe	14		
*Lake Wash. Blvd. S. & 45th Ave S.	KE7IBM Gail Coburn	14		
*Lake Wash. Blvd. S. & 45th Ave S.	AE7G George Thornton	15	Safety on Bike	Mile 15 Bike 3
*Lake Wash. Blvd. S. & 45th Ave S.	W7PNW Gerard Duguay	15.3	Water Stop # 6	Water Stop # 6
*Lake Wash. Blvd. S. & 43rd Ave S.	W7WMH Mark Hagler	15.3	Medical Unit Support	WS #6 - S
Lake Wash. Blvd. S. & S. Horton Street	W7YDD Garrett Duguay	16	Safety	Mile 16
*Lk Wash. Blvd S. & Lk Park Dr. S	K7MHL Mike Hlavaty-LaPosa	16.5	Safety	Mile 16.5
*Lakeside Ave. S. Under I-90	KE7PWL Tom Early	17	Safety	Mile 17
*Lakeside Ave. S. Under I-90	N7GZR Rich Collingwood	H4.5/17.5	Water Stop # 9	Water Stop # 9
*Lakeside Ave. S. & S. King Street	EMT Chris Paulsen	H4.5/17.5		W S # 9 - M
*Lakeside Ave. S. & S. King Street	K7MR Gordy Sherrill	H5 / 18	Safety	Mile 18
*Lakeside Ave & S. Main Street	KE7KFN Rosemary Traylor	H5.3/18.3	Safety	Mile 18.3
*Lakeside Ave. & E. Alder Street	KE7KFM Elizabeth Traylor	H5.5/18.5	Safety	Mile 18.5
*Lakeside Ave. & Fullerton Ave.	KF7MUD Kathleen Weiss	H5.7 / 18.7	Safety	Mile 18.7
*Leschi Park	WA7PML Terry Barham	30K H6 / 19	Lake Wash. Blvd. E. & S. of Madrona	30K

# December 2010 Seattle Marathon Amateur Radio Support... Concluded

**K7LED Relay**

*Lake Wash. Blvd. E. & E. Alder	WV7R Allan L. Kush	H5.5 / 18.6	Water Stop #10	<b>Water Stop # 10</b>
*Lake Wash. Blvd. E. & E. Alder	KB7TBF Rick Hodges	H5.5 / 18.6	Medical Unit Support	<b>W S # 10 - S</b>
*E. Lk. Wash. Blvd. & E. Howell	W7CEB Charles Beckmeier	H6.2 / 19.3	Safety	<b>Lk. Wash. &amp; Howell</b>
*Lk. Wash. Blvd. E & E. Denny Blaine	K9RMA Chris Terpstra	H6.8 / 19.8	Safety EMT	<b>Water Stop # 11 Bike 10</b>
*McGilvra Blvd. E. & E. Gaylor	KA7TRK Tom Killion	H7.5 / 20.5	Safety	<b>Mile 20.5 Bike 11</b>
*McGilvra Blvd E. & 39 <sup>th</sup> Ave. E.	KD7KSH Candi Barker	H7.2 / 20.2	Safety	<b>Mile 20.2</b>
*McGilvra & E. Lee Street	KC7IFI Mike Kelly	H7.5 / 20.5	Safety	<b>Mile 20.5</b>
*McGilvra & E. Lee Street	KC7LEM Tim Farnan	H7.5 / 20.5	Paramedic	<b>Mile 20.5</b>
*E. Galer Street & E. Madison St.	KF7DNM David Kentala	H7.7 / 20.7	Safety	<b>Mile 20.7</b>
*E. Madison & 36th Ave E.	N7BOF Tex Fancier	H7.8 / 20.9	Safety - Broadmoor Security	<b>Broadmoor Security</b>
*E. Madison St. between 33 & 34th Ave. E.	N7WHD Kristin Terpstra	H8 / 21	Water Stop #12	<b>Water Stop # 12</b>
*E. Madison St. between 33 & 34th Ave. E.	KF7IQO Kyle Hall	H8 / 21	Medical Unit Support	<b>W S # 12 - S</b>
*E. Madison St. & Lake Wash. Blvd.	KD7JKT Jim Smith	H8.3 / 21.3	Safety	<b>Mile 21.3</b>
*1100 Block of Lk. Wash. Blvd.E	KE7PYI Dennis Lone	H8.4 / 21.4	Safety	<b>Mile 21.4</b>
*Lk. Wash. Blvd.E. & E. Interlaken Blvd	KC7RWT Ron Zuber	H8.5 / 21.5	Safety - Monitor Turn to Interlaken	<b>Mile 21.5</b>
*E. Interlaken Blvd. & 26th Ave E.	K7UW Bob Phelps	H8.7 / 21.7	Water Stop #13	<b>Water Stop # 13</b>
*E. Interlaken Blvd. & 26th Ave E	WA7RLW Richard Waymire	H8.7 / 21.7	Safety EMT	<b>W S # 13 - M</b>
*2100 Block of E Interlaken Blvd	K7KJB Kathy Brasch	H9.2 / 22.2	Safety	<b>Mile 22.2</b>
*Arboretum & E. Interlaken Blvd. Area	K7RWB Rowland Brasch	H9.5 / 22.5	Arboretum	<b>Mile 22.5</b>
*1600 Block of E Interlaken Blvd	KE7DXY Jan Bromberg	H9.7 / 22.7	Safety	<b>Mile 22.7</b>
*Interlaken Park @ 1:30PM Relieved By KE7KIX Jeanette Rogers	N7LCI Nadine Webster		Safety on Bike	<b>Interlaken Park 1</b>
*1354 E. Interlaken Blvd.	K7JJD Jannette Douglas	H10 / 23	1354 E. Interlaken Blvd.	<b>Mile 23</b>
*2450 Block of Delmar Dr E.	KE7EOG David Talkington	H10.2/23.2	Safety	<b>Mile 23.2</b>
*E. Roanoke & Delmar Dr. E.	W1JDB Jon Bromberg	H10.3 / 23.3	Safety	<b>Water Stop # 14</b>
*E. Roanoke & Delmar Dr. E.	KR7JWL Jerry Lemon	H10.3 / 23.3	Medical Unit Support	<b>W S # 14</b>
*E. Roanoke Street & Broadway E.	KE7YFO Shawn Wagner	H10.5/23.5	Safety EMT	<b>Mile 23.5</b>
*Boylston Ave E. & E. Roanoke Street	KE7VMW Jeff Ruthford	H 10.6/23.6	Safety > Bike Escort	<b>Bike 12</b>
*2300 Block of Boyalston Ave E.	KF7FEL James Willis	H 10.8/23.8	Safety EMT	<b>Mile 23.8</b>
*Boylston Ave E. & E. Newton St.	KB7LYD John Angel	H11 / 24	Safety	<b>Mile 24</b>
*Roam on Lakeview Blvd E.	AE7MK Matt Kozma	24 - 25	Safety Paramedic On Bicycle	<b>Mile 24 - 25 Bike 14</b>
*1500 Block of Lakeview Blvd. E.	KB7MXX Dwain Cochron	H 11.4/24.4	Safety	<b>Mile 24.4</b>
*1050 Block of Lakeview Blvd. E.	KF7BYP Michelle Cochron	H 11.5 / 24.5	Safety	<b>Mile 24.5</b>
*Boylston & Lakeview Ave.	KE7UUU Bob Rutherford	H11.6/24.6	Safety	<b>Boylston &amp; Lakeview</b>
*Near the I-5 Flyover Eastlake Ave. E. & Roy Street	N0YC Ted Boessenroth	H11.6 / 24.7 / 40K	Safety	<b>40K</b>
*Lakeview Ave. & Belmont Ave E.	N7AIR Bob Birkner	H12 / 25	Safety	<b>Mile 25</b>
*800 Block of Eastlake Ave. E	KD7VHD John Hansen	H 12.1 / 25.1	Safety	<b>Mile 25.1</b>
*Eastlake Ave & Republican Street	KE7WYO Doug Rutherford	H 12.2/25.2	Safety	<b>Eastlake &amp; Republican</b>
*Republican Street & Terry Ave N.	N7UK Kirk Bellar	H12.5 / 25.5	Safety	<b>Water Stop # 15</b>
Republican Street & Terry Ave N.	KF7GGL Ricardo Mendes	H12.5 / 25.5	Medical Unit Support	<b>W S # 15 - S</b>
*Republican Street & Dexter Street	WTOF Gerard Hickey	H12.7 / 25.7	Safety	<b>Republican &amp; Dexter</b>
*Republican Street & Dexter Ave	KA7CSE Mike Hansow	H 12.8 / 25.8	Safety	<b>Mile 25.8</b>
*Mercer Street & Dexter Ave	KF7GKX Robert Harshman	H12.8 / 25.8	Safety	<b>Mercer &amp; Dexter</b>
*6 <sup>th</sup> Ave N. & Mercer Street	KC7BYJ Lisa Lewis	H 12.9 / 25.9	Safety	<b>Mile 25.9</b>
*5 <sup>th</sup> Ave E. & Mercer Street	KD7IBU Bob Tompkins	H13 / 26	Safety	<b>Mile 26</b>
*Mercer Street & 4 <sup>th</sup> Ave N.	KE7HAT Cathy Heidner	H13.1 / 26.1	Safety - EMT	<b>Mile 26.1</b>
*Republican St & 4 <sup>th</sup> Ave N.	KE7HMS Bill Hurt	H13.15 / 26.15	Safety	<b>Mile 26.15</b>
<b>Hams Not Located:</b>	125 Lisa Sandoval KE7QAJ			

**[Ed. Note—It should be obvious that much preparation & planning is required to make this happen. When you see Gene W7AKA or Fran N7WFZ, be sure to say 'Thanks.' As well, prepare and plan to help out next year. Get ready, get set, go! —Gary KG7KU.]**

# 2010 -- Ham Nets & Events -- DECEMBER / JANUARY

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<b>12</b> 1915 -- Kids Net 145.49 (Weekly) 2000 -- King Co. ARES Net 147.08 (Weekly) 2030 -- Snohomish Co. ARES Net 146.92 (Weekly)	<b>13</b> 0545 & 1645 --Weather Net 145.33 (M-F) 1730 -- Puget Sound Traffic System Net 146.82 (Daily) 1800 -- WA Emerg. HF Net 3.985 (Weekly)	<b>14</b> 2000 -- Seattle Red Cross Communica- tions Team Net (Includes Elmer's Corner) 147.080 (Weekly)	<b>15</b> 2000 --General/Tech Information Net 145.33 (Weekly) 2000 -- Educational Radio Net -- PSRG 146.96 (Weekly) 2000 -- HARC CW Net 28.055 (Weekly)	<b>16</b> 1900 -- M&K Public Service Net 146.82 (Weekly) 2000 -- Computer & Packet Net 145.33 (Weekly)	<b>17</b> 2000 -- Youth Net 145.33 (Weekly)	<b>18</b> <b>1000 -- M&amp;K Club            Meeting, Renton            1230 -- M&amp;K Ham            Radio Exams,            Renton. Contact:            Scott- <a href="mailto:agZt@arrl.net">agZt@arrl.net</a></b>
<b>19</b> 2100 -- LDS Net 146.82 (Weekly) 2200 -- NW Astronomy Net 145.33 (Weekly)	<b>20</b> 1830 -- WA ARES Net 3.985 (Weekly) 1900 -- Seattle ACS Net 146.90 (Weekly) 1930 -- PSRG Net 146.96 (Weekly)	<b>21</b> 2000 -- Snohomish Co. RACES Net 146.92 (Weekly)	<b>22</b> 2100 -- NWSOAR Net 146.82 (Weekly)	<b>23</b>	<b>24</b>	<b>25</b> 0900 -- WA ARES HF Net 3.985 (Weekly) 2000 -- Amateur TV Net 147.08 (Weekly) 2000 -- HARC CW Net 28.055 (Weekly)
<b>26</b>	<b>27</b> 2000 -- YL Net 145.33 (Weekly)	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>	<b>01</b> <b>-JANUARY-</b> <b>Happy            New Year!</b>
<b>02</b>	<b>03</b>	<b>04</b>	<b>05</b> <b>M&amp;K Board Mtg</b> <b>Salvation Army Bldg,</b> <b>Renton, 7pm</b> <b>(Subject to change)</b>	<b>06</b>	<b>07</b> <b>Relay Articles</b> <b>Due</b> <b>23:59:59</b>	<b>08</b>
<b>09</b>	<b>10</b>	<b>11</b> <b>M&amp;K FleaMarket</b> <b>Meeting</b> <b>7pm - Mike NTWA'S</b> <b>House - (22222 148<sup>th</sup></b> <b>Ave SE Kent, 98042)</b> <b><a href="mailto:ntwa@arrl.net">ntwa@arrl.net</a></b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b> <b>1000 -- M&amp;K Club</b> <b>Meeting, Renton</b> <b>1230 -- M&amp;K Ham</b> <b>Radio Exams,</b> <b>Renton. Contact:</b> <b>Scott- <a href="mailto:agZt@arrl.net">agZt@arrl.net</a></b>