



From our Club President...

### Focusing Ahead This Fall

By Robert Grinnell KD7WNV, President

I want to thank Dick WA7NIW for presiding at the September meeting. I was up north for the Salmon Run with Tim K7ANE, activating Whatcom County (which surprisingly became a "rare" county with the 2011 Run). You can read about our adventure elsewhere in this issue.

As I write this, our incredible run of sunshine and dry days has ended, and the rain—even more capable of interminable runs—has returned. Though our summer activities have come to a close, the fall brings with it a number of activities, as well as planning and preparation for our biggest operations, reaching into next year:

- *The biggest public service event of the year, the Seattle Marathon, is coming up on the Sunday after Thanksgiving. I think it used over 100 hams last year. Fran N7FWZ will be coordinating. Please sign up if you can help.*
- *The Public Service Committee needs to begin work on next year's Guide booklet. We particularly need to explore options for printing if we maintain the extra pages added with this year's booklet. The committee will meet following the October general membership meeting, as usual, at the Cedar River Smokehouse.*
- *The Board will begin discussion of the 2013 budget at its November meeting. If you have input, please pass it along to a Board member or come to the meeting.*
- *If we are going to have a Holiday Party, we need to have someone volunteer this month to chair the event. It would be very helpful if a few people stepped forward to help, to ease the burden on the chair.*
- *Also in December, we traditionally help out the Salvation Army with bell ringing at couple locations, on the first or second Saturday. This helps maintain our relationship with the Salvation Army, and helps keep our meeting hall rent low.*
- *Fleamarket organizing meetings have already begun.*
- *Ivy WA7IVY took care of reserving the Wagon Wheel at Ft. Flagler for next year's Field Day. We continue to look for an enclosed facility where we could work on the trailers over the course of some weeks. If you know of such, please contact Ivy WA7IVY.*

### Seattle Marathon 2012

By Fran Underwood N7FWZ

Once again, it is that season of pumpkins, ghosts, and trick or treat, followed closely by the best of all holidays, Thanksgiving. Of course, on the Sunday following, November 25<sup>th</sup>, a whole bunch of runners decide to run off their huge thanksgiving feast by participating in a short 26.2 mile marathon in Seattle.

They can either walk or run the course and burn up all the extra calories they consumed on Thursday.

As you know we try to provide an electronic security blanket around the course, just in case they have a need for our services. Many hams are needed for this event and you are invited to join our group and come out for this annual burning of the calories. Of course we don't have to run, just sit in our lawn chair wrapped up in a blanket and some hot chocolate and a hand held and watch this great parade go by. Report any problems and cheer on the runners.

***I cannot promise good weather, but I will try.***

Training meetings and packet pick-up will be held the weekend before at my home. Please sign-up by sending your response to [w7aka@comcast.net](mailto:w7aka@comcast.net) as soon as possible with your name, call sign, and email address, so I can get you on my assignment sheet and send you the times for training sessions. Krispy Kremes and apple cider will be served as usual. Fran, N7FWZ

### IN THIS ISSUE:

<b>From our Club President – Robert KD7WNV</b>	<b>1</b>
<b>Seattle Marathon 2012 – Fran N7FWZ</b>	<b>1</b>
<b>M&amp;K Club Contact Information – K7LED</b>	<b>2</b>
<b>M&amp;K October Activities – George AE7G</b>	<b>3</b>
<b>M&amp;K October Door Prizes – Jim N7MU</b>	<b>3</b>
<b>M&amp;K Fleamarket 2012 – Mike N7WA</b>	<b>3</b>
<b>M&amp;K Radio Officer Report – Hal N7NW</b>	<b>4</b>
<b>Celebrate Our October Members – Dave KB7PSN</b>	<b>4</b>
<b>Email Received... MESH Wiki – Bill KL7BB</b>	<b>4</b>
<b>M&amp;K-ARC Elmer Contacts – Jim N7MU</b>	<b>4</b>
<b>HSMM-MESH is Real Deal – George AE7G</b>	<b>5</b>
<b>M&amp;K FM'13: 'VolunteerSpot' Signup – Mike N7WA</b>	<b>6</b>
<b>Contest: Salmon Run / W7A – Mike W7XTZ</b>	<b>7</b>
<b>Contest: Salmon Run / N7WA – Mike N7WA</b>	<b>7</b>
<b>Seattle Marathon(Invitation) – Fran N7FWZ</b>	<b>9</b>
<b>PNW – Hamfairs &amp; Events – N7CFO on Web</b>	<b>10</b>
<b>Ham Workshops/Classes – Bill KL7BB</b>	<b>10</b>
<b>M&amp;K Sept. General Mtg Minutes– Ivy WA7IVY</b>	<b>11</b>
<b>M&amp;K October Board Mtg Minutes – Ivy WA7IVY</b>	<b>12</b>
<b>M&amp;K Reference Lending Library – Tim K7ANE</b>	<b>13</b>
<b>Ham Radio Nets &amp; Events – October/November</b>	<b>14</b>



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>	Robert Grinnell	KD7WNV	r-grinnell @ comcast.net	425-398-1466
<b>Vice President</b>	Kathy Martin	KB7QMO	klsmartin1 @ gmail.com	253-631-5370
<b>Secretary</b>	Ivy Nelson-Groves	WA7IVY	ivy @ wa7ivy.com	425-269-3259
<b>Treasurer</b>	Dave Smith	KB7PSN	kb7psn @ yahoo.com	425-235-5095
<b>Activity Mgr</b>	George Thornton	AE7G	GTLAW @ seanet.com	206-920-7072
<b>Radio Officer</b>	Hal Goodell	N7NW	n7nw.hal @ comcast.net	253-549-4178
<b>Trustees --</b>				
<b>No. 1</b>	Michael Dinkelman	N7WA	n7wa @ arrl.net	253-631-3756
<b>No. 2</b>	Kathleen Weiss	KF7MUD	kf7mud @ live.com	425-283-6545
<b>No. 3 (CoB)</b>	Tim Kane	K7ANE	k7ane @ arrl.net	206-251-7467
<b>No. 4</b>	Gil Drynan	W7GIL	gild @ seanet.com	425-392-1668
<b>No. 5</b>	Daniel Stevens	KL7WM	KL7WM @ arrl.net	206-228-9274
<b>VE Testing</b>	Scott Robinson	AG7T	ag7t @ arrl.net	425-788-0452
<b>Logo Committee</b>	Jim Aigner Dan Humphrey & Dawn Humphrey	N7MU N7QHC KC7YYB	jimaigner @ comcast.net n7qhc @ arrl.net	253-630-2752 206-243-0163
<b>Club Library</b>	'Toku' Okumura	AD7JA	tokuzo_okumura @ msn.com	206-772-2450
<b>Webmaster</b>	Jim Etwiler	KD7BAT	kd7bat @ arrl.net	425-788-7887

### ***Mike & Key Online – The following Club resources are available:***

**On the Web** – The Club's site at [www.mikeandkey.org](http://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, visit: <http://groups.yahoo.com/groups/mkarc>.

**E-Relay** – Help the Club save on printing and postage, Email the *Relay* Editor: kg7ku @ arrl.net.

## M&K Club - October Activities

By George Thornton AE7G, Activity Manager

### **SOUTH OF SIXTY SOUTH DXPEDITION COMES TO M&K**

We are able to confirm that the October meeting will feature an excellent presentation on the South of Sixty South DXpedition to the South Orkneys.

Where? What?

Imagine a DXpedition to one of the most remote and inaccessible locations on the planet. You can't fly there. There is no local "candy store" where you can pick up the cables, mikes or keyers you forgot. No nearby restaurant for a casual breakfast. No grocery store. No coffee stand.

The only way to get there is to pack up everything you need onto pallets, ship the pallets and yourselves to Patagonia. There you board a ship. The ship takes you across the nastiest ocean passage on earth, the dreaded Drake's Passage around Cape Horn.

Nobody lives where you are going. There are no buildings, no cabins, no supplies of any type. You have to pick your way through icebergs to find a beach landing.

We want to welcome Mike Mraz N6MZ who will present an interesting video of the VP8ORK DXpedition to the South Orkneys in Antarctica. This DXpedition is also known as South of Sixty South, and was featured in a recent QST article.

### **MOONBOUNCE AND METEOR SCATTER IN NOVEMBER**

We will continue with the Extreme Radio Sport theme in November. The focus will be on Moonbounce and Meteor Scatter propagation. Our speaker will be our own Hal Goodell.

### **YEAREND PRIZE FINALIZED**

Our year-end prize will be the Elecraft KX3 HF transceiver. Elecraft has generously extended a discount to us, so we have used the extra buying power to add some extras. This unit will include the internal auto tuner and mobile hand microphone.

The KX3 is one of the most innovative HF receivers to hit the market in recent memory. The radio is uniquely small (fits in the palm of the hand) yet it has many of the features available in the biggest high-end base station rigs.

Sherwood Engineering tracks receiver performance for amateur rigs. Currently Sherwood Engineering ranks the KX3 as the #1 amateur receiver on the market. That is right, a receiver that fits in the palm of your hand that will outperform any other amateur HF receiver being made.

All tickets purchased during the year are eligible for the year end drawing. This includes tickets purchased at the October and November meetings.

The KX3 comes in both kit and assembled form. We have chosen the kit form to save costs. If you are uncomfortable with assembly we will take care of it for you.

## M&K October Door Prizes

Prize List & Photo By Jim Aigner N7MU

### **Here's the line-up for October door prizes:**

- Radio Shack SWR / Power Tester (used)
- ETON Microlink FR160 Outdoor Radio AM/FM/NOAA USB Charger, Solar or Crank Powered
- Survivor Dry Box
- 6 Pack Parts Organizer Bins
- 5.0 Volt 200mA Monocrystalline Solar Cell
- 10 LED Headlamp
- Package of 10 pair of 30A Anderson PowerPoles
- 16GB USB Flash Memory Stick
- DC Power 15/30A Powerpole Crimper (used)



## M&K Fleamarket 2013

By Michael Dinkelman N7WA

The planning for the 2013 Fleamarket began on October 9<sup>th</sup>. At this point, the Chairpersons are as follows. Facilities and Event Chair is Hal N7NW. Treasurer is Dave KB7PSN. Registration is Diane KB7DNE. Security is Alan KB7SVU. Announcing is Ivy WA7IVY. Loading Dock is Gary KG7KU. Tickets are Kathleen KF7MUD. VE exams are Scott AG7T. Publicity is Mike N7WA. Hospitality is WB7AYU Country Store is Dale AC7NP. Kathleen is also looking for a person to help her run tickets – it goes a lot easier if there are two people.

The event itself is scheduled for March 9<sup>th</sup> and setup is March 8<sup>th</sup>. Prices remain unchanged and we have received ARRL sanctioning.

By the end of October, flyers will be going out to last year's vendors and labels are being ordered from the ARRL. The main group of flyers will be printed and we will have another envelope stuffing session at the November meeting.

Several new items came up for discussion. We are discussing the possibility of taking credit cards at the ticket gate using a wireless device. This would be a separate process from the normal ticket selling routine and none of the ticket booths would be affected or be taking credit cards.

We also discussed the possibility of allowing payments by PayPal in some areas (not the tickets). No decision has been made.

Finally, we will be **trying out a new system for worker signups using an online Web site (VolunteerSpot.com)**. There should be another article in this Relay to explain that process and we'll have a demo at the Club meeting [see page 6].

**The next Fleamarket meeting will be the second Tuesday in December.**



## M&K Radio Officer Report

By Hal Goodell N7NW

Well as most of you are aware, our 2 meter repeater is having some difficulties. On Friday, Sept. 28<sup>th</sup>, there was a power outage on East Tiger Mountain. Our repeater went on back up power and operated normally for several hours. However when power was restored, there were apparently some power surges. Our repeater did not come back on the air. Investigations over the weekend revealed what looked like a power supply problem with our Motorola MTR2000. Our backup ICOM repeater was installed on Monday, Oct. 1<sup>st</sup>, while we looked into the options for repair of the MTR2000.

The ICOM operated pretty well until Wednesday, when it too had a problem. Greg Krantz, NF6C, kindly offered the loan of a MSR5000 repeater until we could get our MTR2000 repaired. The MSF5000 was setup and installed on Sunday Oct. 7th. The MSF5000 is operating quite well and we are thankful for the loan from Greg.

The MSF5000 does have some different operating qualities from our repeater. We are not using a separate controller so there is no courtesy tone and the repeater activation is about 1 second after you key up. So remember to key first, wait a bit then talk. We will all hear you that way.

We are working to get the MTR2000 repaired and hopefully we will have it back in operation in about 2 weeks. Thanks to everyone for your patience. I guess it's better to have a problem now than during the winter months. Hi

The ICOM has been repaired, just a simple part failure. It is operating on the bench and will continue to burn in there. No plans at the present to put it back on E. Tiger as the MSF5000 is working really well.

Remember all, the 220 repeater is up and operating normally. It is a lonely repeater. Hi A really good place to go to have longer ragchews. 224.12 output 222.52 input with 103.5 tone. Thanks all for now.

- Hal Goodell, N7NW

## Let's Celebrate Our October Members!

By Dave Smith KB7PSN, Treasurer

As of October 2012, these have been Mike & Key members for the number of years stated. Congratulations to all of you, and thanks for your participation & service.

**Each of you makes us who we are:**

<b>Pete Hedberg</b>	<b>K7WTG</b>	<b>42 Years</b>
<b>Charles Stroehler</b>	<b>WA7EBH</b>	<b>42 Years</b>
<b>Jim Christiansen</b>	<b>K7ND</b>	<b>40 Years</b>
<b>Prahlad Ayengar</b>	<b>KB7AFS</b>	<b>25 Years</b>
<b>Diane Dinkelman</b>	<b>KB7DNE</b>	<b>20 Years</b>
<b>Brenda Doss</b>	<b>* No Call *</b>	<b>16 Years</b>
<b>Rita Danielson</b>	<b>KD7CNU</b>	<b>14 Years</b>
<b>Darrell Plank</b>	<b>WB7BSP</b>	<b>14 Years</b>
<b>David Mitchell</b>	<b>WA7DTM</b>	<b>12 Years</b>
<b>Greg Pietrucha</b>	<b>W7HRC</b>	<b>12 Years</b>
<b>William Harris</b>	<b>W7KXB</b>	<b>7 Years</b>
<b>Toku Okumura</b>	<b>AD7JA</b>	<b>6 Years</b>
<b>Erik Friele</b>	<b>KE7UYC</b>	<b>4 Years</b>
<b>Roy Heimes</b>	<b>N7AVN</b>	<b>3 Years</b>
<b>Russell Ralph</b>	<b>KF7AQR</b>	<b>3 Years</b>
<b>Marshall McKinney</b>	<b>KF7EHA</b>	<b>2 Years</b>
<b>Ted VanTuyl</b>	<b>N7HKL</b>	<b>2 Years</b>
<b>Chuck Burgess</b>	<b>KF6TWK</b>	<b>1 Year</b>
<b>Curtiss Hedges</b>	<b>KF7LZG</b>	<b>1 Year</b>
<b>Aaron Täht</b>	<b>N7FSM</b>	<b>1 Year</b>

### Email Received... MESH Wiki

To All 10-08-2012

For those who missed MESH DAY at the Annex Bldg. in Downtown Auburn, WA, Brian KY9K has created a HSM-MESH YahooGroup for discussion and hosting the firmware files. This will fill in until a wiki is setup.

<http://groups.yahoo.com/group/NW-MESH>

-Brian/KY9K

--73 de Bill [KL7BB@Yahoo.com](mailto:KL7BB@Yahoo.com) 206-400-1723

### Mike & Key ARC – Elmer Contacts – By Jim Aigner N7MU

Area	Elmer Coordinator	Email	Phone	Also...
<b>Beams and Towers</b>	Alan Hughes, KB7SVU	<a href="mailto:kb7svu@juno.com">kb7svu@juno.com</a>	253-840-4947	Beam antennas and towers, safety
<b>Contesting</b>	Mike Dinkelman, N7WA	<a href="mailto:mwdink@clearwire.net">mwdink@clearwire.net</a>	253-631-3756	Contest operations
<b>CW</b>	Mike Dinkelman, N7WA	<a href="mailto:mwdink@clearwire.net">mwdink@clearwire.net</a>	253-631-3756	Learn CW, operating proficiency
<b>Digital Modes</b>	Earl Palmer, N7EP	<a href="mailto:earl_palmer@msn.com">earl_palmer@msn.com</a>	206-818-9246	Digital modes, software, TNC's
<b>Emergency Comm</b>	Tim Kane, K7ANE	<a href="mailto:k7ane@arrl.net">k7ane@arrl.net</a>	206-251-7467	CERT, ARES, organizations & Eq't
<b>HF Operation</b>	Dale Tongue AC7NP	<a href="mailto:dale.tongue@gmail.com">dale.tongue@gmail.com</a>	253-948-6089	Eq't, Antennas, best HF operating practices
<b>New Members</b>	Dick Radford, WA7NIW	<a href="mailto:wa7niw@arrl.net">wa7niw@arrl.net</a>	425-828-9791	Getting started, Eq't selection and operation
<b>QRP</b>	Frank Qualls, AB7HA	<a href="mailto:franklin_qualls@hotmail.com">franklin_qualls@hotmail.com</a>	425-802-1837	Low power operation, design & construction

## **HSMM-MESH is the Real Deal**

By George Thornton AE7G

### **Huge potential for Emergency Communications**

***Last weekend I sat through a workshop on HSMM-MESH. I am now a true believer. I think it is the best thing to come along for emergency communications in the past decade.***

Let me set the stage. All of us who have been involved in emergency communication training have worked at least one and probably many emergency drills. The drills give us a taste of what it would be like in a genuine emergency, where generated power, telephone service and the internet are out. The damage can be widespread and the need for emergency support huge.

We have proven that HAMS are self-sufficient and can quickly set up functioning radio communication networks. We have even worked out programs and equipment that would allow for low speed data communications under emergency conditions.

We also know from our drills that the need for services can overwhelm the capacity of radio communication networks to deal with the extent of the need and mobilize available support. We nevertheless move forward with what we have.

But imagine what it would be like if we were able to immediately provide robust, reliable high speed wireless internet access throughout the emergency zone. Imagine how much easier it would be for all the emergency responders. Phone service could be restored using VOIP technology. Email would work. Data files could be sent and received. Want a meeting? Set up a video conference on a laptop. Want to see what is going on? We will send you a picture. Or maybe even live video feed of the disaster site.

Emergency responders with access privileges can log onto WebEOC, and get full, up to date information on the status of the emergency, including the resolution of issues of concern to the responder. Data can be entered and status upgrades provided.

No one can doubt the importance of high speed internet service in this environment. The list of communication options using internet technology is long and varied.

The geniuses who figured out HSMM-MESH now stand on the verge of being able to provide the miracle of immediate high speed internet access in an emergency zone. The cost of this service is surprisingly cheap. Moreover, the MESH system is surprisingly robust and requires very little technical skill beyond initial equipment setup and configuration. All of the hard part is done long before the emergency.

Sound like a miracle? Well, frankly it is a miracle.

So how does it work?

HSMM-MESH is a distributed, peer to peer high speed internet system that uses frequencies in the 2.4 and 5 Ghz amateur bands. The equipment uses standard Internet wireless technology that most of us have in our laptops, homes and smartphones. This is a familiar and well-developed communication path for most of us.

What HSMM-MESH does is create a self-configuring, self-healing mesh network of wireless computer nodes. Bring a node on line, it automatically searches for and links to other nearby nodes. If one drops, another will automatically be selected. The mesh uses internet protocol addressing and any communication will automatically be forwarded the same as if you were using high speed internet service at home or at work.

The real miracle of HSMM-MESH is that the geniuses who thought this stuff up have figured out a way to do this using standard, off the shelf WiFi routers commonly used in our homes. This makes the cost of setting up and installing a node surprisingly cheap. You can get one of these nodes up and running for LESS than the cost of a cheap amateur HT radio. The cheapest option could be done using used equipment for well under \$100. Even going brand new with top equipment won't cost more than \$200.

Moreover, these units have low power requirements and can be run on 12 volts DC. A small portable 12 volt battery could keep one of these units running for a week. These units are ideal for emergency services because they function fully outside the power grid.

The simplest and most elegant system involves what is called a Bullet M2. Made by Ubiquiti Networking, the Bullet is a self-contained radio housed in a cylindrical tube of plastic or metal. It weighs less than half a pound. It is fully waterproof and designed for rugged outdoor use. The radio attaches directly to the feed point of an antenna using the antenna's N connector and needs no further support.

The Bullet gets power from a Power over Ethernet connection, which uses standard Cat.5 ethernet cable. All you have to do is hook your twelve volt power source to the Ethernet cable using a standard \$3.00 injector plug and you are ready to get on the air.

Here are some suggested field instructions for setting up and starting a PROPERLY CONFIGURED HSMM-MESH node using the bullet:

1. Attach the bullet to the base of the antenna using the threaded N connection
2. Plug one end of the CAT 5 cable into the bottom of the Bullet
3. Mount the antenna at a suitable location.
4. Make sure the antenna is grounded. If necessary run your own ground wire and attach securely to a suitable ground point.
5. Plug your 12 volt power source into the POE injector plug.
6. Plug the other end of the Ethernet cable into the injector plug.
7. Give the unit a couple minutes to power up and connect, and you are DONE.

**[Continued on Page 6]**

**HSMM-MESH – Real Deal... [Continued from Page 5]**

The complex part is configuring the Bullet radio. In essence what you are doing is flashing the radio with new code that allows it to operate on amateur frequencies in the HSMM-MESH mode. While currently this takes considerable skill, the developers are working out configuration procedures that can be taught to anyone comfortable with computers. We will shortly have detailed written instructions for configuring the Bullet.

So, you say, it all sounds fine, but what is the CATCH?

The CATCH lies in the propagation characteristics of high frequency signals in the 2.5 and 5 GHz range. At these frequencies, communication is TRULY line of sight. If the antennas can't see each other the communication will fail. Trees and hills are a big problem.

You get around hills by chaining communication, meaning traffic is passed from node to node. As long as you can contact one other node on the net you can reach all the nodes on the net.

Under this system, the more nodes in the system in a given area, the better the spread of the mesh. If you are the first on your block you won't be able to do anything with HSMM-MESH. We need to build a critical number of these stations before the system becomes effective.

If the mesh is already in place and supported by battery power, the mesh will remain in place despite a disaster that cuts all AC power. With enough nodes up and operating on battery power the internet will already be functioning and on hand when the first emergency responder arrives on the scene.

Even in areas with no existing mesh, a well-thought out deployment of a mesh system among planned emergency centers could be put in place in a matter of a couple of hours. If you know where the antennas have to go to make communication between the EOC and key community hubs, it is relatively easy to get them deployed and functioning on battery power.

In short, this is revolutionary technology that can significantly improve the effectiveness of emergency communication systems. Already plans are underway to develop and deploy a network of HSMM-MESH stations in South King County.

HSMM-MESH is still in the development stages. More testing, refinement and deployment is needed. However, everyone seriously interested in Emergency Communications should take a close look now.

As I said at the beginning of this article, this is the REAL DEAL.

Want to get started?

Check out <http://hsmm-mesh.org>. Information on the Bullet can be found at <http://www.ubnt.com/airmax#bulletm>.

***If you want local contact information contact me or check with the Federal Way Amateur Radio Club.***

**M&K Fleamarket 2013: 'VolunteerSpot' Signup**

By Michael Dinkelman N7WA

In an attempt to make the signup process a bit easier and transparent, we will be trying a new online signup tool - VolunteerSpot.com. Frankly, I expect there will be a learning curve and a bit of angst involved in learning this tool. However, I think it'll be a net win in the long term. I've done a search of the web and found no negative postings. They do try to get you to opt in for offers from sponsors but that is a simple check box to disable. There is some advertising on site. None of this is any more onerous than most sites we deal with on a daily basis.

You CANNOT go to VolunteerSpot.com and find the Mike & Key Fleamarket signup sheet (though you may want to go there and look over the site). There are some demo signup tutorials as well. You have to be invited by the organizer (me N7WA) through email. The email will have an exclusive link for you and it cannot be used by another person. To signup, you will have to provide a name and either an email address (preferred) or a phone number. The email is preferred by me because I can send you a reminder of your schedule come March. It doesn't even have to be the same email that you received your invitation with. Kathy KB7QMI, who turned me on to this tool (her church uses it) says she has never received one piece of spam from this site. Neither have I in the short time I've been registered. However, make sure you uncheck that one box about offers.

I will NOT be sending out any invites until after the October club meeting. I will have the ability to demo the site at the Club meeting. I can also sign people up directly at that time or later. Now, some of you do not have email or will be resistant to using the tool. I can sign you up directly. Maybe we can change your mind later.

If you do use the tool, you will find a calendar with the two days of the event – March 8<sup>th</sup> and 9<sup>th</sup>. For each day, there is a list of shifts and jobs. The list is ordered by time. Each shift has a limited number of positions that can be signed up for. You can (and I hope will) sign up for multiple shifts and or jobs. Some jobs (VE/Registration) should only be signed up for if you have coordinated with the Chairperson. These Chairs do their own scheduling and those signups are really only there for tracking and to help produce badges.

I expect there will be questions. I'll try to address them at the meeting and subsequent newsletters.

## Contest: Salmon Run 2012 / W7A

By Michael Mikuchonis W7XTZ

Our group, W7A, once again went to Orcas Island for the Salmon Run and we got a Clean Sweep. Team members were: Roy Heimes N7AVN, Lee Sherry KE7NBN, Blake Slutz N7BLZ and Mike Mikuchonis W7XTZ. Attached is a copy of our QRZ site which also talks about the family homestead on Orcas Island. **73 de Mike, w7xtz .- - - - - .- - - - -**

[Ed. Note—“W7A - Callsign Lookup by QRZ.COM” contains the photo. Article text is below.]

**CLEAN SWEEP!!!!!!!!!!!! WE GOT ALL 39 WASHINGTON COUNTIES!!!!!!!!!!!!**

Once again W7A will be activated on Orcas Island, Washington for the Salmon Run or the Washington QSO party. The Salmon Run will be Saturday September 15 & Sunday September 16. Hours will be: 1600Z Sat. to 0700Z Sun. & 1600Z Sun. to 2400Z Sun. Local time will be: 9:00 a.m. Sat to Midnight then pick up again Sunday 9:00 a.m. to 5:00 p.m.

Our location will be at Woodside Farm, Olga, WA on beautiful Orcas Island in the San Juan Islands. The San Juan Islands are at the north end of Puget Sound and at the east end of the Strait of Juan de Fuca near Canada. The farm was homesteaded in 1886 by Richard C. Willis formerly of Liverpool, England (my wife Gails great-great grandfather). The farm is a semi-working farm with cattle on pasture lands and timberlands.

Four direct descendants live in their own homes on the farm. Orcas Island is in San Juan county (for you county hunters), grid square CN-88 and for you IOTA hunters it is NA-065. Our group (see picture) will be Blake N7BLZ, Mike W7XTZ, Lee KE7NBN and Roy N7AVN. Roy's YL, Donna, unfortunately, won't be with us this year.

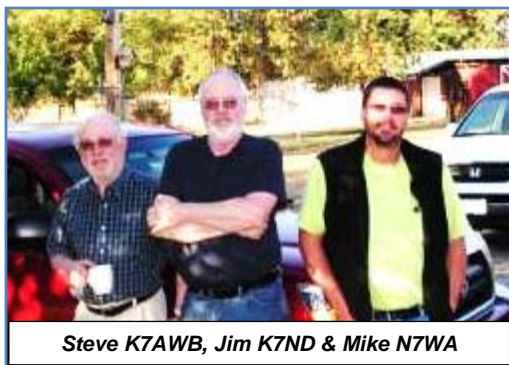
This years canine auxilliary will be Daisy (held by Lee). We hope to work you during the Salmon Run and plan on having a lot of fun.



2012 Salmon Run - Team 'W7A'

## Contest: Salmon Run 2012 / N7WA

By Michael Dinkelman N7WA



Steve K7AWB, Jim K7ND & Mike N7WA

You may have noticed a fair number of the Board members were missing for the September meeting. That's because we have learned that the Salmon Run (aka Washington QSO Party) is an event not to be missed!

My run this year was born out of failure in 2011. Not complete abject failure, but failure to meet a goal of putting on a good percentage of the counties in Eastern Washington and failure to cover more than one band adequately. The second issue was the first to be solved. I had originally installed a homebrew antenna with fixed coils on my truck. While it worked great, it entailed stopping the vehicle to change bands. This may be fine for part-time mobiling but was lousy for running counties. After reading many reviews and talking to mentor Dean N7XS about his antenna, this was fixed by purchasing an antenna that was adjustable from inside the cab and that appears to work as well or

better than my homebrew antenna. The ability to run more counties was solved when Jim K7ND came up to me after last year's Salmon Run program and volunteered to be my driver for the two days that was required to cover the full run. He didn't even want to operate – just drive. With those two major issues solved and few minor ones (like getting the computer running from inside my vehicle and a better audio system); I felt we were ready to try again.

Jim and I spent the night before the test near the city of Yakima with some conveniently located family. From our night's lodgings, we could get to Satus Pass in Klickitat County in less than 90 minutes. Satus Pass is actually well into Klickitat county but preferable to the county border which is within the foothills leading up to pass. Klickitat had an estimated Ham population of 265 in January of 2012 which puts it at the 13<sup>th</sup> lowest county. Both years, the number on contacts made from here hasn't been impressive, but that may be more to that fact the test is just getting under way. My biggest mistake of the test occurred here. I had configured my logger for Roving operation but failed to put in some test Q's (a best practice). On my very first contact, the program told me I hadn't configured my RoverQTH. My what? In panic, I changed the station configuration to a stationary type realizing that I was now dooming myself to innumerable DUPES, manually tracking county changes, and retyping in the entire log after the contest (after I figured RoverQTH out).

After 30 minutes at the pass, we headed for Yakima County and points east. We continued to operate while driving down through the foothills but there were only 8 Q's in the log by the time we reached the Yakima County border. Both Yakima and Benton County are fairly well represented with over 800 and 900 Hams respectively. However, they had to be crossed to get to the low population centers further east. Fortunately, both counties are wide open and the test was warming up. The first DX (Italy) showed up half way through Yakima County and stations were now calling



Steve K7AWB, Peggy W7PEG & Hondo

[Continued on Page 8]



**Contest: Salmon Run 2012 / N7WA... [Continued from Page 7]**

from every part of the country. Another error on my part was to not go to 40M early in the test to catch the locals but 15 and 20 were very busy. Activity while we were in Benton County was similar to Yakima except the mobile followers now had us in their sights and the Benton border crossing was met with a mini-pileup.

With 36 Q's from Yakima and another 19 (including Germany and Japan) from Benton, we were making progress. One area where I had no success was on phone. Without a single SSB contact to our name at this point and not really hearing anybody else, I tossed the microphone and told Jim we were now a CW only entry. (Go figure...)

**K7AWB Tower**

Franklin County was next after crossing the Columbia River which divides it from Benton. Franklin has just over 200 Hams and you can run through the county with just a few miles of freeway driving, so we pulled off to park in a shady spot in Pasco. With 18 more Q's in the log and more DX showing up as well, it was time to head out for Walla Walla.

Walla Walla County isn't physically big but we were going to be travelling the entire width so there was no hurry in collecting Q's. It's also farm country and you are getting into rolling hills the further east you go. When we finally left Walla Walla and crossed into Columbia County, we had another 45 contacts spread across 20 and 15 meters plus my only 10M contact for the whole test. The DX now included some South America as well as Europe and Japan.

Columbia County is reputed to have fewer than a dozen Hams. When I search QRZ.com for the ZIP code that encompasses the entire county, I only see 4 Hams and they are all in the town of Dayton (hmmm... interesting name). We stopped for lunch in Dayton and made a strategic decision over lunch. We were running behind schedule and the planned route through Asotin County at the very SE tip of the State wasn't going to help matters. We decided we would head north from this point and leave Asotin for another year. Yes, Asotin only has 100 Hams and it was desirable to activate but it just wasn't in the cards. Thirty three contacts later, we crossed into

Garfield County which barely exceeds Columbia in resident Hams.

Because it was a quick trip through Garfield, we parked on a side road. Nothing but rolling hills and big wind turbines on top of them. After only 15 Q's, it was time to move on. Backing onto the main road, Jim actually had to wait for some approaching traffic. Wow, that was a nice new Porsche. Out here? Then another came by; then a third; then a fourth! Four beautiful Porsches had just come out of the hills of a remote part of eastern Washington. We could only think they were enjoying the back country roads where there were few legal entanglements and plenty of curves that could be taken at high speed with the right kind of performance car. Headed north as well, they soon left us in their dust as I dreamed of travelling Porsche mobile.

I rapidly found out as we crossed into Whitman County that I had made another error while parked in Garfield County. I had fiddled quite a bit with the antenna because 15M wasn't loading up quite the way I wanted. Now, I couldn't adjust the antenna at all. Either I had tripped the motor thermal cutout switch or something in the antenna had bit the dust. It sounded like a thermal cutoff (click, click) but sure was taking a long time to recover. Only time would tell. In the meantime, I was stuck on 15M which rapidly ran dry. We actually went through most of Whitman County before the antenna motor started moving again. Whew! That ended the talk about going home if the antenna didn't recover.

Whitman County led to Adam County and back to I-90 which allowed us to go freeway speeds through Lincoln and Spokane Counties. While on I-90 I finally tried 40M and was surprised at the level of activity from locals. Next year, I promise 40M will be a staple of the trip.

We were quickly coming to an end of our day but I wanted to squeeze in one more county – Pend Oreille, the furthest northeastern county in Washington. Unfortunately, travelling north through Spokane to Pend Oreille is a trail of stop lights through strip malls and it took some time while the S-meter was hovering above S5 a good part of the way. Finally arriving at Pend Oreille, we sat in a small county park for about a half hour before running three bands dry. Now it was time to quit for the day.

At the suggestion of Jim, I had asked a Spokane local (Steve K7AWB) if he would be willing to allow us to crash at his place Saturday night. I received an enthusiastic yes. As I turned off the radio in Pend Oreille, Jim steered the truck towards Steve's place in the hills northwest of Spokane. We arrived just as the last rays of the sun disappeared and were welcomed by the barking Hondo (all bark, no bite). We had a tour of Steve's cool shack and chatted with both Steve and his wife Peg as we wound down from the day before heading to bed.

We woke up at dawn. Even after a shower, we had three hours to kill before the test restarted. So we started exploring Steve's place which sits on 20 acres before having some breakfast. Finally, it was time to head out. Saying goodbye to Steve, Peg, and Hondo; Stevens County was just a few minutes away and we started our trip back west and towards home. Our run through Stevens County was on Corkscrew Road and the name fit. The computer and the radio control head slid back and forth across my lap. Typing was a challenge and if I was a bit slow coming back, that was the reason. Fortunately, the roads were Sunday morning quiet.

**On the road... the Corkscrew**



**Contest: Salmon Run 2012 / N7WA... [Continued from Page 8]**

From Stevens, we dropped back into Lincoln County. In 2011, we had encountered a cow in the middle of a road in Klickitat County. Our animal encounter this year was in Lincoln. We came upon a young moose on a part of the road where it had nowhere to go. On one side was a river, the other was steep hillside

The moose started running down the road ahead of the group of cars we were part of. Following slowly, the hillside eventually broke open a bit and the moose headed into the brush. Shortly afterwards, we were back in farming country and wide open spaces headed west on SR-2.

The next goal was Grand Coulee Dam. Here, four counties come together - Grant, Douglas, Okanagan, and Ferry. Ferry County is fairly rare so I knew I wanted to get it on. All county borders were met with mini pileups and the computer continued to rack up virtually everything as a Dupe. I had no idea of actually how many points or valid contacts we were accumulating.

Heading south through the coulees of Grant County, you get an appreciation of the power of the ancient water flows that occurred in the area. Rounding the south end of Banks Lake we crossed into Douglas County and home was starting to look good.

It was also looking smoky and dropping into the Columbia River headed towards Wenatchee, we saw the effect of the Fall forest fires. Grabbing a late lunch in Wenatchee, we were on the last leg home finishing up Chelan County and then putting on Kittitas as we headed towards I-90.

The test ended at 5PM local and we crossed into King County pretty near that time. Then it was just another hour to home. In the end, we worked 681 contacts over the two days and had 74 multipliers (states, DX, and other Washington counties). Some of the people following us had 20 contacts as we worked them on 2 or 3 bands from each county. The surprise was the DX that stayed with us over both days. Pending log scoring, we totaled about 151K points.

Not everything went swimmingly but the trip was a lot of fun and a great success. Those things that I could have done better I have made note of for next year and yes, I plan on doing it again. I want to thank Jim for being my partner in this venture and I hope he had fun as well.



**On the road... at Grand Coulee Dam**

**SEATTLE MARATHON 2012**

**Saturday, November 24 – (Kids Staged Marathon & 5K Run & Walk)**

**Sunday, November 25 – (Half Marathon, Half Marathon Walk, Full Marathon, & Full Marathon Walk)**

*By Fran Underwood N7FWZ*

*Despite all the changes during the last year, it is once again time to start planning for the Seattle Marathon. Again we, the public service oriented Hams of this area, have another opportunity to serve. I believe that this event utilizes more Hams than any other event in the Seattle area.*

*We continue to have the AMICA Insurance Company as the major sponsor and the University of Washington Medical Center will continue to be the Official Medical Provider. The Marathon Association expects that there will be over 16,000 participants in this year's Marathon. About 3,000 volunteers are needed to make this possible. Of that number, we'll need over 150 Hams to properly cover the course. Each Ham's effort will provide several services to both the participants and organizers.*

*As is the case every year, I continue to find more staffing opportunities than I have volunteers. A continuing need is for Hams that are EMT or Paramedic trained. I'd like to invite each of you, even if you aren't available to help us, to spread the word to your fellow Hams.*

*Some Hams will communicate for water stops, or monitor and possibly Marshal intersections. We will assist the "split timers" with the event starter's gun sound. We will have Hams with the 3 water trucks, providing coordination. About 10 APRS equipped Hams will communicate as the "Pooped Out Participant Pickup Patrol". Other Hams will staff the several Seattle Center communications positions, shadowing the event organizers, supporting the Recovery Area, etc. There will be a need for several Hams, on bicycles, to provide coverage and assistance for the last several miles of the event. Handheld radios with the 440MHz band are almost always sufficient to support this event.*

*The Kids Staged Marathon will still be held on Saturday, the 24th of November. This is a 1.2-mile run around the perimeter of Seattle Center, with around 2000 or more kids and many parents participating. Experience tells me that I'll need about 10 Hams for this short event. A 5K Run/Walk will also be held that same morning. I'll need a few additional Hams for this event since they overlap.*

*I hope that you will work with us this year. I will try to follow your wishes as to assignment. The position that you served last year is yours unless you ask for a change of assignments. I will work with new Hams to select an assignment that will meet their needs. I will try to make everybody happy – if possible.*

*There will be four meetings at my home – to orient you and to deliver the materials to you, that will make it possible to handle whatever assignment we ask you to take. While I only ask that you attend one of the four meetings, I encourage you to make every effort to attend.*

*[Continued on Page 10]*

**Seattle Marathon /N7FWZ –[Continued from Page 9]**

As in past years, there will be ID badges, tee shirts and orange baseball caps for identification, as well as orange vests for your safety. Our next e-mail will give the details, but please reserve a couple of hours on Saturday, Nov. 17 or Sunday, Nov. 18. I've asked David Flood to rewrite the PowerPoint presentation so hopefully it will be more informative and will help shorten the meetings. There will still be apples and Krispy Cream donuts for your enjoyment.

So I am asking each of you to plan to be a part of this great event and to let your fellow Ham friends know also. Please confirm your participation as a member of the great Ham radio support team for this year's Seattle Marathon as soon as possible. Thank You!

To learn more about the Seattle Marathon, look at this site <http://www.seattlemarathon.org>

Please e-mail your reply as soon as possible – to [w7aka@comcast.net](mailto:w7aka@comcast.net) or call my home at 425-226-4115 or my cell phone at 425-890-5752. Thank you, Fran Underwood, N7FWZ.

**Pacific Northwest Hamfairs & Events**

Source: PNW Hamfair webpage at <http://www.n7cfo.com/amradio/hf/hf.htm>. (Used with Permission)

**October 20, 2012.** North Kitsap Amateur Radio Hamfest. Bremerton, WA. *This is an ARRL sanctioned event.* <http://www.nkarc.org/> [Flyer in PDF](#). (243K)

**October 20-21, 2012.** Jamboree On The Air. <http://www.scouting.org/jota.aspx> <http://www.arrl.org/jamboree-on-the-air-jota> PNW stations may register their operation at: <http://www.woodinvillearesgroup.org/Pages/JOTA.aspx>

**October 27, 2012.** Swap-Tober-Fest. Mid-Valley ARES. Polk County Fairgrounds, Rickreall, OR. Contact: Don Bruschi, [k7un@swaptoberfest.net](mailto:k7un@swaptoberfest.net) . <http://www.swaptoberfest.net>

**October 30, Nov 3rd.** Resilience Northwest 2012 Emergency Planning Conference, Portland, OR. <http://www.resiliencenw.org/>

**November 4, 2012.** Maple Ridge Swapmeet, Maple Ridge, BC. [http://rac.eton.ca/events/detail.php?event\\_ID=1562](http://rac.eton.ca/events/detail.php?event_ID=1562)

**February 16, 2013.** Salem Hamfair & Computer/Electronics Swapmeet. Rickreall, Oregon at the Polk County Fairgrounds. <http://www.w7sra.com> .

**March 2013.** MicroHAMS Digital Conference. Redmond, WA. <http://www.microhams.com/softcontent.aspx?scId=9>

**March 9, 2013.** Mike & Key Swap Meet. Puyallup fairgrounds exhibition hall, Puyallup, WA. *This is an ARRL sanctioned event.* For information, contact [dmdink@yahoo.com](mailto:dmdink@yahoo.com) or [n7wa@arrl.net](mailto:n7wa@arrl.net) . <http://www.mikeandkey.org/flea.htm>

**These Workshops-Classes open to All Washington-State, FCC Licensed Hams and CERT Members**

Contributed by Bill Balzarini KL7BB

Location: Auburn Annex Building @ One East Main Street (3<sup>rd</sup> Floor) in Downtown Auburn WA. 98002 (206-400-1723)

Also see: <http://HamShare.com>

**October 20, 2012 9:00AM to 5:00PM Saturday, (Lunch 12 to 1 PM) Class #12073-CW**

**CW Morse Code:** How to Listen Ahead, Write Delayed and Build a Buffer.

Making Order out of the Noise in your Receiver Speaker. CW works when all else fails.

**October 27, 2012 1:00PM to 5:00PM Saturday, Class # 12076-MATH**

**Math** – The Art Form for you, to explore Radio and Software applications.

**November 03, 2012 1:00PM to 5:00PM Saturday, Class # 12545-HPSDR**

**HPSDR** (High Performance Software Defined Radio)

This is the direction that most Radio Equipment is headed

**November 10, 2012 9:00AM to 5:00PM Saturday, (Lunch 12 to 1 PM) Class 12098R-NVIS**

**NVIS Antenna Workshop Great for EOC & Field Use.** ( for HF Bands ) Come and Build one.

**November 17, 2012 1:00PM to 5:00PM Saturday, Class # 12070-MSG**

**Message Handling, Both Paper and Digital Messages. Also DRATS Digital and the ICS-213, ARRL Radiogram, Sneaker Net, Snail Mail, and High Speed Multi-Media RF Networking**

**November 24, 2012 9:00AM to 5:00PM Saturday, (Lunch 12 to 1 PM) Class # 12255-IMD**

**Interference to My Radio, Why, Why, Why.**

IMD Spec, Towers, Antennas, Power Amps, Locations.

**December 01, 2012 9:00AM to 5:00PM Saturday, (Lunch 12 to 1 PM) Class # 12072-GND**

**Ground and Grounding** "The other half of your antenna". Vertical, Dipole, Beam, Dish, NVIS

How to use everything as an antenna in the time of Emergency. ps Bring your Antenna Matchbox.

## M&K General Meeting Minutes

By Ivy Nelson-Groves, Secretary

General Meeting Agenda – 15 September 2012

Meeting was called to order at 1002 hours by the former 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.

### Introductions

### Officer Reports:

**President** – Robert KD7WNV: not present.

**Secretary** – Ivy WA7IVY: No report.

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

**Activities Manager** – George AE7G: not present. Jim N7MU is filling in today. Today's program is about how to become a VE and some open topic discussion.

**Chairman of the Board** – Tim K7ANE: Not present.

**Radio Officer** – Hal N7NW: not present.

### Quorum present.

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

Daniel KL7WM made a motion to approve the minutes as amended. Scott AG7T seconded the motion. Motion passed.

**Vice President** – Kathy KB7QMO: Kathleen KF7MUD filled in for Kathy. No prospective members were present.

**Relay Editor** – Gary KG7KU: Gary encouraged the membership to submit articles; the length doesn't matter – short articles are welcome as well as longer articles.

**Webmaster** – Jim KD7BAT: There are some changes on the web: some new submissions on the swap page; the links page has been updated.

### Standing Committee Reports:

**Strategic Planning** – Mike N7WA: Not present.

**Facilities** – Daniel KL7WM: Daniel is still investigating parking situation.

**Education** – Tim K7ANE: Not present. Jim KD7BAT mentioned that upcoming classes are listed on the website.

**Public Service** – Robert KD7WNV: not present. Jim KD7BAT spoke about an article on page 5 of the Relay and mentioned that they could use new volunteers for King County Search and Rescue. Jim also spoke about the duties of these volunteers and radio involvement with search & rescue operations.

**Technical** – Gil W7GIL: not present.

### Other Committees (as appropriate):

**VE Exams** – Scott AG7T: Two people attend testing last month: awarded 1 General, and 1 Extra. Exams will be held today at 12:30 at the Salvation Army Building.

**Flea Market** – Hal N7NW/Mike N7WA: Ivy WA7IVY reported that the first meeting for Flea Market Chairs will be on the 2<sup>nd</sup> Tuesday of October at Mike N7WA's home. If you are interested, please attend.

**Field Day** – Ivy WA7IVY: Wagon Wheel will be reserved this coming week. The Barracks have been reserved already by Rita KD7CNU.

**By Laws Review** – Dave KB7PSN: no report.

**Logo** – Jim N7MU: no report.

**Picnic** – Hal N7NW: Lost and found item. Dave announced that we will be having a picnic next year and he will be making the reservations for next year.

**Membership** – no report.

### Old Business:

Ivy WA7IVY spoke about the Renton Planning Commission meeting. They are proposing changes to the permitting process for Amateur Radio antennas. The meeting was originally scheduled for September 5<sup>th</sup>, but was moved to September 19<sup>th</sup> at 6pm on the 7<sup>th</sup> floor of City Hall. If you are available and a resident of Renton, your attendance at this meeting is encouraged.

### New Business:

Dave KB7PSN reported that the budget processing begins in October, so if you have any requests, speak to the board members now. The procedure is: budget items are discussed in October and November at the board meetings; at the December board meeting sets the final proposed budget; at the December general meeting the proposed budget is presented to the membership for an up or down vote.

### Good of the Order:

**Alligator Award** – Dean N7XS still holds the alligator award.

The next Mike & Key Board meeting will be on the first Tuesday of the month, October 2nd at 7:30 pm, at the Salvation Army in Renton. (Note time change)

The next Mike & Key General Membership meeting is the third Saturday of the month, October 20th at 10:00 am at the Salvation Army in Renton.

Scott AG7T made a motion to close the meeting. Dick WA7UEW seconded the motion. The motion was passed. Meeting adjourned at 1040 hours.

4 guests; 40 members, 34 ARRL members

**Attested: Ivy Nelson-Groves WA7IVY, Secretary**



October 2012

K7LED Relay

## M&K Board Meeting Minutes

By Ivy Nelson-Groves WA7IVY, Secretary

Meeting Held 2 October 2012

### Officers present

X	President	Robert Grinnell	KD7WNV
X	Vice President	Kathy Martin	KB7QMO
X	Secretary	Ivy Nelson-Groves	WA7IVY
X	Treasurer	Dave Smith	KB7PSN
X	Activities Manager	George Thornton	AE7G
X	Radio Officer	Hal Goodell	N7NW

### Trustees present

X	No. 1	Mike Dinkelman	N7WA
X	No. 2	Kathleen Weiss	KF7MUD
X	No. 3 CoB	Tim Kane	K7ANE
X	No. 4	Gil Drynan	W7GIL
	No. 5	Daniel Stevens	KL7WM

### Other officers (non-voting)

X	Relay Editor	Gary Bryan	KG7KU
X	Webmaster	Jim Etzwiler	KD7BAT

### Visitors

Michael Hansen  
Frank Tate

Chairman of the Board Tim Kane K7ANE called the meeting to order at 7:32 p.m.

**Minutes:** A motion was made to approve the minutes as published was made by Mike N7WA and seconded by Robert KD7WNV. Motion passed.

#### Reports:

**Chairman of the Board – Tim K7ANE:** Tim had a good time at Salmon Run.

**President – Robert KD7WNV:** No report.

**Vice President – Kathy KB7QMO:** Membership applications for consideration: John Downs, KF7VNB; Sean Kronberg KF7YAZ. They were approved.

**Secretary – Ivy WA7IVY:** Ivy had an extra key to the mailbox and gave it to the President.

**Treasurer – Dave KB7PSN:** The Club's books are in order. Dave sent out the updated budget to the board.

**Activity Manager – George AE7G:** We got a 20% discount from Elecraft on the KX3 for our end of the year drawing, so we can add some accessories. October presentation will be on how to organize a public service event by Fran Underwood. George is still working on the November program. He is always looking for ideas for programs. Discussion concerning permitting candidates for ARRL office speak at or after the general meetings.

**Radio Officer – HAL N7NW:** On this past Friday in the morning, the Tiger Mountain site lost power; we stayed on the air because of the battery backup. When the power came back on the mountain, our repeater did not come back up. Hal discovered the problem on Sunday morning. Hal installed the older ICOM repeater while he works on the primary repeater. We are back up on the air now. It is likely that power surges as the power came back on may have caused the problem. The repeater is being looked at right now. While the backup repeater is in operation, it is important that

you remember that the repeater has an "anti-kerchunking" switch. You should key the mike for a second or so before you speak.

**Relay Editor – Gary KG7KU:** Gary thanked everyone for writing articles for the Relay.

**Webmaster – Jim KD7BAT:** The website should be up to date; Jim updated the class schedules. Hal N7NW suggested that we get some updated info up for next year's Flea Market.

#### Standing Committees:

**Strategic Planning – Mike N7WA:** No report.

**Facilities – Daniel KL7WM:** Not present. Discussion of the parking situation and upcoming renovation of the Salvation Army building. Dave will be paying for the meeting site to the Salvation Army in about 2 weeks.

**Education & Training – Tim K7ANE:** The Red Cross is sponsoring an EMCOMM class as well as a couple of radio classes; Tim will have more updates at the General Meeting. Robert KD7WNV spoke about the ESCA radio classes.

**Public Service – Kathleen KF7MUD:** Nothing to report. There will be a committee meeting after the October General Meeting. The Seattle Marathon is coming up and hams will be needed for this event (the Sunday after Thanksgiving); and the Special People's Cruise will be in December.

**Technical – Gil W7GIL:** No report

**By Laws – Dave KB7PSN:** No report.

**Picnic – Hal N7NW:** No report.

**Logo – Daniel KL7WM**

**Field Day – Ivy WA7IVY:** Ivy reported that the Wagon Wheel has been reserved, but the price seems to have gone up; we may wish to account for this in future budgeting. Rita has already reserved the Barracks.

**Flea Market – HAL N7NW and Mike N7WA:** Meeting next Tuesday evening at Mike's home 7:00pm.

**Membership - :** The committee is being formed and as yet does not have a chair. Discussion on scope of the committee.

#### Old Business:

Estate subcommittee reported on their status at this time.

#### New business:

If we want a holiday party in December, we need a volunteer chairperson in October, so info can be in put in the November relay.

Tim K7ANE mentioned a place in Massachusetts which is trying to promote HF among youngsters and is giving away a variety of equipment. It is open to those under 21 years old. Tim is writing a short piece on this for the Relay. Gil W7GIL has some equipment that he can donate to youngsters in our own club; George will write this up for the Relay.

#### Good of the Order:

Hal reminded folks that there are a lot of scams going around lately. Be vigilant!

There being no further business, the Chairman of the Board adjourned the meeting at 8:49 pm.

**Attested: Ivy Nelson-Groves WA7IVY, Secretary** 



## M&K-K7LED Club Library

By Tim Kane – K7ANE

*Library open 8:30 AM to 11:15 AM (General Meeting)*

*M&K Library Shop open Tue. to Sat. ([www.skywaytv.net](http://www.skywaytv.net))*

*The Library is located 11818 Renton Ave So., Seattle WA, Tel. 206-772-2350*

Four new books have arrived for the Club Library. Based on suggestions from the members, we've acquired the ARRL's excellent set of three books on the basics of electronics, radio and antennas, along with the newest ARRL book on Software-Defined Radio (SDR). These four new books will be available to checkout at the general meeting in May:

- **Understanding Basic Electronics, 2<sup>nd</sup> Edition, 2010, by Walter Banzhaf, WB1ANE**
- **Basic Radio, Understanding the Key Building Blocks, 2006-12, by Joel R. Hallas, W1ZR**
- **Basic Antennas, Understanding Practical Antennas And Design, 2008-09, by Joel R. Hallas, W1ZR**
- **The ABCs of Software Defined Radio, 2012, By Martin Ewing, AA6E**

The Basic Electronics book discusses the basics of electricity, electronics, and simple circuits. Chapters cover components, DC and AC electrical circuit concepts, basic analog and digital circuits, series and parallel circuits, problem solving and applied math (by hand and calculator), frequency, active devices, semiconductors and integrated circuits. The book also takes a look back at vacuum tubes and their applications. A good glossary of electric and electronic terms is also included.

Basic Radio looks at the development of radio from the simplest crystal sets, early simple receivers through modern superheterodyne receivers. It then looks at the parallel development of transmitters, from earliest CW sets through the evolution of voice transmission from AM to SSB. Chapters also cover power amplification, wave propagation, transmitting and receiving antennas, radiolocation and radionavigation systems, and another glossary of relevant terms. The author also looks into his crystal ball to see what the future might hold. The appendix includes several build-it-yourself projects.

The third book in the series, Basic Antennas, looks at a wide range of communications antennas, starting with the venerable dipole, and continues through both verticals and horizontals, arrays, surface reflector antennas, yagis and log periodics, and loops. Also discussed are microwave and vehicle-mounted antennas. The author discusses antenna measurements and modeling, using EZNEC software. Instructions for some easy-to-build antennas are also included.

The Software Defined Radio publication is really more of a pamphlet than a book, and thus somewhat disappointing. It discusses the application of digital electronics and the road that has led to this new metamorphosis of radio and computers. However, it covers the basic concepts and suggests where the future of this new technology may take amateur radio.

We've still got some of our annual budget left for the library, and are always anxiously seeking good suggestions for editions to add to our shelves. Get in touch with me if you have a good idea. We'll order some more new books later in the year.



# Ham Nets & Events – 2012 – October / November

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<b>14</b> 1700 – NWWA-LDS Net 147.34 (Weekly) 2000 – King Co. ARES Net 147.08 (Weekly) 2015 – Kids Net 145.49 (Weekly) 2200 – NW Astronomy Net 145.33 (Weekly)	<b>15</b> 0545 & 1645 – Weather Net 145.33 (M-F) 1700 – Evergreen State Traffic System Net 145.19 (Daily) 1830 – WA Emerg. HF Net-ARES 3.985 (Weekly)	<b>16</b> 2000 – Seattle Red Cross Comm Team Net 147.080 (Weekly) 2000 – Snohomish Co. ACS/RACES Net 146.92 (Weekly)	<b>17</b> 2000 – Evergreen Intertie Gen/Tech Info Net – 145.33 (Weekly) 2000 – Educational Radio Net – PSRG 146.96 (Weekly) 2100 – NWSOAR Net 146.82 (Weekly)	<b>18</b> 1900 – M&K Public Service Net 146.82 (Wkly) 2000 – Computer & Packet Net 145.33 (Wkly)	<b>19</b>	<b>20</b> 1000–M&K Club Meeting, Renton 1230– M&K Ham Radio Exams, Renton. Scott- <a href="mailto:ag7t@arri.net">ag7t@arri.net</a>
<b>21</b>	<b>22</b> 1900 – Seattle ACS Net 146.90 (Weekly) 1930 – PSRG Net 146.96 (Weekly) 2000 –YL Net 145.33 (Wkly)	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b> 0900 – WA State Emerg. Net (WSEN) ARES HF Net 3.985 (Weekly)
<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>	<b>01</b> NOVEMBER	<b>02</b>	<b>03</b>
<b>04</b>	<b>05</b>	<b>06</b> M&K Board Mtg Salvation Army Bldg Renton, 7:30 pm	<b>07</b>	<b>08</b>	<b>09</b> Relay Articles Due 23:59:59	<b>10</b> Public Service: Veteran's Day Parade, Auburn. Contact: Liz N7ZXH <a href="mailto:hamradiosignup@seafairparademarshals.org">hamradiosignup@seafairparademarshals.org</a>
<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b> 1000–M&K Club Meeting, Renton 1230– M&K Ham Radio Exams, Renton. Scott- <a href="mailto:ag7t@arri.net">ag7t@arri.net</a>
<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b> Public Service: Seattle Marathon, Seattle. Contact: Fran, N7FWZ <a href="mailto:w7aka@comcast.net">w7aka@comcast.net</a>
<b>25</b> Public Service: Seattle Marathon, Seattle. Contact: Fran, N7FWZ <a href="mailto:w7aka@comcast.net">w7aka@comcast.net</a>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>01</b> DECEMBER