



From our Club President...

### The Opportunity of Field Day

By Robert Grinnell KD7WNV, President

It was because of Field Day that I first became aware of the Mike & Key Club. When I decided in late 2002 to finally get around to getting a ham license, I knew that I wanted to join both a ham club and an emergency communications group. I was doing kind of a geographic search for these—since so many clubs and groups have a geographic entity in their name—with one of the early surprises being that there was no such thing as the “Seattle Amateur Radio Club” or the “King County Amateur Radio Club.”

From reading tales of Field Day daring-do in my dad’s issues of QST as a youth, I still harbored dreams of such adventure, so beyond just wanting to find a relatively healthy and active club in the area, a major criterion was that it put a significant effort into Field Day. To that end, I recall browsing through the published Field Day results, looking for 7-call clubs in the area. It didn’t take long to become aware of a well-performing club in the 6A classification with the call sign K7LED, and a bit of investigation on the Web turned up that it was based in Renton. Hmm, not as close as a congenial north-ender might hope for, but not out of range. I mean, it isn’t the boonies, like, say...*Kent*. (A final irony to the story, going back to my “geographic” search, is that the EmComm group that I ultimately joined—ESCA RACES—also has no geographic entity in its name. It took me awhile to find that one, too.)

Regardless of whether or not Field Day is part of what brought you to the Club, it is a wonderful experience and opportunity that is not to be missed. It is often said that Field Day can be different things to different people, which is very true. It can also be many things to one person, which is what I think engenders so much enthusiasm in many of us. One of the greatest things about it is the opportunity to grow and expand your horizons in the hobby. It has been a great learning experience for me over the years. If you want to learn about station and antenna setup, there is no better accelerated lesson. If you don’t have much HF experience, here’s the perfect opportunity, with other hams to provide guidance and/or HF band privileges by acting as control operator. Heard about contesting, but don’t know if it’s for you or where to start? Get your feet wet, operating in the contest-like environment of this “non-contest,” and learn technique by observing expert operators. Thought about operating CW or digital? Give it a try, with everything set up and people there to help you out or explain things.

“But wait, there’s more.” Beyond the learning opportunities and amateur radio experiences, the side benefits begin with the beautiful location at Fort Flagler. Got a QTH with a view out over the water? You do here (well, except for those of us in the dungeon...er...20-meter bunker). Explore the park and walk on the beaches and trails. Enjoy the grilling/potluck feasts on Friday and Saturday nights. **[Continued on Page 4]**

### Husky Crew Races— Another Success

By Dick Radford WA7NIW

*On the morning of May 5, at the Montlake Cut along the UW campus in Seattle, a group of 9 Hams provided communications support to the crew races held as part of the boating season Opening Day festivities. Of these there are 5 Mike and Key members, and a former member, showing the club’s commitment to Public Service. One of these just recently joined the club and is already participating in events. For those who are unfamiliar with our participation in this event, we supply communications for timing and safety on the course. As usual, the timing function went off without a hitch, and we were fortunate in that there was no need for the safety function. **Thanks go to our members Robert KD7WNV, Brendan KD7IKV, Howard KE5OEZ, Stephen KB7FGV, non members Ted N0YC, Margaret KE7YYM, Tom KB7KIF and Victor KD7OWX.** The core of this group has been supporting this event for several years now, and the group, through the years has been supporting this event for nearly 40 years. *Thanks to all who participated, and a welcome to any others who want to join this event.**

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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.



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**K7LED Repeaters:**  
146.82 output / 146.22 input  
(PL 103.5)  
Tiger Mountain  
224.120 output / 222.520 input  
(PL 103.5)  
Tiger Mountain

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### **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.

May 2012

## M&K Club - May Activities

By George Thornton AE7G, Activity Manager

MAY AND JUNE MEETINGS TO FOCUS ON FIELD DAY

### It is time for Field Day preparation.

Mike and Key has a tradition of putting on a top class Field Day operation. We usually score at or near the top in our division and region. More importantly, we all have a lot of fun.

Whether you are an experienced contester or a complete and unlicensed novice, Field Day offers something for you. For contesters, you can participate as an operator at an ideal seaside location with top quality antennas and radios. As a complete novice you can experience HF operation in an ideal setting at no cost. You don't even need a license.

Our May meeting will provide our usual full Field Day preparation, including full information on our setup and how you can participate. We are holding the orientation meeting earlier this year to give those not already familiar with our Field Day operation the chance to find out what is involved so you have the time to decide whether to join us and get prepared.

Our June meeting, coming barely two weeks before the big event, will focus on operating tips and techniques. The facilitators are still being arranged, but the following four topics will be featured:

1. **Propagation forecast:** Which bands will be open, and when.
2. **Voice contesting techniques:** What do you need to do to maximize your contacts
3. **CW contesting:** What works the best on CW
4. **GOTA:** How can we make the experience fun and interesting for new operators including children?

My particular interest is with GOTA and I am going to take this time to encourage your ideas and participation.

GOTA, or *Get On The Air*, is the first opportunity many newcomers may have to experiencing actual operation. This is where and how our hobby survives and even grows. If you care about what we do the most important thing you can do is encourage someone new, particularly a child, to develop curiosity and interest in HAM radio.

Last year I served for the first time as the GOTA chair. There were many young children, some as young as eight or nine, who showed up at the GOTA tent. I was able to give them a quick lesson in operation and then they were on the air.

Children are naturally timid and slow when presented with something new and complex. Operating on Field Day, particularly in the first hour, can be challenging. The bands are full of traffic, the atmosphere is competitive and it can be hard to make that first contact.

I learned a few tricks to make it fun, and I figured out a few tactics to help new operators, particularly young children, to succeed.

If you come to Field Day consider participating as a mentor at GOTA.

Our Door Prize ticket sales have been excellent and we are coming closer to being able to afford the top prize of an Elecraft KX3 for the yearend prize. Remember, every dollar in ticket sales plus goes to purchasing prizes. The more tickets sold the better the prizes. Since we often add prizes that are donated and we also get discounts from some of the vendors, we actually give out more in value on prizes than we take in on ticket purchases. The odds are on your side. Plus you are helping to make the Mike and Key experience fun for all of us.

I have a conflicting EMCOMM responsibility and will not be at the May meeting. Tim Kane K7ANE will be conducting our May raffle.

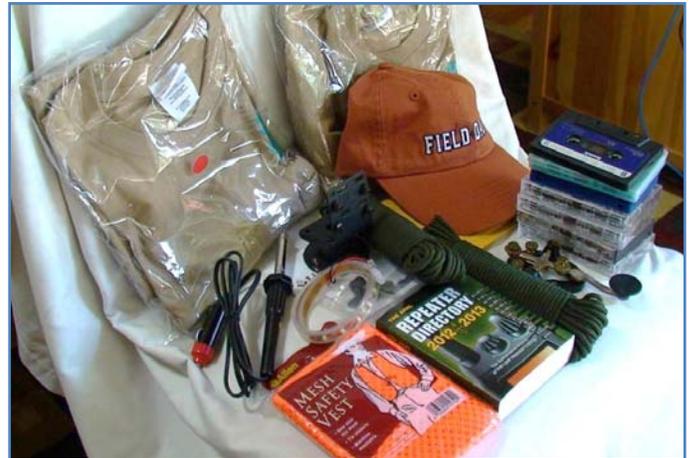
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## M&K May Door Prizes

By Jim Aigner N7MU

Here's the line-up for May door prizes:

- Orange Mesh Safety Vest
- (2) 2012 Field Day Shirts - Large
- 200' 5/32" nylon antenna rope
- 2012 Field Day Hat and Pin
- 2012-2013 ARRL Repeater Directory
- Morse Code Audio Tapes, J-37 Key – used
- 30W 12-Volt Solder Pencil
- Lido LM-1201 Mic hook and Pro-Fit Mobile Mount
- 19' 12-Volt DC LED Flexible Light Strip



## M&K Radio Officer Report

By Hal Goodell N7NW

Several trips have been made to the repeater site recently, now that the road conditions are passable. Pretty muddy, but hopefully that will dry up soon. My pickup looks like it has been in an off road race!

The 82 repeater is a little quieter now, thanks to the site owners we have located and removed one of the inter-mod sources. Just as I was beginning to like our new courtesy tone!! Not really. We still have some noise problems, but it is much improved.

Another trip is planned soon and hopefully we can get rid of the final problems, or at least identify the cause. Thanks for your patience.

Plans for the summer are to install battery backup for the 220 repeater, retune the 220 and 2 meter cavities, and a few other housekeeping chores.

Again, thanks everybody for your patience. Here is a nice picture taken recently showing the shadow of the antennas.



**From our Club President... [Cont'd from Page 1]**

Camp with your Club friends in the Wagon Wheel, or if camping isn't your thing, reserve a spot in the Barracks. We have the Wagon Wheel for the whole week, and the camping fees are covered by the Club, so make a week-long vacation of it if you're so inclined.

Even if you can't make it for the whole week, try to make it a 3-day weekend and come out Thursday night or Friday morning and help with setup. In trade for all the benefits to the individual listed above, this is where the Club needs as many hands on deck as possible. Apart from just sharing the load, there can be an effect on radio operations, as the number of people available is a safety factor that affects how high we can raise certain towers.

With our Wagon Wheel reservation beginning just two days after the June meeting, we have moved up the Field Day orientation to be the program at May meeting, to give newcomers more time to make their plans.

**See you on the 19th, and hope to see you at Fort Flagler, too!**

**FD'12 – B&B Mom Speaks**

Rita Danielson KD7CNU

Good sunny afternoon, All – It's an absolutely gorgeous day today. Slight breeze, tulips in full glory and a lawn that will be needing Ric's attention before too much longer.

I've heard it's supposed to be a warm, dry summer. Let's hope it starts early and we can all enjoy Fort Flagler this year for Field Day, 2012.

Field Day this year will be June 23 and 24th. But if summer doesn't make an appearance until June 26th, we can still have a good time.

The Mike & Key Bed & Breakfast, (formerly known as the Barracks) will be open for business, Thursday June 21 at 3:00 PM through Sunday June 25 at 11:00 AM.

What will it cost for you to stay at the B & B? I'm so glad you asked. The cost is nothing to paid up members and their guests of the Mike & Key ARC. All we ask is a deposit of \$10 per person, per night. This will be returned to you when you check in. You can give me cash or a check made out to the Mike & Key ARC.

If you're not able to attend Field Day after paying your deposit, I'll return your deposit to you only if you notify me that you will not be coming. If I don't hear from you, I'll give your deposit to the treasurer to deposit in the Club account. The club has to pay for you whether you're there or not, so if you make a reservation and don't cancel, I can't let the next person on the waiting list know.

As of this writing, Thursday, May 10, we have 12 signed up for the B & B. We have room for 17 more.

Please don't wait until the June meeting to sign up as there may not be a bed for you. I have the breakfast menu planned. Working on the potluck selection(s) and other treats. Never know what this 'Mom' has planned...

*See you at the meeting... 73's - Rita KD7CNU "Mom"*

**FD'12: Wagon Wheel Campout**

By Dick Radford WA7NIW Field Day Wagon Master

Field Day is nearly upon us. I can almost hear the backs cracking and the muscles straining as we load up for our annual trek out to Fort Flagler. While the price of gas is daunting, the price of camping in the Wagon Wheel is surprisingly affordable. Free, for participants in our annual test of our ability to set up and operate from unimproved locations known as Field Day.

Camping spots are "First Come, First Served" and are available for tents, campers, RVs, etc. Please see me at the meeting to get on the list so I'll have a better idea of how many are coming, etc. I'll have the passes that allow you access to the park without charge, with me at the Wagon Wheel so be sure to check in with me when you arrive.

There are a couple of things I need to remind people of: While we have been using Fort Flagler for 35+ years, we are still guests and have to follow all of the park regulations if we want to return in the future.

Yes, we are in a separate camping area from the "regular" campers, but there are still rules that need to be followed. In the past there have been those who didn't think that "their" dog needed to be on a leash, those who thought that "their" kids didn't have to wear helmets when riding bikes, and those who thought that "their" generator couldn't possibly be bothering anyone. Well, all of these people were wrong.

Rules regarding pets, helmets, and generators are in effect and apply to everyone, even us. So please take the time to review the rules posted at the picnic shelter and everyone can have a more enjoyable stay in one of our state's nicest parks.

**Let's Celebrate Our May Members!**

By Dave Smith KB7PSN, Treasurer

As of May 2012, 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:**

<b>Michael Dinkelman</b>	<b>N7WA</b>	<b>27 Years</b>
<b>Eric Snyder</b>	<b>N7DLV</b>	<b>23 Years</b>
<b>Calvin D. Doss</b>	<b>KC7IYP</b>	<b>16 Years</b>
<b>Atsushi Sasaki</b>	<b>W7KN</b>	<b>13 Years</b>
<b>Mark Huffstutter</b>	<b>KB7WAL</b>	<b>8 Years</b>
<b>Frank Tate</b>	<b>NA7O</b>	<b>8 Years</b>
<b>Steve Rehnstrom</b>	<b>KE7KRT</b>	<b>5 Years</b>
<b>Bill Schneider</b>	<b>KE7YFP</b>	<b>3 Years</b>
<b>Dale Tongue</b>	<b>AC7NP</b>	<b>3 Years</b>
<b>Gene Budbill</b>	<b>N7QLT</b>	<b>2 Years</b>
<b>Liz Budbill</b>	<b>N7ZXH</b>	<b>2 Years</b>
<b>Fran Underwood</b>	<b>N7FWZ</b>	<b>2 Years</b>
<b>John Dawson</b>	<b>KE7OXR</b>	<b>1 Years</b>

May 2012

## WANDERING - A Look Back In Time

de Fred Roberts - W6TKV (ex-K2AMN)

My first exposure to ham radio was in 1934. It occurred when my parents received a phone call from a local ham who invited them to his "ham shack" so they could talk to a friend of theirs, whom he was talking to on his radio. They said "yes", and being a 7-year "only child", I was hauled along. I clearly remember going up to this fellow's second floor, sitting on the side of his bed, his ring-mounted microphone, the "big box's" which were his radios, listening to my parent's talk with their friend (Frank Lion), and being mesmerized by ham radio – and that, folks, is why I'm a ham today.

Between my 1934 exposure to ham radio, and 1953 when I obtained my license, the only ham I ever met was the same "Frank Lion" in 1934, and a little later when he was visiting a friend just 10 miles of my parents. He brought along a portable transceiver, and I was still mesmerized.

In 1952, Ann (my XYL), and I moved to Bloomfield, NJ for 4 years before returning to Long Island where we had both lived since childhood. (Although as kids, Ann and I lived just a few blocks away from each other as children, neither of us recall of ever meeting the other.) However, fairly early in our NJ time, I visited the FCC in New York City, and passed the Novice Test.

At that time, there were no friendly *Volunteer Examiners* like there are now. It was either travel to the FCC or forget it (there was, however, a special licensing arrangement for those who lived over 125 miles from a FCC office). In those days, there were no Q&A Pools to study, you simply read and remembered as much as you could and hoped for the best.

The Novice test had two parts, a written test and a 5-wpm code test. When you passed this test, the FCC issued a license which was only good for "CW" and it was only good for 1 year. Within those 12-months, you had to increase your code speed to 10-wpm ... or your license was void with no renewal. Now, that was a genuine incentive program, and so I spent a few months on CW using a strait key.

At that time, all transmitters were crystal controlled which means they only worked on single frequency – so while you could tune the band to listen, you could only transmit on one fixed frequency. In those days, calling CQ was in many ways quite similar to calling for help while in the wilderness – and it was very, very different than these days.

A few months later, I paid another visit to the FCC, I passed a higher speed code test, I dropped CW, and I immediately got on Phone. My original call was KA2AMN, but with my upgrade the FCC changed it to K2AMN.

In 1953, transmitters and receivers were separate units and both were very large. The transmitter (now a souvenir) measures 21" wide, 11" tall, and 15" deep .... and that was just a transmitter which was only good for a one fixed frequency per setting). Both the transmitter and receiver operated on 110-volts AC, and all transmitters

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were crystal controlled. So, whenever I wanted to call CQ on either Phone or CW, I keyed the transmitter and my call was something like: "Calling CQ, CQ, Calling CQ, this is Kilo Two Alfa Mike November, K2AMN".

This sequence was repeated several times, before ending with the phrase, "This is K2AMN tuning the band." Then I would s-l-o-w-l-y turn the receiver dial from the very bottom of the 10M Band, to the very top of the 10M Band listening for my call sign. And, if I didn't hear it, I would simply "do it all over again". A quick look at my first log, shows large time gaps between each QSO – and that is a very clear reminder for me of those days.

In NJ, we lived in a two-story apartment building which had a very high peaked roof. There were 2-apartments on each floor, and a center stairway which was perfect for our becoming great friends with the other 3 family's. It turned out the peaked roof was very accessible with a step-ladder, and the good news was a very large peaked roof - one that turned out to be very well suited for a full half-wave 40M dipole which was installed with no management involvement (part of the ham saying, "It's better to apologize than it is to ask permission". (When we moved from there, the antenna was left behind. I wonder if anyone ever found it, or another ham moved in later and got to use it.)

Operating a transmitter from a car, however, was a totally different bag of snakes. You see in those days, transmitter didn't operate with 12-V DC, they all used 110-V AC. In *World War II*, the same problem existed for trucks, tanks, etc. – and it was solved with a DYNA-MOTOR which converted low DC voltages into 110-V AC voltages. The DYNA-MOTOR was about 15" long, 7" wide, & 9" high. In the post-war period, there were an enormous number of different parts, transmitters, receivers, etc. – all sold by a large bunch of stores (all with huge outdoor displays) located on Canal Street in downtown Manhattan.

Once the Dyna-Motor was installed, the trick was to run a 110V-AC line from the engine area to the transmitter located next to the driver's seat (one fellow had his on the floor behind the driver's seat, and occasionally he would drop off the air ... it seems he had everything hooked together with clips which occasionally disconnected ... and then he'd be off the air for 10 minutes or so).

Hams also had to decide where they wanted their signal to be located. For local hams who wanted to "chew the rag" with each other, they would simply get crystals for exactly the same 10M frequency (no 2M in those days). This allowed our local gang to have daily "round tables" while driving to work. Being on the east coast, we even had the pleasure of a fellow in England checking in with us every morning – and he was with us for quite a few months. (In retrospect, his being there every day seems very strange, now that I live in California.)

And, we also had T-Hunting. These were held at night-time during the week. We all used by-directional loop antennas (about 14 or so inches in diameter). This really worked well for everyone especially since we started all hunts from a spot on the south shore of Long Island where the Atlantic Ocean was at our backs, we knew the hidden T always had to be somewhere toward the North Shore. Everyone either found the hidden T most of the time - or at least got very close. Hunting at night really did increase our dependence upon getting very close. There was none of this, "Oh, I see him!" stuff.

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

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	Earl Palmer, N7EP	<a href="mailto:earl_palmer@msn.com">earl_palmer@msn.com</a>	206-818-9246	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

**7<sup>th</sup> Call Area QSO Party Results**

By Michael Dinkelman N7WA



On the weekend of May 5-6<sup>th</sup>, several of our intrepid club members trekked over the K7LED Superstation where they made contacts in an effort to propel the Mike & Key ARC to the top of the M/S LP classification. Alas, the 3830 score rumor page says we've been 'bested' by N7MAL of the Arizona Outlaws but I think our team made a valiant effort anyway. Following are the current score for our classification and the breakdown of the K7LED entry.

I think everybody had fun - I know I did - and it gave me a break from burning a big pile of debris left over from the ice storms (though I must have smelled like a chimney). Many thanks to those who came out and made an effort; Monica KF7QLX, Steve KD7IQL, Robert KD7WNV, and Tim K7ANE. By the way, we worked the majority of WAS, missing only New Hampshire, Maine, Delaware, Oklahoma, Alaska, and Hawaii. We also worked a couple DX stations. Not bad for only about 8 hours work.

Call	CWQ	PhQ	DgQ	Mult	hr	Score	Club
<b>7<sup>th</sup> District M/S LP</b>							
N7MAL	380	0	0	58	7	66,120	Arizona Outlaws
<b>K7LED(@N7WA)</b>	<b>170</b>	<b>83</b>	<b>0</b>	<b>46</b>	<b>8</b>	<b>30,912</b>	<b>Mike&amp;Key ARC</b>
KF7IUH	0	125	250	32		8,000	Arizona Outlaws
KC7V	50	0	0	26	2.5	3,900	Arizona Outlaws

Call: K7LED  
 Operator(s): KF7QLX, KD7IQL, KD7WNV, K7ANE, N7WA  
 Class: M/S LP  
 Operating Time (hrs): 8

**Summary:**

Band	CW Qs	Ph Qs	Dig Qs
160:	0	0	0
80:	0	0	0
40:	76	27	0
20:	45	53	0
15:	47	3	0
10:	2	0	0
6:	0	0	0
2:	0	0	0
<b>Total:</b>	<b>170</b>	<b>83</b>	<b>0</b>

Mults = 46 Total Score = 30,912



**FD'12: It's A Work Party!**

By Ivy Nelson-Groves WA7IVY

We will have a work party to work on the tower trainer on May 19th after the general meeting at Alan's (KB7SVU) home at 2pm. If it is expected to rain, we will meet on May 27th at 10am.

## Renton Food Bank – Postal Food Carrier’s Food Drive

By Jim Etwiler – KD7BAT

*A sunny afternoon, a cool breeze off the lake, and pleasant company* treated the Mike and Key members who helped the Salvation Army sort the 30,000 plus pounds of food delivered to the Food Bank in Renton on Saturday, May 12<sup>th</sup>. Participating from the Mike and Key ARC were **Kathy Martin – KB7QMO, Dick Radford – WA7NIW, Mike Dinkleman – N7WA, Al Hopwood – KB7THX and his wife Becky, Eric Snyder – N7DLV, Dan Humphrey – N7QHC, Dawn Humphrey – KC7YYB, Gary Anderson – KF7TBC (member applicant), and Jim Etwiler – KD7BAT.**

The team outside emptied the trucks, removed the food from the plastic bags, and sorted it into general categories of canned and dry food. They then placed it into bins on pallets to be moved inside for later refined sorting. This team was primarily Mike and Key and Boy Scout Troop 407 with other volunteers. The other team, mostly of Boeing employee volunteers worked inside refining the sort of food for the Food Bank (vegetable, meat, pasta, etc.). This allows the food bank to better distribute a balanced diet to their clients.

The photos below were taken while waiting for the next truck load to arrive. Many friendly conversations were held.



Photos by Michael Dinkelman – N7WA

## Wear the Mike & Key Club Logo

By Jim Aigner N7MU

You may have noticed the Mike and Key logo prominently displayed on fleece jackets and an assortment of shirts. Our Club logo was digitized into two sizes, a small version for the chest suitable for embroidery on the front of shirts, vests, and jackets and a large version for use on the back of sweatshirts, vests, and jackets.

You can buy new clothing with the club logo or have your own items embroidered by a vendor or do it yourself. There are a few vendors who have our logo and can do the work for you. You can find just about everything - shirts, vests, sweatshirts, and jackets in the online catalog: <http://www.sanmar.com> . Prices with the logo are about 10% less than catalog list prices.

If you have questions, see a Logo Committee member: Jim Aigner N7MU, Dawn Humphrey KC7YYB, or Dan Humphrey N7QHC. Let's continue to wear the Mike and Key logo proudly at club meetings, the summer picnic, and Field Day.

## Pacific Northwest Hamfairs & Events

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

**May 12, 2012. Stanwood Camano Amateur Radio Club Hamfest, Stanwood Middle School, Stanwood, WA. This is an ARRL sanctioned event. Contact Vic, N7KRE (360)387-7705 [nwecop@tgi.net](mailto:nwecop@tgi.net) . <http://www.scarcwa.org/> Flyer in PDF (212K)**

**May 18-20, 2012. Washington State Search And Rescue Conference. Goldendale, Washington. <http://wasar2012.org/Home.aspx> On-Line registration.**

**May 18-20, 2012, Pateros 13th Annual Ham Radio, Campout/Potluck. Pateros WA. Free "dry" camping. Always on the 3rd Saturday in may - Victoria Day weekend. <http://lakechelanradioclub.com/> Info, Roger Odorizzi [w7ch@arrl.net](mailto:w7ch@arrl.net) (509)687-3919.**

**June 1-3, 2012. Sea-Pac Hamfest. On-line registration for SeaPac is now open. Seaside Convention Center, Seaside, Oregon. This is an ARRL sanctioned event. [SEAPAC@seapac.org](mailto:SEAPAC@seapac.org) . [www.seapac.org/](http://www.seapac.org/) .**

**June 2, 2012. Third Biennial Swapmeet. Arrowsmith ARC. Port Alberni British Columbia [http://rac.eton.ca/events/detail.php?event\\_ID=1542](http://rac.eton.ca/events/detail.php?event_ID=1542)**

**June 8-10, 2012. 43rd Annual Wenatchee Hamfest. Apple City ARC. Dryden Gun Club. Dryden, WA. This is an ARRL sanctioned event. This is RV and family oriented event located approximately five miles east of Leavenworth, WA. If you do not want to camp, there are numerous motels in the area. Contact Jim, W7JBP at [shultzjims@aol.com](mailto:shultzjims@aol.com) or Judy, at [ka7zna@msn.com](mailto:ka7zna@msn.com) for information. <http://www.qsl.net/w7td/> . Flyer in PDF. (288K)**

**June 9, 2012. KARS Hamfest. Kootenai Amateur Radio Society. Post Falls, ID. This is an ARRL sanctioned event. Always the 2nd Sat in June. For information contact Bonnie, KG6QQM, 208-683-2939 or [KG6QQM@ARRL.net](mailto:KG6QQM@ARRL.net) or John, [n7ju@arrl.net](mailto:n7ju@arrl.net) Flyer in PDF. (916K)**

**June 9, 2012. Port Ludlow ARC tailgate swap meet. Port Ludlow, WA. <http://www.n7pl.org/>**

**July 4-7, 2012. Mobile Amateur Awards Club (MARAC) national convention. Vancouver, WA. <http://www.marac.org/>**

**July 13-16, 2012. SalmonCon. Pacific Northwest QRP Group annual weekend outing. Valley Camp, North Bend, WA. Flyer in PDF. (95K) Contact Wayne [NB6M@Comcast.net](mailto:NB6M@Comcast.net) .**

**July 20-22, 2012. Glacier Waterton International Peace Park Hamfest. Glacier Meadows Campground, 13 miles west of East Glacier on MT Hwy 2. [www.gwhamfest.org](http://www.gwhamfest.org) .**

[Statements as posted on the Website: "Please email any comments, corrections, questions, etc. to [n7cfo](mailto:n7cfo) (at) [n7cfo.com](http://www.n7cfo.com)." N7CFO-Disclaimer: "I do my best to keep up with scheduling changes on these events, but there is always the chance that one will be canceled or re-scheduled and I will not find out about it. Please verify all dates and locations with the sponsor."]

May 2012

## M&K General Meeting Minutes

Ivy Nelson-Groves WA7IVY, Secretary

Meeting held 20 February 2010

Meeting was called to order at 1000 hours by the President, Robert KD7WNV.

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: Report was in the *Relay*. There is a study being conducted in the usefulness of Amateur Radio in Emergency Preparedness, and a part of that is a very short comment period in which we can discuss how CCRs and other restrictions impact emergency communications by ham radio operators. Robert encouraged the membership to participate in this comment period.

**Secretary** – Ivy WA7IVY: No report

**Treasurer** – Dave KB7PSN: The club's books are in good order. Dave will not be here at the meeting in June and Carolyn will be filling in. The Flea Market audit will be conducted at 9:15 prior to the next General Meeting.

**Activities Manager** – George AE7G: Today's program is on the Salmon Run. We will have the Field Day presentation in June.

**Chairman of the Board** – Tim K7ANE: No report.

**Radio Officer** – Hal N7NW: The repeater is function, although we are still having an inter-mod problem. The snow is melting on most of Tiger Mountain, so it won't be long before we can go up and look at it. Hal encouraged the membership to utilize the 220 repeater. There has been a problem with some people on the repeater not identifying themselves with call signs; we don't know who they are and if they are actually licensed. Please ignore these folks and don't talk with them. If you happen to hear them, and can get a direction on them, please send this info to Hal.

Quorum present.

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

Sam N7RHE made a motion to approve the minutes. Michelle WA7PVE seconded the motion. Motion passed.

**Vice President** – Kathy KB7QMO: Membership applications: Howard Hultgren KE5OEZ, Randy Diddel K5RHD, Michael Jacobs KD7TWH, Steve Daylong KF7JWT. All approved by the membership.

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

**Webmaster** – Jim KD7BAT: Jim thanked the membership for their Relay articles on behalf of Gary KG7KU.

**Standing Committee Reports:**

**Strategic Planning** – Mike N7WA: Mike is looking for members to join the committee.

**Facilities** – Daniel KL7WM:

**Education** – Tim K7ANE: The Skywarn training class is filled for next week; a Tech class will be held 9-10 June, contact Radio Club of Tacoma; ACES emerge will be conducting communications classes; SEAPAC 1-3 June in Seaside Oregon; WA State Search and Rescue Conference 18-20 May. Tim said that we have 4 new books coming in for the library – look for the article in next month's relay. There is an extra class coming up through the Red Cross; details

**K7LED Relay**

are on our website. Anyone who wants to join the training committee, please see Tim.

**Public Service** – Robert KD7WNV: Several upcoming events, Tour de Cure on May 12<sup>th</sup> – contact Dale for more info. May 5<sup>th</sup> is the beginning of the boating season, and Dick needs some help for the boat races. May 17<sup>th</sup> parade in Ballard needs radio operators, contact Liz Budbill.

**Technical** – Gil W7GIL: Looking for ideas for the committee.

**Other Committees** (as appropriate):

**VE Exams** – Scott AG7T: Had 11 people attend testing last month. Awarded 7 Technician, 3 General, and 1 Extra.

**Flea Market** – Hal N7NW/Mike N7WA: If anyone has any comments about this past year's Flea Market, please send these to Mike and Hal. We just sent in the paperwork for next year's flea market to be held on March 9, 2013. If anyone is interested in chairing a position, let Mike and/or Hal know.

**Field Day** – Ivy WA7IVY: We have all the chairs filled for this year's field day. Dick WA7NIW has the reservation copies for folks who will be staying at the Wagon Wheel. Please contact Rita as soon as possible for Barracks reservations. Tim K7ANE is our points chair and needs to know if anyone knows an elected official we can get to come to Field Day as well as a served agency representative. Robert KD7WNV and Ivy WA7IVY are working on a satellite committee to get extra points. Also if anyone has experience with message handling, we have 11 messages we need to send for bonus points as well.

**By Laws Review** – Dave KB7PSN: Dave has distributed the comments from the last meeting, and they will be having a meeting soon to go over proposed changes.

**Logo** – Jim N7MU: We have several vendors who can personalize garments for a reasonable price. If anyone needs badges, please see Dan and Dawn.

**Awards Committee** – Scott AG7T & Dick WA7NIW, Gary KG7KU: Gary is the newest member of the Awards Committee.

**Picnic** – Hal N7NW: The picnic will be in August at the regular club meeting, Gene Coulon Park shelter, in the same location as last year.

**Alligator Award** – Mike W7XTZ still holds the award.

**Old Business:** No old business.

**New Business:** No new business.

**Good of the Order:**

**Mike N7WA:** May 5<sup>th</sup>, 7<sup>th</sup> District QSO party. They will be using the club callsign and invite anyone to come down that Saturday at Mike's house. There are more details in the relay.

**Jim KD7BAT** mentioned that May 12<sup>th</sup> is the Letter Carriers Food Drive, and the Salvation Army could use folks to help sort things out starting at about 2pm at 706 Tobin Street. Jim will put details on the reflector.

**John NU6A** is trying to getting rid of the 6 in his call sign, but he has to wait before he can get a new call because of a lack of 2x1 and 1x2 callsigns in our region. He recently found a source of RFI on 10-80 meters that PSE identified as coming from Direct TV or Xfinity/Comcast. He is still working on getting relief, but it probably not be solved by the FCC.

The next Mike & Key Board meeting will be on the first Tuesday of the month, May 1st at 7:00 pm, location to be determined.

The next Mike & Key General Membership meeting is the third Saturday of the month, May 19<sup>th</sup>, 2012.

Scott AG7T made a motion to close the meeting. John WA7HQQ seconded the motion. The motion was passed. Meeting adjourned at 1117 hours.

16 guests; 68 members, 61 ARRL members

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

# M&K Board Meeting Minutes

By Ivy Nelson-Groves WA7IVY, Secretary

Meeting Held 1 May 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
	Radio Officer	Hal Goodell N7NW
Trustees present		
X	No. 1	Mike Dinkelman N7WA
	No. 2	Kathleen Weiss KF7MUD
X	No. 3 CoB	Tim Kane K7ANE
X	No. 4	Gil Drynon W7GIL
X	No. 5	Daniel Stevens KL7WM
Other officers (non-voting)		
	Relay Editor	Gary Bryan KG7KU
	Webmaster	Jim Etwiler KD7BAT
Visitors		
	Alan Hughes	KB7SVU
	Steve Cook	KD7IQL
	Toku Okumura	AD7JA
	Chuck Stroehrer	WA7EBH

Chairman of the Board Tim Kane K7ANE called the meeting to order at 7:06 p.m.

**Minutes:** A motion was made to approve the minutes as published by Gil W7GIL and seconded by Robert KD7WNV. Motion passed.

**Officer Reports :**

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

**Vice President – Kathy KB7QMO:** Membership applications for consideration: Stephen Marth WB7AAV; Steve Stout KB7AF; Gary Anderson KF7TBC; P. J. Hicks N7PXY; B. Michael Walsh KF7VCW.

A suggestion was made by Mike N7WA that once we approve someone on the board, we can send a postcard to them to remind them to show up so the membership can vote on them. Kathy also mentioned that it is easy enough to send email as well. Kathy will take this under advisement and consider next actions.

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

**Treasurer – Dave KB7PSN:** Budget status was published to the board for the month of April. Flea Market audit will be coming up before the May general membership meeting. Dave will not be at the June general meeting, so Carolyn WV7Q will filling in for him.

**Activity Manager – George AE7G:** George cannot make it to the next meeting, so Tim will be handling the tickets. Ivy WA7IVY will move up the Field Day presentation to May, and will make the presentation available on the reflector as a PDF.

**Radio Officer – HAL N7NW:** Not present. Hal’s report was read by email. There is a constant noise on the repeater, and he is working on the problem and may have identified the source. He will be back up on the mountain on Sunday and hopes to have the problem resolved shortly.

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

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

**Standing Committees:**

**Strategic Planning - Mike N7WA:** Mike has had two responses for folks who would like to join the committee. Mike is still looking for more folks.

**Facilities - Daniel KL7WM:** No report.

**Education & Training - Tim K7ANE:** ACES training this weekend and the following weekend; Tim thinks there is still room in the class. Four new books have been purchased for the library and will be here at the next general meeting.

**Public Service - Kathleen KF7MUD:** Not present. Robert KD7WNV mentioned that there are a few major events coming up in the next month. A request was made by Ward Silver for our Public Service pamphlet template and Robert will be sending it to him shortly. Courses for ICS 300 and 400 are being held by King County and Fire District 3 on several different dates coming up.

**Technical - Gil W7GIL:** Gil found a member for his committee.

**By Laws – Dave KB7PSN:** Dave will be sending an update to the current committee members.

Logo committee: no report

**Field Day – Ivy WA7IVY:** We will have a work party to work on the tower trainer on May 19<sup>th</sup> after the general meeting at Alan’s (KB7SVU) home at 2pm. If it is expected to rain, we will meet on May 27<sup>th</sup> at 10am. Alan KB7SVU discussed the gin pole. Daniel KL7WM made a motion to purchase the gin pole clamp and pole, George AE7G seconded, motion passed. The gin pole will be used for club activities only; for liability reasons, this item will not be loaned out to the membership. Alan also looked for a tower jack. Motion was made by Daniel KL7WM to purchase a tower jack and George AE7G seconded; motion passed. The tower jack will be used for club activities only; for liability reasons, this item will not be loaned out to the membership. We are still looking for an elected official and a served agency representative; we have not had confirmation. Several suggestions were made.

**Old Business:** No old business.

**New business:**

Steve KD7IQL wanted to know how many 2 meter calibrators the club now possesses, and if one is missing. This will be brought up to the Radio officer.

**Good of the Order:**

Mike N7WA brought up the fact that we may be contacted by someone who may be asking a donation of equipment from our membership.

There being no further business, the Chairman of the Board adjourned the meeting at 8:15 pm.

Attested: Ivy Nelson-Groves WA7IVY, Secretary



## M&K-K7LED Club Library

By Tim Kane – K7ANE

### Good News – New Books!

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 super-heterodyne 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 radio navigation 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 – May / June

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<b>13</b> 1700 – NWWA-LDS Net 147.34 (Weekly) 2000 – King Co. ARES Net 147.08 (Weekly) 2015 – Kids Net 145.49 (Weekly)	<b>14</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>15</b> 2000 – Seattle Red Cross Comm Team Net 147.080 (Weekly) 2000 – Snohomish Co. ACS/RACES Net 146.92 (Weekly)	<b>16</b> 2000 –Evergreen Intertie Gen/Tech Info Net – 145.33 (Weekly) 2000 – Educational Radio Net – PSRG 146.96 (Weekly)	<b>17</b> 1900 – M&K Public Service Net 146.82 (Wkly) 2000 – Computer & Packet Net 145.33 (Wkly) <b>Public Service: Syttende Mai Parade (Norwegian Ind. Day) – Ballard</b> <a href="mailto:hamsignup@seafairparademarshals.org">hamsignup@seafairparademarshals.org</a>	<b>18</b>	<b>19</b> <b>1000–M&amp;K Club Meeting, Renton</b> <b>1230– M&amp;K Ham Radio Exams, Renton.</b> <b>Scott- <a href="mailto:aq7t@arrl.net">aq7t@arrl.net</a></b> <b>1400-FD Workparty – Puyallup</b>
<b>20</b> 2200 – NW Astronomy Net 145.33 (Weekly) <b>Public Service: Capitol City Marathon – Olympia. Vaughnn-<a href="mailto:vaughnnl@gmail.com">vaughnnl@gmail.com</a></b>	<b>21</b> 1900 – Seattle ACS Net 146.90 (Weekly) 1930 – PSRG Net 146.96 (Weekly) 2000 –YL Net 145.33 (Wkly)	<b>22</b>	<b>23</b> 2100 – NWSOAR Net 146.82 (Weekly)	<b>24</b>	<b>25</b>	<b>26</b> 0900 – WA State Emerg. Net (WSEN) ARES HF Net 3.985 (Weekly)
<b>27</b> <b>1000-FD Workparty – Puyallup – Alternate date</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>	<b>01</b> – JUNE – <b>Public Service: [ June 1-3 ] WA Special Olympics – JB/Lewis-McChord. John-caverlyj@gmail.com</b>	<b>02</b> <b>Public Service: [June 1-3] WA Special Olympics – JB/Lewis-McChord. John-caverlyj@gmail.com</b>
<b>03</b> <b>Public Service: [June 1-3] WA Special Olympics – JB/Lewis-McChord. John-caverlyj@gmail.com</b>	<b>04</b>	<b>05</b> <b>M&amp;K Board Mtg</b> Salvation Army Bldg Renton, 7pm	<b>06</b>	<b>07</b>	<b>08</b> <b>Relay Articles Due – 23:59:59</b>	<b>09</b> <b>Public Service: Sound To Narrows Run – Tacoma Judy- <a href="mailto:k7kxo@hotmail.com">k7kxo@hotmail.com</a></b> <b>Public Service: Flying Wheels Century Ride – Marymoor Park, Redmond. Contact: Dale KC7VLM, <a href="mailto:AlanBJones@frontier.com">AlanBJones@frontier.com</a></b>
<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b> <b>1000–M&amp;K Club Mtg</b> <b>1230– M&amp;K Ham Radio Exams, Renton.</b> <b>Public Service: Strawberry Festival Parade – Marysville. Liz-<a href="mailto:hamsignup@seafairparademarshals.org">hamsignup@seafairparademarshals.org</a></b>
<b>17</b>	<b>18</b> <b>M&amp;K Field Day – Wagon Wheel Opens</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b> <b>M&amp;K Field Day – Setup &amp; Dinner, Fort Flagler State Pk</b>	<b>23</b> <b>M&amp;K Field Day Ops, Fort Flagler State Park,</b>