



*From our Club President...*

**National Preparedness Month**

By Ivy Nelson-Groves WA7IVY, President

Most of us ham operators tend to be 'more prepared' than many of our neighbors in case of emergency. Being able to provide communications in an emergency is the reason many of us became amateur radio operators. Many of us are involved in our local ARES/RACES groups.

But **preparedness** means more than making sure your handy talkie has its batteries topped off.

How many of you have taken a First Aid class recently? Community Emergency Response Team (CERT) training? Have you got your Bug-Out Bag ready to go? Are your pets ready for an emergency? Take some time and plan what you and your family will do in case of an emergency.

Here in the Northwest, our disasters tend to be "come as you are," unlike the hurricanes where I grew up that gave you about a week to get ready. Earthquakes, windstorms, volcanoes, fires, floods and ice storms never really give us much of a warning, so it is important to be ready.

Here are a few resources you might take a look at:

**Ready.gov:** <http://www.ready.gov/>

**King County:** <http://www.kingcounty.gov/safety/prepare.aspx>

**Regional Public Information Network:** [www.rpin.org](http://www.rpin.org)  
(covers King, Pierce and Snohomish counties).

It may seem like an overwhelming task at times, but the best way to prepare is to do a little at a time. Most of us can't afford to spend a lot all at once, but a few things every week or month can go a long way to making sure we have what equipment we need. Just in case.

See you on the 18<sup>th</sup>...

**'BEAT THE HEAT' PICNIC AT THE BEACH**

By Hal Goodell N7NW

**What a turnout we had for the annual picnic!!**

Thanks to all for attending. We even had enough for a *Quorum* which allowed three new members to be voted in. I know I had over 50 signed up and there were a few more that showed up.

We arrived at 8:30 to set up and found Toku AD7JA and a few others had all ready arrived. That made setting up really easy. Toku had brought this BBQ and fixed some fantastic BBQ corn. What was the sauce you put on the corn Toku? Delicious indeed!!

*[Continued on Page 4]*

*From the 'Blog' of Rich Hand K7RFH...*

THURSDAY, SEPTEMBER 9, 2010

**Volunteering for the Red Cross**



Back in July 2010, I volunteered to be a member of the King and Kitsap American Red Cross Communications Team. As of this writing, I am completing the various steps to be an active volunteer.

Why did I volunteer? I am originally from the East Coast, specifically New Jersey and even more to the point a small town called Rio Grande. Rio Grande is about 3 miles inland from the Atlantic Ocean and at about the same elevation as the local beaches.

In 1960 we were hit with hurricane Donna and the Red Cross's actions left me with a mission of one day giving back to the organization. It has been a long time between hurricane Donna and this moment, but the need still exists, so now is the time to give back.

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

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



**Postal Address:**  
P.O. Box 4234  
Renton, WA 98057-4234

**Web Site:**  
[www.mikeandkey.org](http://www.mikeandkey.org)

**Send dues to:**  
Mike & Key ARC  
P.O. Box 4234  
Renton, WA 98057-4234

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

**Email:**  
info @ mikeandkey.org

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

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

## Club Contacts

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<b>No. 2 (CoB)</b>	George Thornton	AE7G	GTLAW @ seonet.com	206-920-7072
<b>No. 3</b>	Michael Dinkelman	N7WA	n7wa @ arrl.net	253-631-3756
<b>No. 4</b>	Alan Hughes	KB7SVU	kb7svu @ junos.com	253-840-4947
<b>No. 5</b>	Daniel Stevens	KL7WM	KL7WM @ arrl.net	206-228-9274
<b>Logo Committee</b>	Dan Humphrey & Dawn Humphrey	N7QHC KC7YYB	n7qhc @ arrl.net	206-243-0163
<b>Webmaster</b>	Jim Etwiler	KD7BAT	kd7bat @ arrl.net	206-633-1512
<b>VE Testing</b>	Scott Robinson	AG7T	ag7t @ arrl.net	425-788-0452

### Mike & Key Online -- Several Club resources are available online:

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

**Reflector** — The Club's public message board offers an easy and free way to converse with Club members. To sign up, surf to: <http://groups.yahoo.com/groups/mkarc> .

**E-Relay** — You will also save the Club some money in printing and postage costs. To sign up, send a message to the *Relay* Editor: kg7ku @ arrl.net.

## M&K September Meeting & Activities

By Jim Aigner N7MU, Activity Chair

The Picnic is back! This once anemic summer event is back and in good health thanks to the perseverance of Dave Smith KB7PSN and the work of Hal N7NW, Annie, Greg W7HRC and Linda. It was great to see so many happy faces for the picnic at Coulon Park. The picnic's revival mirrors the success of last year's holiday party. It's nice to see those old traditions surviving.

September means back to school and busy schedules again. Mark your calendars for our fall meeting dates since we have outstanding programs planned along with wonderful door prizes. Phil DeCaire WB7AEI from the Boeing BEARS will speak at our September meeting on one of the topics you have asked for: "Propagation Prediction Tools for Everyone." He made this presentation before and it stirred up lots of interest. In addition to talking a bit about HF propagation, he will demonstrate three propagation prediction programs: W6ELProp, Ham Cap, and VOAProp. Look for the companion article in the Relay next month. And, in the spirit of the season, sharpen your pencils, do your homework, and be on time for this class.

October and November will feature programs just as informative and interesting. Matt Kozma AE7MK will talk about APRS, the Automatic Packet Reporting System. Matt is from the Maple Valley ARES team and is active in Search and Rescue operations around Puget Sound. The November program brings back a familiar face with Scott Robinson AG7T treating the issues of Solar Cycle 24 and radio propagation. As part of a speaker exchange, Scott will be making this presentation to the Maple Valley ARC group as well.



The door prize pool has swollen with the donation of Lee's antenna mast kit, a hefty battery from Stephen Luke KB7FGV, and several items from the estate of a ham who was not a club member. These used items will show up as prizes during the next three or four months. **Don't forget – the "mystery box" makes its appearance this month.**

Door prizes this month include Lee's antenna mast kit, Stephen's like-new Werker 12v 26aH AGM battery, an MFJ 1778 G5RV antenna, an Alinco DM1350T 35A metered power supply, a Stecca 12/24v solar charge controller, 3 Yaesu caps and log books, some DC zip cord, powerpoles, and fuse holders.



See you Saturday- don't be tardy.

### Another Radio for the Big End-of-Year Drawing



This rugged little Yaesu 2-meter handheld is a good starter radio for the new Technician. It puts out 5 watts in its HI power setting. Included are the radio, a charging cradle, a power pack, and the manual. It has the basic features you'd expect in a modern handheld – 209 memories, tones, repeater offsets, and direct frequency entry from the keypad. This is one of several great prizes to be drawn for at the December meeting. If it looks familiar, it's because we gave one away last year.

Door prize tickets purchased from December 2009 through November 2010 are eligible for this end-of-year drawing. Tickets sold for the regular December monthly door prize will be eligible for the following year's end-of-year drawing. Make sure you have tickets in the pool for this. We'd love to give it to you. Good luck. -Jim Aigner, N7MU

## FleaMarket Committee Meeting

By Michael Dinkelman N7WA

With the beginning of Fall, it's time to start thinking about the 2011 Mike and Key ARC Fleamarket... and, **NO, we did not sell it to the Radio Club of Tacoma.** The first meeting will be at the Dinkelman residence on October 12<sup>th</sup>, at 7PM. (22222 148<sup>th</sup> Ave SE Kent, 98042) This meeting is the second Tuesday of the month. We used to hold these meetings on the first Tuesday of the month but too many of the Fleamarket Committee members ended up on the Board last year. Goodies will be served. This meeting will be a review of last year's event and kick off the planning for 2011.

Chairpersons from last year's event should let Hal/N7NW or myself know if they will be returning or not for this year. I expect we'll need a new Ticket Chair as last year's is now the Treasurer. This meeting is open to all interested Club members whether you wish to chair an area or not. **[Continued on Page 4]**

**September 2010**

**FleaMarket Committee...[Continued from Page 3]**

Be advised, however, that you may come under intense pressure to do so, if we need someone. Otherwise, it's just a great way to learn about the largest source of funding for this Club.

You should also start thinking about signing up as a worker. The worker signup book will start showing up at the October Club meeting. Why wait? You know that I'm going to make you sign up eventually. Take the pressure off me and yourself – SIGN UP EARLY!

Oh, that eternal question... when is the Fleamarket? It's probably NOT when you think it'll be as New Years day falls on a weekend this year. That moves us out to the 11<sup>th</sup> weekend of the year. Mark your calendars and put in your vacation requests in NOW for Friday March 11<sup>th</sup> and Saturday March 12<sup>th</sup> 2011.

Of course, if we could just get another Club to buy us out and supply us with enough money to last a couple decades we wouldn't have to worry about this... but then we would miss out on a heck of a lot of fun.

**'Beat the Heat Picnic...[Continued from Page 1]**



Members started arriving at about 9 for the usual pre meeting 'ragchew.' Thanks to Mike N7WA, for providing the Donuts. Ivy WA7IVY, conducted the meeting starting at 10 and got the necessary business out of the way. Then we got down to the important part of a picnic, and that's the eating!!



**K7LED Relay**

Thanks to Gregg, W7HRC, and his wife for doing the majority of the BBQing. Great burgers and dogs, I don't think anyone left hungry. There were bunches of side dishes and thanks to all for bringing them.

Lee KB7NBN, setup his portable antenna for a demonstration. Nice setup.

Lots of folks stayed around after the lunch for more visiting and enjoying the sun. Actually the weather did cooperate for us and it was a very nice day.



**My wonderful co-helper, Annie (my XYL) says we should do this again next year. What a trooper!!**

-- Hal N7NW

**'Want to play a game?'**

**Michael Dinkelman N7WA**

A couple years ago, we had an internal contest. If I remember correctly, it was first to WAS and first to DXCC and it was over way too quickly. That contest was suitable for the "hares" in the group. Now, I would like to suggest one for the "tortoises".

Ever look in QST or CQ Magazine and see those Special Event stations listed? You know, the annual Strawberry Festival in Podunk or the 53rd<sup>n</sup> Annual Celebration of Underground Sewers in Chickensack? Well, how about a year long contest to see who can make the most contacts with published special event stations? We can add a couple things to spice things up like a multiplier effect (states) plus make a couple of special event stations monthly Foxes (extra points for making contact and to be identified in this newsletter prior to the event.

Like last time, the goal is to promote HF activity and there will be prizes for the winner. Only this time, you won't be in a race but it'll be a chance to demonstrate your perseverance and radio skills. I have approval from the Board, now I need to know if there interest from the members? (I don't need to administer this if there is none.) Let me know by next month and I'll set down some written rules next month. If you have any suggestions for rules, let me know (especially for getting Tech's involved).

## M&K Club Repeater Report

By Hal Goodell N7NW, Radio Officer

The repeaters continue to operate fantastically well. There was a planned power outage on E. Tiger that lasted 3 days. Steve, KD7IQL, had the back up batteries ready to install. They were put in before the outage and we got a chance to test them out.

Power went off on Tuesday (24-Aug) at 10 am and was restored on Thursday (26-Aug) at 5 pm. A crew did go up on Wednesday with a generator and recharged the batteries. It was a really good test of our system. Looks like the Repeater can last somewhere between 36 and 48 hours on batteries.

'Thanks' to all who cooperated by keeping the ragchew to a minimum during this time. This is important in the event of an actual emergency need for the repeater.

Our 146.82 repeater has been used for several Public Service events this past month. Thanks to everyone for your cooperation with the net controls during this usage.

-Hal N7NW

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## The Mike & Key Club: 25 Years Ago

By Michael Dinkelman N7WA

What was going on in this Club 25 years ago this month? Here's a sampling:

- *We had repeaters on 6-meters and 220-Mhz (new out of the box!) but nothing on 2-meters*
  - *An Activity Evening was scheduled for October 3<sup>rd</sup> at Andy's Diner (near Longacres) in Tukwila.*
  - *The Club was meeting at the United Good Way Center in Renton.*
  - *The Board Meeting was held at WA7TAI's house (they rotated between Board member homes in those days)*
  - *The XYL of K7ND sent in a recipe for "Wacky Cake" to the Relay*
  - *We collected newspapers for a little extra dough (\$20 a ton)*
  - *The Seattle FCC Office moved to Bellevue*
  - *The VE testing system was in its infancy and a there were still questions about how it should be run. Ivan Lee (N7IL) was the local VE.*
  - *A Teletype Model 40/2 was for sale in the Relay - you furnish the modem and it's ready to go.*
  - *The membership of the Club stood at a whopping 65 individuals& dues increased to \$10*
  - *It was proposed that K7LED enter the ARRL Sweepstakes in November*
  - *The Club Picnic was September 22<sup>nd</sup> east of Kent (Hal was Chair again - along with Patti Sutton)*
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## Celebrate our September Members!

By Dave Smith KB7PSN, Treasurer

As of September 2010, these folks have been Mike & Key members for the number of years stated. Congratulations to all of you, and thanks for your participation and service.

*Each of you makes us who we are:*

Jack Burrell	N7ZS	30 Years
Betty Westby	N7UII	18 Years
John McGee	KI7OT	18 Years
Mike Foster	N7MF	16 Years
Robert Schweitzer	WB7QNB	15 Years
Charles Sundberg	KD7KFY	10 Years
Scott Robinson	AG7T	10 Years
Rachelle Gill	(No Call)	9 Years
Teresa Vaughn	AD7CT	7 Years
David Dow	W7DOW	6 Years
John Saunders	KD7UI	6 Years
Joel Lichtenstein	W8CQP	5 Years
John Marthens	NU6A	5 Years
Kristie Ghioni	KE7MYZ	3 Years
John H. Keene	KE7OND	3 Years
Jeff McDonald	K7FRC	2 Years
Fran Hamilton	W7FRN	1 Year
Steve Hatch	WA7DAD	1 Year

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## WANDERING

de Fred Roberts, W6TKV

To get licensed in 1952 as a Novice, I had to travel from Bloomfield, NJ to the FCC in downtown NYC, a much less friendly group than today's VE Teams. The test was a written exam plus 5 wpm code test. ***If you passed, you were granted the privilege to only operate CW.***

And, at that time, the FCC had a terrific incentive program for motivating Novices to upgrade. What was that? Well, Novices had to meet a higher code speed within 12 months - 10 wpm, I believe. If you didn't upgrade, your license expired ... no renewals. Gasp! That was a real incentive program!

In that era, transmitters were all crystal controlled with a plug-in for one crystal. So, transmitters were on a single frequency, but receivers covered the entire band. It meant a ham called CQ from "his frequency" would tune across the entire band to see if anyone was responding to his call. That's why all hams ended a CQ with the phrase "... and tuning the band." And, if you were listening to a QSO, you only got to hear half of the conversation. ***[Continued on Page 6]***

September 2010

K7LED Relay

**WANDERING... [Continued from Page 5]**

My 'home-brew' transmitter was a crystal oscillator with a coil for 80M and a 6L6 tube, a small DC power supply, and a big multi-band war-surplus receiver. My antenna was an 80M dipole which may still be in the attic of our 2-story apartment building. Fortunately, the building had a peaked roof and a large crawl space (there were 2 apartments on each floor and a center staircase with attic access). Of course, I asked no one for approval or advice - I just climbed up into the attic and installed my 80M center-fed dipole.

My very first 80M QSO was on 6/10/52 with W2CFW, Charles H. Peterson in Nutley, NJ - 8 miles away. His transmitter - Lysco 600', receiver - S-20 R, and a 135' end-fed antenna. His QSL is framed and hanging on my wall. And, I still have my Crystal Oscillator ... just in case, you know.

I upgraded within 4 months, and a Johnson Viking1 was built on our kitchen table and became the center of my attention. My ham shack shortly became shared with our first son - on to the mobile.

*More about that another day.*

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**Volunteering-Red Cross... [Cont'd from Page 1]**

Recently, I heard the Seattle Chapter was creating something called the **Reserve Corps - Communications Team Auxiliary**. The concept of the auxiliary is to provide supplemental communication capability during disasters to that of the normal Red Cross Communications Team.

When a disaster such as flooding, wind storms, power outages or earthquakes occurs, the Communications Team Auxiliary would be mobilized and work alongside Red Cross employees and fully trained volunteers. The Auxiliary program allows for recruiting, training and processing of amateur radio operators to meet the extraordinary emergency communications needs.

One point that was emphasized was if you already have a role in another organization's emergency communications, the auxiliary understands your primary responsibility would be to that organization. However, as an auxiliary member you will have cleared all the processing and credentialing for the Red Cross, so if you are available, you will be able to immediately assist with the Red Cross efforts.

**How do I get started?**

If you live in the King or Kitsap County area, once you sign up, there is one-day training and orientation class, provided free of charge, which details the basic skills required to assist the American Red Cross in a major local disaster.

**What would I do?**

You would be asked to provide emergency communications for the Red Cross King-Kitsap chapter.

You could be assigned to work in the chapter radio room or provide communications duties at command posts, shelters and in vehicles.

You might be assisting mass care workers in the assembly of radio kits and providing on-site training in the use of the radios as needed.

**How will I know what to do?**

The Seattle Red Cross Chapter office will provide the following:

- one hour orientation and paperwork session
- three hour "Fulfilling Our Mission" (AKA FOM) course
- two hour radio room orientation and Red Cross radio operations training session

Prior to the above training sessions, you will need to submit an online application which asks for your contact information and three references who the Red Cross Office of Volunteers will contact. There is also an online background check which gets completed.

Finally, there are several administrative processing requirements which happen during the one hour orientation listed above. These include:

- Signing a job description, photo release and intellectual property agreement
- Signing a local policy statement and code of conduct
- Getting your photo taken for your Red Cross identification badge

As you can see the processing takes some time. Therefore, having the Communications Team Auxiliary pre-processed and ready to go removes most of the bureaucracy and gets you helping others as rapidly as possible.

In addition to the personal satisfaction of helping others, the Communications Team Auxiliary members are eligible to take Red Cross Training, free of charge.

If any of this has sparked your interest, but you're not quite ready to sign up, send an email to **Lynn Burlingame** at [n7cfo@n7cfo.com](mailto:n7cfo@n7cfo.com) requesting more information about the local Red Cross Communications Team or Auxiliary.

Thanks for listening. Stay safe.

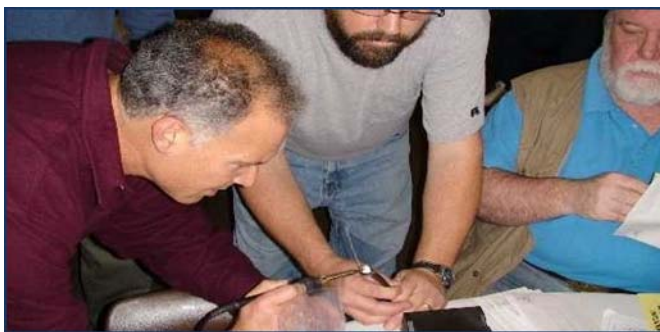
**Online Links**

Volunteer Application can be found at:  
<https://www.volgistics.com/ex/portal.dll/ap?AP=1641503136>

Lynn's email address is: [n7cfo@n7cfo.com](mailto:n7cfo@n7cfo.com).

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## Special Focus: Elmers' Corner... by Jim Aigner, N7MU



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

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

### PACIFICON 2010

Email received from Jon Bloom, KE3Z

#### ***PACIFICON 2010 Is Coming Soon!***

The PACIFICON Ham Radio Convention Returns to the San Francisco Bay Area -- October 15-17, 2010, San Ramon Marriott Hotel, San Ramon, California.

For Event Schedules, Latest updates & Ticket Sales go to: [www.PACIFICON.org](http://www.PACIFICON.org).

Call the Marriott Hotel Reservations Desk at 1-800-228-9290 before October 1, 2010, to ask for the special Pacificon rate of \$90/night.

#### **PACIFICON 2010 Events Include:**

- \*\* Friday All-Day Antenna Seminar
- \*\* Friday Legal Seminar
- \*\* Friday Evening Open MDARC Meeting
- \*\* Saturday Keynote Breakfast & Evening Banquet
- \*\* Outstanding Technical Forums
- \*\* Ham Equipment Exhibitors
- \*\* Great Swap Meet
- \*\* Daily Radio Prize Drawings
- \*\* ARRL Forum
- \*\* Transmitter Hunt
- \*\* ATV Activities
- \*\* HFpack Activities
- \*\* Ham License Exams
- \*\* Saturday All-Day Technician License Class
- \*\* Boy Scout JOTA

### MicroHams Digital Conference 2010

Email received from James Pace K7CEX

#### ***Registration is now open for the 2010 MicroHAMS Digital Conference.***

The 2010 MDC will be held on Saturday, September 18, 2010 from 08:00 (registration opens) to 17:00 on the Microsoft campus at one of their excellent conference facilities. Because the MDC is being held on Microsoft property, advance registration is recommended - not only is space limited, but there are only a limited number of same-day registrations available.

Registration is \$25 in advance (this includes lunch) and can be performed online at:

<http://www.microhams.com/registration/>.

The MicroHAMS Digital Conference is an official ARRL Conference. Presentations at the MicroHAMS Digital Conference draw heavily from local presenters to reflect both local interests and local Amateur Radio Digital technology development.

Presentations from past MDCs are linked from the MicroHAMS web page - <http://www.microhams.com>.

*[Continued on Page 8]*

**These are the 2010 MicroHAMS Digital Conference speakers currently scheduled:**

**Jeremy McDermond NH6Z** discussing High Performance Software Defined Radio (HPSDR) software being ported to run natively on latest versions (including underlying OS and graphical user interface technology) of Apple Mac OS.

**Stewart Kantor, CEO - Full Spectrum Networks**, which makes a Mobile WiMAX system called FullMAX that adapted for use on VHF and UHF spectrum. FullMAX capabilities encompass all Amateur Radio bands 50 MHz through 928 MHz with no modification, leading to the exciting potential of plug and play TRUE broad-band (mobile!) wireless capability on Amateur Radio frequencies. Stewart will explain how they adapted Mobile WiMAX technology, normally operated on frequencies such as 2.5 GHz (Clearwire), to VHF / UHF spectrum, including challenges such as narrowing the occupied channel of Mobile WiMAX to as little as 200 KHz.

**Andy Ruschak KK7TR** will discuss the use of P25 and digital voice in general in Amateur Radio. Andy will explain about the attributes of P25 (the interoperable standard for digital two-way radio for public safety) that are of particular interest for Amateur Radio operations, including potential interoperability, when needed, with public safety P25 systems.

**Lyle Johnson KK7P's** presentations are unfailingly fascinating, ranging from his experiences helping to found TAPR and the US Amateur Packet Radio movement, to hands-on development of hardware that has flown on a number of Amateur Satellites, to embedded Digital Signal Processor (DSP) technology, most recently for the Electcraft series of HF radios.

**Dan Smith KK7DS**, the father of the D-RATS software (which some consider a primary reason to deploy Icom's D-STAR digital radio systems) will be speaking on the latest developments in D-STAR (including the rapidly-evolving non-Icom D-STAR ecosystem) and integrating D-RATS with Winlink.

**Ward Silver NOAX** will be our official ARRL speaker. Ward is the author of numerous books relating to Amateur Radio, most famously, "Ham Radio for Dummies", one of the most accessible treatments of Amateur Radio as a whole for readers not previously exposed to Amateur Radio. In keeping with the "Digital" focus of the MDC, Ward will speak on "Protocols, Modulations, and Modes".

The cost of lunch is included with registration and is provided on site. By popular demand, the 2010 MDC has more space allocated to "show and tell" tables, and the 90-minute lunch period is specifically UN-structured to allow ample time for individual discussion and visiting the various show and tell tables.

In addition, a series of blog posts have been created to provide insight into the organization & planning process of the conference –

<http://www.microhams.com/digitalconference/>.

ARRL Western Washington Section  
Section Manager: James D Pace, K7CEX  
[k7cex@arrl.org](mailto:k7cex@arrl.org)

**Leavenworth Parade**

eMail received from Liz Budbill N7ZXH

Hi All,

*I am writing to let you all know that the parade in Leavenworth will still be held on September 25<sup>th</sup> but the Seafair Parade Marshals are not helping with the parade this year.*

*I know some of you are planning on going and I know I have reached everyone who had signed up with me, but I thought I should let you all know this way.*

*Leavenworth has a new group doing the parade this year and they say they have enough volunteers to handle the parade.*

*I want to thank all of you for every parade you have helped with this year and please check the calendar to sign up for any of the upcoming parades and events.*

--Liz Budbill N7ZXH

Deputy Vice Marshal of Communications  
Seafair Parade Marshals

**Take Down Your Wireless**

Contributed by Michael Dinkelman N7WA  
[Circa – WW-I. Original source unknown]

**Take Down Your Wireless**

**The Government Orders It As a War Measure**

Here's another opportunity for boys to demonstrate their loyalty and their scouting ability. In accordance with an Executive order issued by the President of the United States, it is illegal for any persons not authorized Government officials to operate a wireless plant or to have one in such condition as to be capable of operation. This applies to receiving as well as to transmitting stations.

Every Scout should dismantle his apparatus immediately. This means the taking down of the antenna wire, and the disconnecting and packing of the instruments.

Scouts should not only dismantle their own apparatus, but report to the local police department any stations aside from those they know to be Government stations which are in operation.



## September 2010 M&K General Meeting Minutes

Meeting held August 21, 2010

Meeting held at the Annual Picnic [Gene Coulon Park, Renton, WA] was called to order at 1028 hours by the President, Ivy WA7IVY.

**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** – Ivy WA7IVY: Nothing to report beyond what was in the *Relay*.

**Secretary** – Robert KD7WNV: The Treasurer checked the mail; there was none.

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

**Activity Manager** – Jim N7MU: Door prizes at the September general meeting include the 56' mast kit donated by Lee KE7NBN, and the "Mystery Box" makes its premier. The program will be on APRS [later rescheduled to October].

**Chairman of the Board** – George AE7G: Report is in the *Relay*.

**Radio Officer** – Hal N7NW: We have recently had some requests to use the 2-meter repeater for public service events, so please be aware when it is in such use. It is not exclusive, so if you need to use it, come up on the repeater and ask the event's net control. Today we will be rerouting all coax cables and putting in a new interface on top. It was down for about 10 minutes this morning, and will be down again for 30-45 minutes this afternoon. Next week, Tuesday through Thursday (August 24 – 26), the power will be off at the site. We are going up Monday to put in the battery backup, though they won't last the full three days. The site owner is trying to arrange a way to recharge during the day, but no guarantees.

**Quorum present.**

**Vice President** – Steve KD7IQL: New member applicants: Theresa Ann Edwards, K7TEA; Daniel Harrison, KF7JXZ, and Alinda Sue Harrison, KF7JXY (family membership). All approved.

**Relay Editor** – Gary KG7KU: Expressed his appreciation for all the submissions to the *Relay* in recent months.

**Webmaster** – Jim KD7BAT: Not present. Emailed his report to Ivy WA7IVY; she will post it to the Reflector.

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

Steve KD7IQL made a motion to approve the minutes; seconded by Vandy N7EAM. Motion passed.

**Standing Committee Reports:**

**Strategic Planning** – Daniel KL7WM: Not present.

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

**Education** – Tim K7ANE: Not present.

**Public Service** – George AE7G: Nothing to report.

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

**Other Committees:**

**VE Exams** – Scott AG7T: Had 7 people take tests in July. Awarded 3 Technician and 1 General. Will be testing at the Salvation Army HQ today--be there between 1215 and 1230 hours.

**Flea Market** – Hal N7NW/Mike N7WA: Nothing to report.

**Field Day** – Ivy WA7IVY: Nothing new to report.

## K7LED Relay

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

**Picnic** – Hal N7NW: It's happening!

**Old Business:** None.

**New Business:** None.

**Alligator Award** – Roy N7AVN: Not present, Ivy WA7IVY assumes that he retains it.

**Good of the Order:**

On Saturday, September 11<sup>th</sup>, there will be a ham radio Flea Market in Kent, just east of the Boeing Space Center, in the parking lot of the 2<sup>nd</sup> building behind the Hampton Inn. Fee for sellers is \$10; buyers get in free. Probable start time is 0900.

Robert KD7WNV: Field Day Lost & Found – still have a Mag-lite flashlight that was left in the 20-meter bunker, see him if it's yours.

The next Mike & Key Board meeting will be on the first Wednesday of the month, September 1<sup>st</sup> [later rescheduled to Tuesday, September 7<sup>th</sup>] at 7:00 PM, at the Salvation Army in Renton.

The next Mike & Key General Membership meeting will be on the third Saturday, September 19, 2010 at 10:00 AM.

Meeting adjourned at 1050 hours.

Attendance: 41 members, 34 ARRL and 6 Guest

**Attested: Robert Grinnell KD7WNV, Secretary**

## M&K Board Meeting Minutes

Meeting Held September 7, 2010

**Officers present**

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

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

**Secretary** – Robert Grinnell (KD7WNV)

**Treasurer** – Dave Smith (KB7PSN)

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

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

**Trustees present**

**No. 1** – Tim Kane (K7ANE)

**No. 2** – George Thornton (AE7G)

**No. 3** – Mike Dinkleman (N7WA)

**No. 4** – Alan Hughes (KB7SVU)

**No. 5** – Daniel Stevens (KL7WM)

**Other officers (non-voting)**

**Relay Editor** – Gary Bryan (KG7KU)

**Webmaster** – Jim Etwiler (KD7BAT)

Chairman of the Board George AE7G called the meeting to order at 1906 hours.

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

**Officer Reports**

**Chairman of the Board** – George AE7G: The Board will hold a special meeting before the October General meeting to review and address the Field Day incident.

**President** – Ivy WA7IVY: Nothing to report.

**Vice President** – Steve KD7IQL: No new applicants this month.

**Secretary** – Robert KD7WNV: Mail was picked up by the Treasurer. All items were for him.

**Treasurer** – Dave KB7PSN: Distributed monthly budget status. Robert KD7WNV noted odd variances on Field Day generator gas and tow fees. Suggested there may be a misclassification between them, possibly due to reimbursing both with a single check. [Continued on Page 10]

## September 2010

### **M&K Board Mtg Minutes... [Cont'd from Page 9]**

Dave will look into it. Mike N7WA noted that we appear to be late on making our meeting hall donation. We still have not received a final bill from the State Park Service for actual level of use of the Wagon Wheel at Field Day.

**Activity Manager** – Jim N7MU: We have several programs in the queue for upcoming monthly General meetings. For September, Phil De Caire, WB7AEI, of BEARS, will present a program. This is part of a club exchange among BEARS, Maple Valley ARC and Mike & Key. Phil will also have an article for the *Relay*. In October, Matt Kozma, AE7MK, of Maple Valley, will make a presentation on APRS. Jim is also talking to Grant Hopper, KB7WSD, Vice Director of ARRL Northwestern Division, about a program on RDF/Fox Hunting, and ARRL matters. Acquisition of year-end door prizes is progressing according to previously-presented plans. Some other items have been received from the estate of the father of Frank Krieger's son-in-law. Jim spoke with Gary W7TRJ at the picnic about possibly making video recordings of some of our more interesting programs. Jim related that Dale AC7NP has suggested that we solicit more door prizes from vendors. Steve KD7IQL cautioned about the low chances of success and the reputation that it might give the Club with those companies.

**Radio Officer** – Hal N7NW: Not present. Hal is out of town. The other repeater control operators have been alerted, and Steve KD7IQL is in charge. Hal emailed the following report to Board members: *As far as the repeaters the power outage at E. Tiger went almost unnoticed. We did remind users of the 82 repeater that we were on battery power and to keep contacts short. I think it went pretty well. We were able to recharge the batteries on Wednesday so they lasted till power was restored on Thursday at 5 pm. Thanks to Steve for a job well done in getting the batteries from COSTO (FREE), getting them equalized, getting all the cabling necessary to connect them to the charge and repeater. It was a really good test of the batteries. Looks like we could go for maybe 1½ to 2 days of power outage. We do plan on running some testing later to see what our battery capability is.*

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

**Webmaster** – Jim KD7BAT: The website is up to date. Jim N7MU noted that there are now some items in the classified section, and inquired if that is new. Jim KD7BAT replied that use of the area varies over time.

#### **Standing Committee Reports**

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

**Facilities** – Mike N7WA: Working on wrapping up the inventory.

**Education** – Tim K7ANE: NOAA is conducting storm spotter training at their Sand Point facility tomorrow night (9/8). Any interested party would need to contact them early tomorrow morning, as government clearance is needed to get into the facility.

**Public Service** – George AE7G: Nothing new to report.

**Technical** – Alan KB7SVU: Nothing new to report.

#### **Other Committee Reports**

**Picnic** – Hal N7NW: Not present. In the report that he emailed to the Board, Hal noted: *The Picnic was a grand success. Thanks all who participated and special thanks to Gregg, W7HRC, and his wife for doing the BBQing.*

**Field Day** – Ivy WA7IVY: First opportunity to make reservations for the Wagon Wheel for next year is Sunday,

## ***K7LED Relay***

September 19<sup>th</sup>, at 7:00 AM (the morning after the General meeting). We need a few people to handle this. The person who successfully makes the reservation will need to have a credit card and be able to sustain a charge of a few hundred dollars until reimbursed.

**Elmers** – Jeff W7BRS: Not present.

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

**Logo** – Jim N7MU: No activity.

**Flea Market** – Mike N7WA / Hal N7NW: First organizing meeting will be at 7:00 PM on the 2<sup>nd</sup> Tuesday of October, the 12<sup>th</sup> at the home of Mike N7WA.

#### **Old Business**

Discussion of next steps regarding the Field Day incident. Item is on hold until the parties involved can meet with the Board, in a special meeting prior to the October General meeting. Though not at issue in the matter, the Board affirms that the appointed Wagon Wheel Master has authority to enforce State Park policies.

RC Tacoma Hamfest — Jim N7MU: We accepted the invitation to operate a complimentary club table at the hamfest. Distributed about 60 of our annual booklets.

Trailer storage — Alan KB7SVU: Pursuing the supposed neighborhood covenants, Alan's neighbor sent letters to the Health Dept., environmental agency, and code enforcement. Those entities paid Alan a visit. The outcome is that although he must store a few things in a different manner, he received a "clean bill of health." The trailers can stay as long as we want. Alan would like to have a letter stating how long he has stored the trailers, and that they contain "emergency communications gear," kept accessible in case of need. Ivy WA7IVY will produce that letter as President.

#### **New Business**

New Internal Club Contest—Mike N7WA: We had a contest a couple years ago, but the outcome seemed determined almost as soon as it began. The new contest would have a year-long focus on contacting special event stations. Mike would want some prize money added to the next budget, and has an article ready for the *Relay* if the Board agrees it is a worthy pursuit, which it did.

Steve KD7IQL has two heavy lead-acid batteries (brought down from Tiger Mountain) that he would like to give away.

Steve KD7IQL has the cabinet from Paul N7DOH that was on Squak Mountain. The Kent EmComm group will shortly be putting in a station in Steve's garage, and would use the cabinet. Steve inquired if the Board wants compensation. Ivy WA7IVY moved to donate the cabinet to the EmComm group; seconded by Tim K7ANE. Motion passed.

Jim KD7BAT presented email the Club received from a party southeast of Renton with a tower and antenna they would like to donate. The email included some pictures, which led to concerns being expressed about the condition of the tower. Alan KB7SVU will go take a look at it. If we do agree to handle it, it would not be an official club activity. Alan would take it on, with a call for ground crew volunteers.

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

The Board thanks the Underwoods, Gene W7AKA and Fran N7FWZ, for hosting the rescheduled Board meeting.

There being no further business, George AE7G adjourned the meeting at 2025 hours.

**Attested: Robert Grinnell KD7WNV, Secretary**

## New Arrivals at the Club Library

Tim Kane – K7ANE



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

# 2010 -- Ham Nets & Events -- SEPTEMBER / OCTOBER

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<b>12</b> 1915 -- Kids Net 145.49 (Weekly) 2000 -- King Co. ARES Net 147.08 (Weekly) 2200 -- NW Astronomy Net 145.33 (Weekly) 2030 -- Snohomish Co. ARES Net 146.92 (Weekly)	<b>13</b> 0545 & 1645 --Weather Net 145.33 (M-F) 1730 -- Puget Sound Traffic System Net 146.82 (Daily) 1800 -- WA Emerg. HF Net 3.985 (Weekly) 1830 -- WA ARES Net 3.985 (Weekly)	<b>14</b> 2000 -- Seattle Red Cross Communica-tions Team Net (includes 'Elmers Corner') 146.82 (Weekly)	<b>15</b> 2000 --General/Tech Information Net 145.33 (Weekly) 2000 -- Educational Radio Net -- PSRG 146.96 (Weekly) 2000 -- HARC CW Net 28.055 (Weekly)	<b>16</b> 1900 -- M&K Public Service Net 146.82 (Weekly) 2000 -- Computer & Packet Net 145.33 (Weekly)	<b>17</b> 2000 -- Youth Net 145.33 (Weekly)	<b>18</b> 1000 -- M&K Club Meeting, Renton 1230 -- M&K Ham Radio Exams, Renton 2000 -- HARC CW Net 28.055 (Weekly) <b>Conference:</b> <b>MicroHAMS Digital Conf. -- Bellevue, WA.</b> <b>Contact:</b> <a href="http://www.microhams.com">www.microhams.com</a>
<b>19</b> 2100 -- LDS Net 146.82 (Weekly)	<b>20</b> 1900 -- Seattle ACS Net 146.90 (Weekly) 1930 -- PSRG Net 146.96 (Weekly) 2000 -- YL Net 145.33 (Weekly)	<b>21</b> 2000 -- Snohomish Co. RACES Net 146.92 (Weekly)	<b>22</b> 2100 -- NWSOAR Net 146.82 (Weekly)	<b>23</b>	<b>24</b>	<b>25</b> 0900 -- WA ARES HF Net 3.985 (Weekly) 2000 -- Amateur TV Net 147.08 (Weekly) <b>Public Service:</b> Leavenworth Parade -- (See article, Page 8) <b>Hamfest:</b> Spokane Hamfest -- <b>Contact:</b> <a href="mailto:ac7zgp@hotmail.com">ac7zgp@hotmail.com</a>
<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>01</b> -OCTOBER-	<b>02</b> <b>Public Service:</b> Issaquah Salmon Days Parade -- Tam. <b>Contact:</b> <a href="mailto:radio@seafairparademarshals.org">radio@seafairparademarshals.org</a>
<b>03</b>	<b>04</b>	<b>05</b>	<b>06</b> <b>M&amp;K Board Mtg</b> Salvation Army, Renton, 7pm	<b>07</b>	<b>08</b> Relay Articles Due 23:59:59	<b>09</b>