



From our Club President...

August Means... Family & Club Picnic!

By Ivy Nelson-Groves WA7IVY, President

August. I loved August as a kid and a few years back I shared with all of you our family tradition of a short summer vacation right before school would start. I've held those memories close to my heart and I can't help but think of my family in August. It's the last bit of the summer, and I've always felt that it was a time that should be cherished with the ones you love.

My children and grandchildren live far away from me, so now August means the end of summer, lots of hot weather, and of course, the **Mike and Key Annual Picnic** with my Ham Radio family. It is a great time to get together, have some fun near the water, bring a dish, and share some time with our Ham friends and meet their families. I'm looking forward to seeing everyone at this year's picnic!

Although there are still some big events yet to come, the Public Service season is winding down after a busy summer. There are still some big events coming up later this year: MS 150, Seattle Marathon, Special People's Cruise, just to mention a few (I believe a few other opportunities were mentioned on the reflector just this past week). Soon the days will be getting shorter and the kids will be back in school. **Salmon Run** will be coming up in September. And I'm looking forward to hearing people complain about the cool, rainy weather once again.

It might be a bit early, but in a couple of months, the board will be working on the 2015 budget, so now is the time to think of any suggestions you'd like to make in planning for next year. A few years back, a suggestion was made from the membership to make a donation from the Club for a worthy radio-related group/fund. That was a great suggestion and I'm thrilled that the membership brought this up.

This is the time of year to mull over any ideas you may have about what we can do as a club for the upcoming year. This can be about almost anything the club can do, not just budget items. I'm just trying to give everyone some time to think about things.

Anyway, please enjoy this last bit of summer, stay cool and I'll see ya'll on 16th... *Go Hawks!*

M&K Club's Annual Summer Picnic is Here!

Everyone is invited to meet at 10am at Gene Coulon Park in Renton for the Annual Summer Picnic.

(See Page-3 of this Relay for Directions)

[Note: VE-Testing is held at the normal (Salvation Army) location & time, as posted. Contact: Scott—aq7t@arrl.net].

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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

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
kg7ku @ arrl.net
253-279-3949

Reflector:

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

Club Contacts

| | | | | |
|---|-------------------|--------|--------------------------|--------------|
| President | Ivy Nelson-Groves | WA7IVY | wa7ivy @ live.com | 425-269-3259 |
| Vice President | Rachelle Gill | KF7QCN | chelly2010 @ gmail.com | 425-870-7792 |
| Secretary | James Wraalstad | WQ7H | jmwraalstad @ mac.com | 425-823-0247 |
| Treasurer | Dave Smith | KB7PSN | kb7psn @ yahoo.com | 425-235-5095 |
| Activity Manager | Peter Glaskowsky | K4PNG | png-mk @ ideaphile.com | 425-615-8700 |
| Radio Officer | Hal Goodell | N7NW | n7nw.hal @ comcast.net | 253-549-4178 |
| Trustees -- | | | | |
| No. 1 – Education & Training | Jim Monson | K7JGM | jgmonson @ earthlink.net | 206-245-8485 |
| No. 2 – Membership (CoB) | Monica Cook | KF7QLX | mdcook67 @ gmail.com | 253-245-6435 |
| No. 3 – Technical | Gary Anderson | KF7TBC | gary5440or @ msn.com | 253-631-5376 |
| No. 4 – Public Service | Tim Kane | K7ANE | k7ane @ arrl.net | 206-251-7467 |
| No. 5 – Facilities | Daniel Stevens | KL7WM | kl7wm @ arrl.net | 206-228-9274 |
| VE Testing | Scott Robinson | AG7T | ag7t @ arrl.net | 425-788-0452 |
| Membership Committee— mikeandkeymembers@gmail.com | | | | |
| | Monica Cook | KF7QLX | mdcook67 @ gmail.com | 253-245-6435 |
| Logo Committee | | | | |
| | Jim Aigner | N7MU | jimaigner @ comcast.net | 253-630-2752 |
| | Dan Humphrey | N7QHC | n7qhc @ arrl.net | 206-243-0163 |
| | Dawn Humphrey | KC7YYB | | |
| Club Library | 'Toku' Okumura | AD7JA | ad7ja @ msn.com | 206-772-2450 |
| Webmaster | Jim Etzwiler | KD7BAT | kd7bat @ arrl.net | 425-788-7887 |

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

On the Web – The Club's site at www.mikeandkey.org 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, send Email to the *Relay* Editor: kg7ku @ arrl.net .

M&K Club - August Activities

By Peter Glaskowsky K4PNG , Activity Manager

— *Nothing this month—it's picnic time!*—
Meet directly to Gene Coulon Park at 10am.

Note: VE-Exams remain normal time & location
(12:30pm, Salvation Army building)

In September, Jim Pace K7CEX will be presenting a new video on the history of the ARRL and talking to us about the ARRL Northwestern Division's Wilse Morgan Memorial Scholarship. The Wilse Morgan scholarship for 2013 was recently awarded to Aaron Morrill NA7AM of Spokane, WA.

Please send your ideas for future program topics to me at k4png@arrl.net or just find me at the picnic! I'll be handing out Mike and Key logo stickers for good suggestions.

M&K Club - August Door Prize

By Peter Glaskowsky K4PNG , Activities Manager

At the picnic, we'll have a special door-prize drawing for a donated Azden PCS-2000 mobile radio. Though it's 30 years old, it looks pristine, and Toku AD7JA gives it a clean bill of health.

It comes with the original box, manual, and all factory accessories. One note: it doesn't include a CTCSS tone generator, but such things are widely available on eBay for \$20 or so, and there's plenty of room inside the PCS-2000 to install one.



M&K Radio Officer Report

By Hal Goodell N7NW, Radio Officer

Nothing new to report. Operational deviations nominal.
-Hal, N7NW

MIKE AND KEY ANNUAL SUMMER PICNIC

**Let's beat the heat...
and have a picnic at the beach!!**

When: Saturday August 16th, 2014, 10am
Where: Gene Coulon Memorial Beach Park
South Shelter #2 (Renton)

Directions to Coulon Park: South on Burnett Ave S, Right onto S 2nd ST, Right onto Logan Ave S, Go 1.5 miles, turn left at Lake Washington Blvd N, turn left At Coulon Beach Access Road, then turn left into parking lot. The South Shelter #2 is at the end of the parking lot near the beach.

Can you believe it, it's almost time for the annual summer picnic. We have had a string of really good weather and expecting it to continue for August. My fantastic wife, Annie, and I are again chairing this affair, for the fifth year.

We have the shelter from 8:30 am till 1:30 pm. However, we can continue at the park after 1:30 pm, just not in the shelter. So the plan is to arrive at 8:30 to setup, some assistance in setup would be appreciated. Since this is a club meeting date, the meeting will occur in the shelter at the normal time of 10 am. Arrive early for doughnuts and the normal rag chew, plus get good parking.

We will fire up the BBQ's and begin cooking at around 11:00. Greg and Linda will again assist in the BBQing. Hamburgers and Hot Dogs with all the trimming will be provided along with water and soft drinks. Please bring a side dish.

At 1:00 pm we will start to clear out the Shelter. Bring lawn chairs for setting up outside of the shelter area. We will continue to have snacks and drinks till 3:00 pm or whenever we decide to break up.

There is a Bathhouse and swimming beach and areas for walks and exploring the park. Remember "NO PETS" per park rules. There is plenty of room also for lawn games. If you have a game please bring it.

I'll had a signup sheet at the July meeting. If you didn't make the July meeting and are planning on attending please contact me at n7nw.hal@comcast.net or 253-549-4178. If you can bring a side dish, that would be great but not mandatory. I want to be sure we have enough burgers and dogs for all.

Hal Goodell and Annie Rosello, Picnic Chairs

Hope y'all come!!

Let's Celebrate our August Members

By David Smith, KB7PSN, Treasurer

As of August, 2014, 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.

Happy Anniversary this month!

Each of you makes us who we are.

| | | |
|-------------------|--------|-----------|
| Don Rembaugh | WA7KBK | 40 Years* |
| Michelle Cross | WB7AYU | 39 Years* |
| Rick Antes | KF7VG | 25 Years* |
| Al Hopwood | KB7THX | 21 Years |
| Chuck Jones | N7BV | 18 Years |
| Chris Antes | KC7YES | 17 Years |
| John Walenceus | KC7WOX | 17 Years |
| Steven Cook | KD7IQL | 14 Years |
| Jennifer Pasquier | KF7YGR | 13 Years |
| Richard Pasquier | N7MER | 13 Years |
| Jim Aigner | N7MU | 9 Years |
| Kenneth Roger | AD7II | 9 Years |
| Theresa Edwards | KO7E | 4 Years |
| Michael Evans | KF7WXI | 2 Years |
| Martin Grote | KI7JD | 2 Years |
| Tony Jaeger | KF7WBX | 2 Years |
| Peter Glaskowsky | K4PNG | 1 Year |
| Howard Schultz | W7HS | 1 Year |

* **Life Member**, having been with club for 25 years or more.

MKARC – ‘The Club Reflector’

By Gary Bryan KG7KU

Have you been missing the ‘Call for Relay Articles?’ This has moved to the **MKARC ‘Reflector.’**

Be sure to sign-up for the MKARC-Reflector for (Email) news and announcements. Notices, for instance, of exclusive use of the Club Repeater for use by Emergency Response Teams during drills and actual events.

Mike N7WA is the club’s moderator for this tool, which is based upon the yahoo groups domain. You can go online to your browser and search ‘yahoo groups.’

Here are some of the links for **mkarc**:

Group Email Addresses

- Post Message :mkarc@yahoogroups.com
- Subscribe :mkarc-subscribe@yahoogroups.com
- Unsubscribe :mkarc-unsubscribe@yahoogroups.com
- List Owner :mkarc-owner@yahoogroups.com

Questions & advisement... please direct any questions you may have, to Mike N7WA or myself, Gary KG7KU.

M&K at the Amazon.com Makerfaire

By David Yarbrough WA7DY

On Saturday June 14th Amazon.com held a Makerfaire at its offices in Seattle. The event was open to employees, their friends and family.



There were about 900 visitors throughout the day. A group of hams at Amazon, led by David WA7DY, hosted an Amateur Radio booth. For demonstrations they had a tape measure yagi project, a live setup decoding ADS-B position reports from aircraft and a kit built QRP SDR transceiver. They also had a demonstration about working satellites with a HT and a dual band yagi.



The booth was supported by the Mike & Key which provided, thanks to Toku AD7JA, a banner and ARRL informational handouts, band plans, etc. for people to take with them. The ‘22 things you can do with Amateur Radio’ (<https://www.arrl.org/shop/files/pdfs/Youth%20Flyer.pdf>) flyer was by far the most popular.

The group had a great time and spent 5 hours talking to people non-stop about radio, how to get started and all the cool things you can do within the hobby. Overall the booth was a big success.

Special thanks to the Mike & Key for supporting the event.

73 - David WA7DY

W1AW / 7

By Michael Dinkelman N7WA

Some of you may have been participating in the ARRL Centennial by working the various W1AW/x stations operating out of each state. Each state is scheduled for two weeks to use the W1AW call sign. Washington State had its first week in the Spring, the second week is coming in November (5th - 11th).

At the NW DX Convention, I was approached as to whether I would be interested in getting on the air as W1AW/7 from my station. I asked for the available time blocks and have been considering doing a CW effort. Then..., I thought other Mike & Key members might be interested in participating. As such, I asked the organizer if he would be willing to let me schedule a Mike & Key ARC sub-group rather than having him bombarded with requests. He's agreed.

I will start this with having a spreadsheet with the available time slots at the Club meeting (picnic) for interested persons. Talk to me if you are interested. Then, once I get inputs, I will submit all our choices in one chunk. You would be committing to getting on the air at a specific time, on a specific band, with a specific mode, and providing a log when done. All bands are available from 160M to UHF/VHF including WARC bands.

Of course, many of the prime phone slots are filled for 80M-20M, but many CW slots are open as are nearly all the digital slots. There are plenty of phone slots too, but they may not be available during the prime hours for each band. (Of course, if you like working in the dead of night, there is plenty of opportunity.) I don't see ANYBODY signed up for 6M and up – maybe that's your calling? For the entire week, there are over 3400 hours of operating time between all bands and modes. Only about 500 have been committed to.

Anybody interested?

NW DX Convention

By Michael Dinkelman N7WA



View from the Hotel balcony.

This year's Northwest DX Convention was sponsored by the Orca DX and Contest Club in Vancouver, British Columbia. It was new location this year, at a hotel that actually juts out over the Fraser River. It's in an area known as the Quay in New Westminster. It was a nice location but suffered a bit by being somewhat small for the crowd which was the largest DX Convention in terms of attendance ever.

The programs were a good mix. Besides the usual DXpeditions, there was an interesting talk on Software Defined Radios by a professor at the local University, and another program on the activities of the sun by the head of the observatory in Penticton (home of the traditional 10.7cm solar flux numbers).

As usual, there was a fair amount of socializing going on in the hospitality suite (with almost no room to move at times). I think I got to bed about midnight both Friday and Saturday. There were a couple of receptions out on the hotel sun deck earlier both days, with the very nice weather, for those who had a hard time staying up late.

The program on SDR has given me some thoughts about next year's Field Day efforts on CW Beach. Every year we have a number of people who want to try it feel they can't copy reliably enough. I am thinking of putting a skimmer in the CW tent that will provide a bit of assistance in copying. If I can just figure out how to put it all together.

Next year's convention will be in Everett and sponsored by the Western Washington DX Club. This event is a good chance to meet DXers and Contesters from the Northwest. Because it's in Everett, you don't even need to get a hotel room. Maybe we'll see you there.

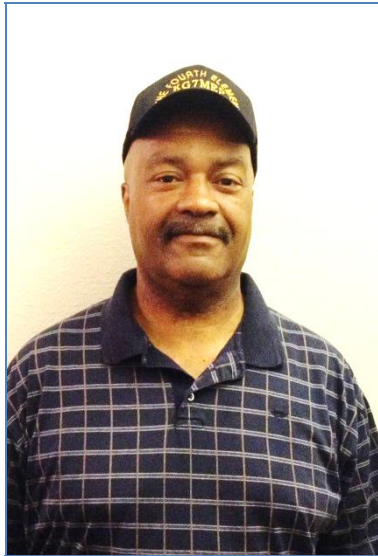


Guy Molinari, N7ZG chatting with a Brazilian Ham.

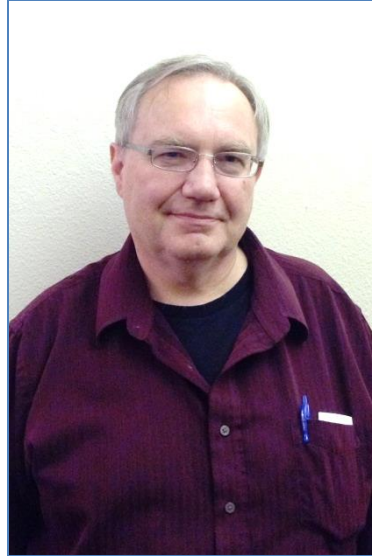
M&K Photos From Our July General Meeting

By Kathy Martin KB7QMO

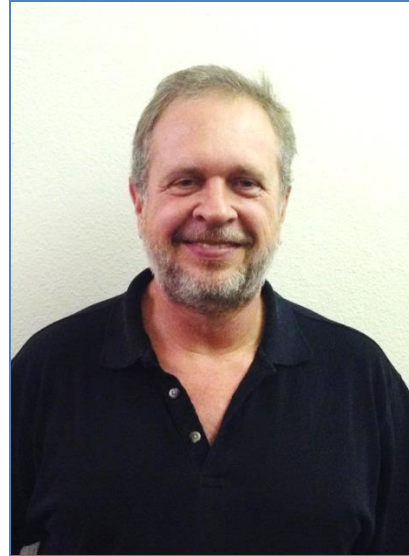
Welcome Our New Members!



Martyn Lee KG7MEP



Thomas Schiffner KG7HXF



Gustavo Merle KG7LVG

Public Service: Giant Bicycle Festival and Ride. /Email FWD by Jim Monson K7JGM & Daniel Stevens KL7WM

On Jul 2, 2014, at 10:02 PM, "Patrick K7KEL" <k7kel@redmond-ares.org> wrote:

From: Redmond ARES

To: Sammamish ARC and Redmond Radio Club

Folks on the To line: we've been contacted by the organizers of the [Giant Bicycle Festival and Ride](#) to provide communications support for their event on August 23. While we may be able to provide a few volunteers, we're not available to do net control and coordination. So we're forwarding this request on to you in hopes that you'll be able to help.

Details

The ride starts at 5:30 AM 8/23 at Magnusson Park in Seattle (map attached). Because it's a ride and not really a race, organizers expect to have people on the route until 5:30PM. The amount of coverage you're able to provide can be negotiated with the organizers.

Contact. If you can help, please contact Pamela Hathaway directly: Email: foxglove379@hotmail.com

Phone: 425-591-3659

Thanks and best regards, Patrick Kelley K7KEL, Redmond ARES

[Reference: <http://giganticbicyclegfestival.org/> ... there are pages for volunteer sign-ups and maps available there].

FaceBook: Learning Morse Code... Posted by: Greg Pietrucha <gregpie1@yahoo.com>

This is from a site someone sent me on FaceBook. If interested in Learning Morse Code check this site out. You May have to cut and paste the URL. 73 Greg Pietrucha W7HRC

Here it is: <http://lcwo.net/>

M&K General Meeting Minutes

By James Wraalstad WQ7H, Secretary
July 19, 2014

The meeting was called to order at 10:00 by the President, Ivy WA7IVY.
Pledge of Allegiance.
Member and Guest Introductions.

Announcements:

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

Officer Reports:

President - Ivy WA7IVY: Report is in the Relay.
Secretary - Jim WQ7H: Dick Lundstrom's call, W7INK, was incorrectly transcribed in the minutes of the June 21st general meeting.
Treasurer - Dave KB7PSN: The books are in order.
Activity Manager - Peter K4PNG: Buy tickets for the raffle. The Field Day After Action report is the program.
Chairman of the Board - Monica KF7QLX: No report.
Radio Officer - Hal N7NW: The repeaters survived a power outage on July 3rd. A trip is being planned to the site to put the battery backup on the 220 repeater.
Vice-President – Rachelle KF7QCN: A quorum was present.
A motion to accept the minutes as published in the relay was made by Sam N7RHE and seconded by Gil W7GIL. The motion passed.
Applications for membership: Thomas Schiffner KG7HXF, Gustavo Merle KG7LVG, and Martyn Lee KG7MEP were voted into the club.
Awards for membership: Dick Vance K7NEX for 25 years & Hap King W7QCV for 30 years.

Editor Reports:

Relay Editor - Gary KG7KU: No Report
Webmaster - Jim KD7BAT: The contacts for the Ramrod public service page have been updated.

Committee Reports:

Membership – Monica KF7QLX: The next meeting is in September.
Facilities and publicity: Jim KD7BAT: No report.

Education and Training - Jim K7JGM: Daniel KL7WM has classes scheduled in September 20th and 27th. Jim is forming an Elmer group. See the article in the July relay.

Public Service - TIM K7ANE: The public service list is in the relay.

Technical and Special Interest - Gary KF7TBC: No Report

VE Exams - Jim KD7BAT: June: 16 Tests were given. 8 Tech, 5 General, and 2 Extra tests were passed. The VE tests will be at the Salvation Army in Renton after the picnic at the Gene Coulon Park in August.

Flea Market - Mike N7WA: No Report.

Field Day - Ivy WA7IVY: Field Day will be the program for today.

Logo Committee - Jim N7MU: is taking orders for shirts, hats, and vests with the club logo. Dan N7QHC is taking orders for badges.

Picnic – Hal N7NW : The picnic will be on the August 16th general meeting. The kitchen site, South Shelter Number 2, is available from 8:30 until 1:30. Set up starts at 8:30. Cooking begins around 11:00. Directions to the park are in the relay.

Old Business: None.

New Business: None.

Alligator Award: Dean N7XS is the holder of the plush pet.

For the good of the order:

From Ivy WA7IVY: Seafair and Ramrod are seeking volunteers.

The next Mike & Key Board meeting will be on the first Tuesday of the month, August 5th at 7:15 pm, at the Salvation Army in Renton.

The next Mike & Key General Membership meeting is on the third Saturday of the month, Aug 16th at 10:00am, at the Gene Coulon Park in Renton.

Jim K7JGM made a motion to close the meeting and was seconded by Gil W7GIL. The motion passed. The meeting was adjourned at 10:33 hours.

- 8 Guests
- 52 Members
- 46 ARRL Members

Attested: James Wraalstad WQ7H, Secretary

M&K Board Meeting Minutes

*By Jim Wraalstad WQ7H, Secretary
Held 5-August-2014*

Officers present:

| | | |
|-----------------------------|--------------------------|---------------|
| <i>X President</i> | <i>Ivy Nelson-Groves</i> | <i>WA7IVY</i> |
| <i>X Vice President</i> | <i>Rachelle Gill</i> | <i>KF7QCN</i> |
| <i>X Secretary</i> | <i>Jim Wraalstad</i> | <i>WQ7H</i> |
| <i>X Treasurer</i> | <i>Dave Smith</i> | <i>KB7PSN</i> |
| <i>X Activities Manager</i> | <i>Peter Glaskowsky</i> | <i>K4PNG</i> |
| <i>X Radio Officer</i> | <i>Hal Goodell</i> | <i>N7NW</i> |

Trustees present:

| | | |
|----------------|-----------------------|---------------|
| <i>No. 1</i> | <i>Jim Monson</i> | <i>K7JGM</i> |
| <i>X No. 2</i> | <i>Monica Cook</i> | <i>KF7QLX</i> |
| <i>X No. 3</i> | <i>Gary Anderson</i> | <i>KF7TBC</i> |
| <i>No. 4</i> | <i>Tim Kane</i> | <i>K7ANE</i> |
| <i>X No. 5</i> | <i>Daniel Stevens</i> | <i>KL7WM</i> |

Other officers (non-voting)

| | | |
|---------------------|--------------------|---------------|
| <i>Relay Editor</i> | <i>Gary Bryan</i> | <i>KG7KU</i> |
| <i>X Webmaster</i> | <i>Jim Etwiler</i> | <i>KD7BAT</i> |

Visitors

Michael Hanson KG7MX

Correction for the July Board Minutes: Ron McLean was listed as being approved for membership which had already occurred in May. Approved at the July Board meeting for membership were Martyn Lee, KG7MEP, and Gustavo Merle, KG7LVZ.

The COB Monica KF7QLX called the meeting to order at 7:15 p.m.

Ivy WA7IVY made a motion to approve the July minutes as amended. Daniel KL7WM seconded. The motion passed.

Reports:

President Ivy WA7IVY: No Report

Vice President Rachelle KF7QCN: Four membership applications, Christopher Rose AE7XQ, Jeremiah Rose KF7ZPI, Erik Parker K4AZN, Siggie Bjarnason W7RTF. All were recommended to the membership.

Secretary James WQ7H: No report.

Treasurer Dave KB7PSN: The books are in order.

Activities manager Peter K4PNG: Please submit suggestions you have for the monthly program.

Radio Officer Hal N7NW: No Report.

Relay editor Gary KG7KU: Via email, Gary wants to encourage membership to sign up the email reflector.

Webmaster Jim KD7BAT: Updated education web page.

Trustee Assignments:

Chairman of the Board Monica KF7QLX: No Report

Standing Committees:

Membership Monica KF7QLX: Reconvenes in September.

Facilities Daniel KL7WM: The Captain has left the Salvation Army. The new Captain is coming. A request for his presences at the September board meeting will be submitted.

Education & Training Daniel KL7WM: Classes are listed on the web site.

Public Service –Tim K7ANE: No Report

Field Day Ivy W7IVY: Our logs have been submitted. There will be two MVPs, one for the bluff and one for CW beach. Attendance was down. A discussion regarding how to increase participation was held.

Picnic Hal N7NW: Next club meeting is the picnic.

Technical –Gary KF7TBC: No report

Old Business

There has still not been an opportunity to meet with the Salvation Army Captain. A discussion regarding the relationship with the Salvation Army was conducted.

New Business:

None

Next Board meeting will be on Tuesday September 2nd, 2014 at 7:15 pm at the Salvation Army Building in Renton.

A motion to adjourned was made by Peter K4PNG and seconded by Ivy WA7IVY. The motion carried.

There being no further business, the COB Monica KF7QLX adjourned the meeting at 8:34 pm.

Attested: James Wraalstad WQ7H, Secretary

M&K Library Expansion

By Jim Aigner N7MU

Some of our new members may not be aware of a great membership benefit - borrowing an MFJ Antenna Analyzer from the club library. Toku, our librarian, has assembled some 20 pieces of test equipment to add to that loaner library. This equipment is available for members use for your special projects, for training or education purposes (the ARRL has some good electronics courses), or simply to get hands-on experience. The stuff ranges from vintage analog meters to power supplies, watt meters, oscilloscopes, even a microscope.

If what you want to borrow is a small item, simply contact Toku to bring it for you to the next meeting. Or stop in to his shop to look over his inventory.

Here's the complete current list:

- 1) MFJ-249 and MFJ-259 Antenna Analyzers
- 2) MFJ-874 1.8 to 525 MHz SWR/Wattmeter
- 3) Tektronix #7503 Oscilloscope (71380-7A26YZ)
- 4) Philips #7503 (71380-7A26X2) Oscilloscope
- 5) Astron #SL-11A 12V Power Supply
- 6) Astron #RS-20A 12V Power Supply (2 sets)
- 7) Astron #VS-50M 12V Power Supply
- 8) EICO #1064S 0-20V Power Supply (2 sets)
- 9) Bird Model #43 10W (25-60MHz)
25W (25-60MHz) (100-250MHz)
100W (100-250MHz) (400-1000MHz)
250W (25-60MHz)
500W (2-30MHz)
1000W (2-30MHz)
- 10) Bird #8135 150W Dummy
- 11) EICO #235 Analog Meter (VTVM)
- 12) Simpson #250 Analog Meter (VTVM)
- 13) Fluke #8010A Digital Multimeter
- 14) Micronta #22-175A True RMS Multimeter
- 15) Brunnel Instrument #3030 Function Generator
- 16) Tenma #72-5005 2.4 GHz Multifunction Counter (2 sets)
- 17) Fluke / Philips #PM5712 Pulse Generator (1Hz-50MHz)
- 18) EMT Series Stereo Microscopes
- 19) VIZ #WP-29A Monitor AC Voltage and Isolation Transformer
- 20) Training Systems #20500B #40600 #50200 #60100



The library is maintained and serviced by M&K Librarian Toku Okumura, AD7JA, at his television service company, Skyway TV, at 11818 Renton Ave. S, Seattle 98178. Tel: 206-772-2450. For more information, opening times and a map, go to his website:

<http://www.skywaytv.net/>. Please come by and browse!

Pacific Northwest Hamfairs & Events

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

Link: [The Pacific Northwest Hamfair and Events Calendar](#)

Also: [Western Washington Amateur Radio Licensing Classes, Training Classes and Examination Sessions](#)

August 16, Annual Clark County Amateur Radio Club (CCARC) Ham Fair, Vancouver, WA. This is an ARRL sanctioned event. Salmon Creek American Legion, 14011 NE 20th Ave, Vancouver, WA 98686. For more info: clarkcountyhamfair@w7aia.org or www.w7aia.org.

August 17, Antique Radio Swap Meet. Puget Sound Antique Radio Association. 9 AM to 1 PM. Shoreline Community College, Shoreline, WA 98155. Free admission. <http://www.eskimo.com/~hhagen/psara/> (Always the 3rd Sunday in August) [Flyer in PDF](#). (23K)

August 23, Highline Amateur Radio Club SwapFest. DesMoines, WA. Always the 4th Saturday in August. <http://www.highlinearc.org/swapfest.html> or email swapfest@highlinearc.org [Flyer in PDF](#). (23K)

August 23, Thurston County Fox Hunt. Lacey, WA. [Flyer in PDF](#). (331K)

September 5-7, 17th Annual Northwest APRS/Digital Summer Gathering. Valley Camp, North Bend, WA <http://valleycamp.org/>. Contact k7fzo.thom@gmail.com

September 13-14, LaGrande Swap Meet. La Grande, OR. W7GRA - Grande Ronde Radio Amateurs Association <http://w7gra.org/>

September 27, Washington State Convention (Spokane Hamfest) Spokane Valley, WA. This is an ARRL sanctioned event. <http://www.kbara.org/> Contact, Betsy, N7WRQ.

September 28, - ComFest Amateur Radio Swap meet. South Delta Rec Center, Tsawwassen, presented by the Delta Amateur Radio Society. Details at: www.deltaamateurradio.com n7wrq@aol.com (509)448-5821 [Flyer in PDF](#). (104K)

October 11, Pacific Northwest VHF Society Conference. Seaside, Oregon. This is an ARRL sanctioned event. <http://www.pnwvhfs.org/>

August 2014

K7LED Relay

Ham Nets & Events – 2014 – August / September

| SUNDAY | MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY |
|--|--|--|-----------|--|--|---|
| 10 1900 – NWWA-LDS Net 147.34 (Weekly) 2000 – King Co. ARES Net 147.08 (Weekly) 2200 – NW Astronomy Net 145.33 (Weekly) | 11 0545 & 1645 – Weather Net 145.33 (M-F) 1830 – WA Emerg. HF Net-ARES 3.985 (Weekly) 1900 – Seattle ACS Net 146.90 (Weekly) 1930 – PSRG Net 146.96(Weekly) | 12 2000– American Red Cross /SeattleTeam Net 441.550 (+103.5) (Weekly) 2000 – Snohomish Co. ACS/RACES Net 146.92 (Weekly) | 13 | 14 1900 – M&K Public Service Net 146.82 (Weekly) | 15 | 16 1000–M&K Club Mtg @ Annual PICNIC – Gene Coulon Park, Renton 12:30-M&K Ham Radio Exams, Salvation Army Location. Contact: Scott— ag7t@arrl.net Public Service: Woodinville Community Parade. Celebrate Military Service, Tacoma. hamsignup@seafairparademarshals.org . |
| 17 Public Service: Athleta Iron Girl Triathlon, Genessee. [Late Notice: Support for this event this year is CXL the event itself remains valid]. | 18 | 19 | 20 | 21 | 22 | 23 Public Service: 10K Run & Walk, Seattle Center. Contact: Fran - N7FWZ Giant Bicycle Ride , Snoqualmie. Contact Pamela Hathaway: foxglove379@hotmail.com 0900 – WA State Emerg. Net (WSEN) ARES HF Net 3.985 (Weekly) |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | 01 – SEPTEMBER – Labor Day Have Fun! Be Safe! | 02 M&K Board Mtg Salvation Army Bldg Renton, 7:15 pm | 03 | 04 | 05 | 06 Public Service: Mukilteo Lighthouse Festival & Parade. Contact: Gene - N7QLT hamsignup@seafairparademarshals.org . Public Service: [Aug 6-7] Bike MS: Washington Ride. Contact: Dan KC7UVK dan@esca1.com . |
| 07 Public Service: [Aug 6-7] Bike MS: Washington Ride. (Bainbridge, Island & Whatcom) Contact: Dan KC7UVK dan@esca1.com . | 08 | 09 | 10 | 11 | 12 Relay Articles Due | 13 |
| 14 Public Service: Summer Challenge Bike Ride- Bainbridge. Contact: Craig AC7BV craigh@blarg.net | 15 | 16 | 17 | 18 | 19 | 20 1000–M&K Club Mtg [Salvation Army- Renton] 1100— Presentation 12:30- M&K Ham Radio Exams Contact: Scott— ag7t@arrl.net |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 Public Service: Autumn Leaf Festival Parade – Leavenworth. Contact: Gene - N7QLT hamsignup@seafairparademarshals.org . |