



View from the Bridge...

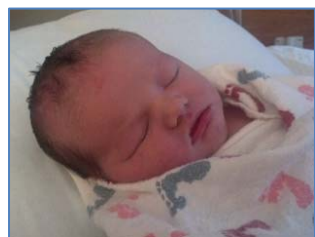


August is for Family

By Ivy Nelson-Groves WA7IVY, President

As a kid, I loved August. Right before school would start, my Mom would take all of us kids out on a 3-4 day mini vacation. We'd plan our trip within a 12-hour drive of home, which meant we'd take a trip to someplace in Florida or Georgia. We went to fun places; places not particularly of interest to Dad, but often off the beaten track. Some of my fondest memories are of these trips with my Mom, brother and sister, and it was a wonderful wrap-up for the summer.

And even though I live far from my family now, August is a month is still a month for family -- my Ham family. I look forward to the August Picnic so I can see my Ham friends, their spouses and kids, and enjoy their company. A way to celebrate the summer, and our friendships within the ham community. This year it will be at Gene Coulon Park, so bring your sunscreen and bathing suits.



And one last thing, speaking of family... My youngest daughter had a new baby boy on the 5th, Matthew John Garrett. 9 lb, 14 oz, 21" tall. Mother and baby are doing very well. No report of when he's testing for Technician yet.

A few other items to mention.

The day after our Picnic, weather cooperating, we will be having a work party to get the tower trailer back in shape and ready for next Field Day. Contact me or Alan KB7SVU for address and directions. We are hoping to start around 10am. Bring work gloves and if you have any sanding equipment, bring that too. I'll be bringing the paint and brushes.

Our final points were submitted to the ARRL for Field Day 2011. The breakdown: total QSOs were 1586 for CW, 70 for Digital and 3039 for Phone. This brought our claimed score to 12,702 points and our total Bonus Points were 1,780. This puts our total at

[Continued from previous column]

14,482 for 2011, a big improvement over our 2010 total of 9,632. Thanks to all of you for a great year. In December we will find out how we stacked up nationwide, but I'm pretty darned happy with our performance for this non-contest contest.

See you at the Picnic on the 20th!

Announcing...

M & K ANNUAL SUMMER PICNIC

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

When: Saturday August 20st, 2011

Where: Gene Coulon Memorial Beach Park - South Shelter #2

The M&K Club General Meeting will be held there (instead of at the SalvationArmy) See Picnic 'Flyer' on Page 11.

Note: Ham Radio Exams will be held at the usual Location & Time.

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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:

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Reflector:

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

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VE Testing	Scott Robinson	AG7T	ag7t @ arrl.net	425-788-0452

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, Email the *Relay* Editor: kg7ku @ arrl.net.

August 2011

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M&K Activities & Door Prizes

By Kathy Martin KB7QMO, Activity Manager

The August General Meeting will be held at **Gene Coulon Memorial Beach Park** with a picnic to follow. This is a potluck event, so bring a dish. You can contact Hal & Annie for more details. The address is: *1201 Lake Washington Boulevard North* on **August 20th**. Come as early as 8:30 am and stay to visit after the meeting. The meeting will start promptly at 10:00 am but we have the shelter starting @ 8:30 am until 1:00 pm.

Here is Online link to the park:

<http://www.ci.renton.wa.us/living/default.aspx?id=74>.

There will be no door prize drawings during our August picnic meeting. Programs planned for the Fall include "Morse Code in Amateur Radio," maybe a vintage radio session, and still other possibilities being worked on. The year-end prizes include the Signalink USB device and the recently acquired Wouxun Dual Band (2m/440) hand held radio (KG-UV3D-2/UHF \$119.99).

Year-End Door Prize #1

By Jim Aigner N7MU

In the past year we have seen some new choices in Dual Band Amateur handheld radios for VHF/UHF. They are not from your typical sources – ICOM, Yaesu, Kenwood, and Alinco. And they are not being sold at a typical price!

So how good are they? Reliable? Are the manuals readable? Can they be programmed by computer? See for yourself.

This Year-End door prize #1 is Wouxun's KG-UV3D-2/UHF, a Dual Band VHF/UHF handheld that gives you 5 watts on 2 meters and 4 watts on 70 cm. See the review of the earlier version of this model in November 2010 QST, page 52. The few people I know who have them, love them.



Online Reference: <http://www.powerwerx.com/wouxun-radios/kg-uv3d-dual-band.html#desc>.

It comes with all the basic accessories needed to work your first Public Service event. Additional accessories including a programming cable and an antenna with a male SMA connector are available at reasonable prices.

Improve your odds of winning one of these... buy a ticket or two this year!

Year-End Door Prize #2

By Jim Aigner N7MU

Year-End door prizes are purchased with surplus funds from the monthly ticket sales throughout the year. If you bought any door prize tickets from December 2010 until November 2011, all those tickets will be entered into the yearend drawing.

You don't need to be present to win, but you are limited to winning only one prize during the Year-End drawing.

Here is door prize #2, the popular Tigertronics Signalink USB – (<http://www.tigertronics.com/slusbmain.htm>).

It's a TNC for HF or VHF that puts digital modes conveniently at your fingertips. With it, you can decode/encode modes such as CW, RTTY, PSK-31, MT-63, SSTV, AMTOR, EchoLink, and run applications like Fldigi and EasyPal for your EMCOMM team.



- **FCC Class B Certified**
- **Built-in Low-noise Sound Card**
- **Simple Installation and Setup**
- **Complete Radio Isolation**
- **USB Port Powered**
- **Works with virtually ALL Radios**
- **Uses Mic, Data, or Accessory Port**
- **Supports virtually All Sound Card Digital & Voice Modes**

It comes with configuration jumper wires and a generic radio cable that can be terminated with a connector that mates with your radio.

It's a well-designed, well-built little unit that really simplifies adding digital modes to your radio.

Be sure to let others know what you are 'up to' in Ham Radio – Send in your article next month!

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Amateur Radio and IMSA

By Dave Mitchell WA7DTM

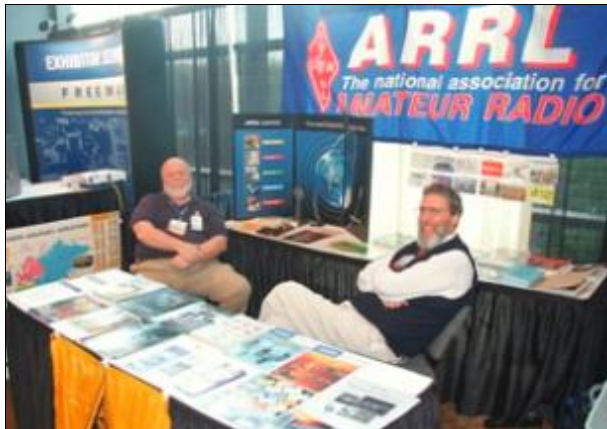


Photo: Tim Kane K7ANE (L) and Dave Mitchell WA7DTM (R) sit at the IMSA Booth.

For the first time, Amateur Radio had a formal presence at an annual conference of the *International Traffic Signal Association (IMSA)*.

The purpose of this effort was:

- *To introduce Amateur Radio to the folks who maintain traffic signal equipment.*
- *To show its importance as a key communications component in Public Emergency situations, such as storms, floods, etc.*
- *To show that IMSA is an essential communications component of Search and Rescue operations, Public Service events, such as parades and various races.*
- *To show how it can also be a fun and engaging hobby for ones self and family with the opportunity to make friends in your local community and across the world.*

This year the City of Bellevue was selected to host the 84th Annual Conference of the *IMSA*. This is a yearly conference at which traffic signal maintenance folks from the Northwest (this year), Canada and the rest of the US attend for training, certification, seeing what is new in equipment, and networking with your compatriots.

There were over 40 technical training presentations. Over one-hundred vendors were present; representing traffic signal equipment and signals, roadway detection, networking, roadway lighting, signs and other support products.

IMSA intends to continue the effort to engage with the Amateur Radio community at the national and regional level. It can be source for new Hams as well enlighten them about the benefits to their engaging in Amateur Radio activities. Next year, in 2012, the conference will be in Orlando. Contacts

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have already been made with the Florida *IMSA* hosts to continue the outreach effort.

A courtesy Amateur Radio booth was provided by *IMSA* and with the very generous and capable contributions of time and talent of our NW Amateur Radio community the booth was manned all the time exhibits were open. The booth was well stocked with materials and handouts.

By all accounts, attendance at the booth was pretty good. A number of *IMSA* members that are already Hams came by to identify them selves and say hello. Others who had lapsed licenses or were interested in becoming Hams came by, picked up materials and got encouraging information on testing and how to go about getting their first license.

Mike and Key's Tim Kane (K7ANE) created a terrific technical training that covered the history of Amateur Radio, the scope of modern Ham radio, as well as how to get licensed and on the air. Tim also prepared a nice MS-PowerPoint presentation that he used in the presentation then later ran at the ARRL booth.

Jim Pace (K7CEX), the ARRL Western Washington Section Manager, provided much of the booth handout materials, as well as decorations and drapes. ARRL provided a large supply of handouts. Jim was present much of the time the booth was open. Tim was also there much of the time. *Dick Vance (K7NEX)* of *Mike and Key* helped out at the booth. *John Rader (AA7ZV)*, who is an *IMSA* member and the City of Tacoma's EMCOM coordinator as well as mgr of the state EOC's Amateur Radio section helped out at the booth.

The outreach to this new community of potential Hams was made possible because of the contributions of local hams. 'My Thanks' go out to them for their efforts.

Email Announcement Received...

**Contributed by Jim Etwiler KD7BAT
M&K Webmaster**

From: AE5NO Ron

Subject: *Special Event Station Notice*

Special Event Station K5B – Plano Balloon Festival

September 16, 2011 – September 18, 2011 – Celebrating the 31st annual Plano Balloon Festival, members of the Plano Amateur Radio Klub (PARK) and area amateur radio operators will be QRV as K5B during the festival. Frequencies plus or minus QRM: 7.255, 14.255, 21.355 and on the club repeater, WD5ERD on 147.180 + PL 107.2 and via Echolink at K5PRK. QSL with SASE to K5PRK .

More information formation will be available on our website at www.k5prk.net/k5b.

73, Ron, AE5NO Phone 281-961-4570

ae5no.ron@gmail.com, www.grz.com/db/ae5no

Celebrate our August Members!

By Dave Smith KB7PSN, Treasurer

As of August 2011, 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:*

Don Rembaugh	WA7K BK	37 Years
Michelle Cross	WB7AYU	36 Years
Rick Antes	KF7VG	22 Years
Al Hopwood	KB7THX	18 Years
Chris Antes	KC7YES	14 Years
John Walenceus	KC7WOX	14 Years
Ilona Kellison-Bullard	KD7MVA	13 Years
Barry Wolborsky	KC7YB	12 Years
Kimberly Wolborsky	KD7FYD	12 Years
Steven Cook	KD7IQL	11 Years
Jennifer Pasquier		10 Years
Richard Pasquier	N7MER	10 Years
Jim Aigner	N7MU	6 Years
Paul Gilmore	N7DIP	6 Years
Kenneth Roger	AD7II	6 Years
Choice Dalton	KD7JQB	3 Years
Theresa Edwards	KO7E	1 Year
Daniel Harrison	KF7JXZ	1 Year
Sue Harrison	KF7JXY	1 Year

**WANDERING:
In Pursuit of WAS 'n Such**

by Fred Roberts - W6TKV

I suspect that Worked All States (WAS) is probably one of the first awards targeted by a great many Hams. As I recall, my interest in WAS popped up one day after I had been a Ham for 3 or 4 years. There were only 48 States in those days, and "No" it wasn't easier to work 48 States then than it is to work 50 States these days. I was positive I had them all within my list of few hundred QSLs, but was wrong ... I had just 30 QSLs.

For reference, at that time I had already committed myself to 1) logging every QSO (including 2M mobile QSOs), 2) sending a QSL to every first time contact, and 3) keeping an individual card to record a first contact and all subsequent contacts with the same station, entering all QSO dates, frequencies, on/off times for each station as worked. And, I kept this rule for many years, and it turned out to be the most interesting record particularly when someone would send me a note several years later. Why? Well, since I could respond with comments like "Boy, it's been a long time since our last QSO. As I recall, you were

traveling across Idaho in your new Ford on the way to your daughter's college." I never bothered to explain how I "remembered" so many odd facts which were recorded in my card files. But, what a hoot!

But, let's get back to WAS. Yes, I got my first WAS certificate which was quickly framed and hung on the wall. Over time, I pursued WAS on different bands until I finally had wrapped up WAS on 8-bands from 40M through 10M.

A very interesting aspect of WAS popped up with the advent of computer logging. Most contesting programs display the States and tag the ones you have worked --- thus marking the time when you have another WAS in the books. And, all you have to do to is subtract the start time from the finish time, and since both are logged showing the time, it's a piece of cake.

When I was active with the County Hunters and operating as K2AMN/6, I reached 20M WAS in less than 48 hours --- start May 21, 1977 at 0026GMT and ended May 23, 1977 at 0003GMT with all 50 states logged. Of course, I can claim this since all of contacts were with County Hunters, and all of the QSL cards were processed through the same County Hunter's QSL Manager --- not too many people can say that!

My very best time for WAS was 6 hours and 40 minutes. That of course was just the luck of the draw during a contest. Ultimately, I did chase down WAS on each of 8 bands. But to all of the Technicians who have achieve 10M WAS, I say, "Congratulations ... Well done!"

A more demanding take-off on chasing all of something via Ham radio turned out for me to be County Hunting. The County Hunters use a frequency at the high end of 20M, where one person operates as Net Control and runs the net alone or with the help of an assistant in another part of the country. Mobiles check in with Net Control and await their turn to run their "county". Of course, aside from just waiting, they are contacting the counties being run by other mobile Hams who were also "running" at that particular time.

So those who are working counties are both Hams at home as well as the mobile stations as they drive through counties. Being active in county hunting leads you to become very good friends with a lot of other county hunters. Of interest, several DX stations from Western Europe, South America, and of course, Canada who have been active county Hunters --- being across the pond really takes resolve.

The County Hunters hold annual meetings spread all around the country --- those I have attended, some with my XYL, were 1978 in Saint Louis, MO; 1979 in Atlanta, GA; 1980 in Denver, CO; 1982 in San Diego, CA; 1984 in Abilene, TX; 1991 in St. Paul, MN; and 2002 & 2008 in Visalia, CA.

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Wandering: WAS 'n Such...[Cont'd from Pg 5]

These were all great times to attach the faces to the voices. Group pictures were always on the agenda.

Here is a sampling of **'more than interesting happenings'** over my many years as a County Hunter.

1) There was a time when a county hunter just happened to be flying on a U.S. Military Bomber, and of course, he started running counties. There was a very short time to work him in each county as the plane ran across each county at very high speed. What a great time though.

2) When I was operating from Geneva, Switzerland, I called a county hunter who was running a particular county. I knew the operator, but when he heard the 4U1ITU call sign, he did stumble over it.

3) There was one Ham who managed to work his son from all counties - can you imagine applying for "Worked All Counties" with a log having just 1 call sign worked. They even went to Hawaii together with a couple of hand-held 2M rigs so Dad could work his Son in all of their counties.

4) When I was at the St. Louis County Hunters convention, one of Hams who was a policeman told us of the night he saw a fellow busily working to jump the cars wiring. When he eased up next to this fellow and without a word, put his gun on the man's neck - the fellow said, "I sure does hope you is the police." Luck day for him, it was indeed the police!

5) When traveling alone on a trip from Cottage Grove, Oregon to Riverside, California, it was had an absolutely great time with the County Hunters Net keeping me company for 8 hours or so.

6) One hear, I drove my son (and his motorcycle) to a college in Arcata, CA, the next day he got was settled and so I headed back to southern California - with the County Hunters as company on the homeward bound trip.

Along the way, one of the fellows called into net control, and said he was in Tennessee with a flat tire, not close to any small town, and no traffic at all. He wanted someone to call his wife, tell her where he was, and have her drive down to get him. One of the fellows operating from home in Arizona said he would make the call. And so he did. Where else on earth could you be stuck on a deserted road in Tennessee and have a stranger in Arizona call home for you? Ain't Ham radio just absolutely grand?

Finally, let me tell you that I have worked all of the counties in the U.S., finishing up on the 4th of July in 1988. County QSL cards usually carry more than a single county - how many? Up to 5 counties per card.

By the way, if you want to give this one a try, you should keep in mind there are only 3,141 counties in the United States so really would need to get a very comfortable chair --- you might also want to be sure your car seat is really comfortable --- you will be in the car for long times too.

ARRL [www.arrl.org] Excerpt – The K7RA Solar Update

TAGS: [12 meters](#), [average daily sunspot](#), [current sunspot cycle](#), [daily solar flux](#), [meter e-skip](#), [meters ssb](#), [monthly propagation charts](#), [new england](#), [new groups](#), [new sunspot group](#), [recent sunspot activity](#), [solar flare](#), [solar flux](#), [solar hemisphere](#), [solar observer tad](#), [Solar Update](#), [sunspot](#), [sunspot group](#), [sunspot numbers](#)

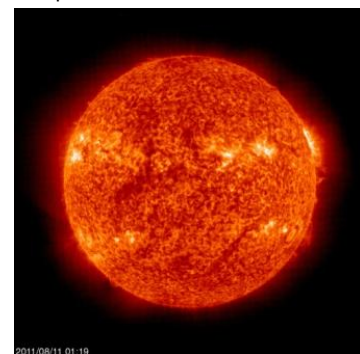
08/12/2011

The average daily sunspot numbers declined more than 24 points to 75.1 this week, while the average daily solar flux was down more than 12 points to 104.3. We saw solar flares recently, with a substantial geomagnetic upset on Friday and Saturday -- August 5-6 -- when the planetary A index was 49 and 31. The [largest solar flare of the current sunspot cycle](#), an X7 flare, occurred at 0805 UTC on August 9, emerging from sunspot group 1263. This does not appear to be Earth-directed.

Sunspot numbers for August 4-10 were 81, 94, 85, 89, 80, 54 and 43, with a mean of 75.1. The 10.7 cm flux was 116.3, 109.4, 110, 105.4, 101.5, 97.5 and 90.3, with a mean of 104.3. The estimated planetary A indices were 4, 49, 31, 7, 10, 9 and 7, with a mean of 16.7. The estimated mid-latitude A indices were 3, 32, 14, 6, 8, 5 and 8, with a mean of 10.9.

The latest forecast from NOAA has solar flux at 85 through August 17, then 90, 98, 98 and 100 on August 18-21, and then 105 on August 22-30. The planetary A index is expected to be 7 on August 11, 5 on August 12-15, then 15, 18, 10, 8, 5, 12 and 8 on August 16-22, 5 on August 23-25, and 15, 10, 8, 5 and 5 on August 26-30.

Reviewing recent sunspot activity, there were four sunspot groups visible on August 4: 1260, 1261, 1263 and 1266. The total area covered by sunspots was 1380 millionths of a solar hemisphere, the largest coverage since March 8, 2011. On August 5, new sunspot group 1267 appeared, and on August 6, groups 1260 and 1266 disappeared and new group 1268 arrived. On August 7, 1268 disappeared and 1266 reappeared, and on August 8, 1261 was gone and 1268 emerged again, only to vanish on August 9. On August 10, sunspot group 1267 was gone, and 1268 came back. On August 11, sunspot group 1263 was gone, and new groups 1269 and 1270 appeared.



Kent Doucey, N0IRM, of Galena, Missouri, was on 20 meters SSB on August 3 and worked Victor, E51CG on Rarotonga at 0239. The signals were strong, so they switched to 10 meters and connected again, this time with weaker but quite readable signals, at a distance of about 5900 miles.

Jeff Hartley, N8II, of Shepherdstown, West Virginia, wrote on August 6: "We had some nice sporadic-E on the evening of Wednesday, August 3, with 6 meters open to W9/0. I very briefly worked WA2BEV in Butler, Pennsylvania on 10 meters, only about 190 miles away via E-skip and logged a couple of Michigan stations there, possibly the result of the flares. Conditions were decent, with very good propagation to Australia and long path into South Africa on 20 meters around 1200. I then went up to 15 meters to find ST0R on CW. They were about S4 here and not workable thru the EU/JA pile up -- in 15 minutes, they did not work any North American stations). Returning after 1500, I luckily found their QSX frequency and was the next QSO, with the ST0R signal up to about S6. I then tried 12 meters and worked PA1CC and CS2W

on CW. A listen on 10 meters yielded hearing an I0 beacon and hearing IW0 working someone not audible, but CQs yielded no QSOs. Signals on 15 meters in the 1500 hour were good up to Lithuania and Sweden, but I heard nothing from Russia.

Earth is currently moving through debris from the comet Swift-Tuttle, giving us the Perseid meteor shower, which should peak August 12-13.

All times listed are UTC, unless otherwise noted.

[Complete Article is found at: <http://www.arrl.org/news/the-k7ra-solar-update-177>]

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

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

M&K-K7LED In-House Contest for September

By Michael Dinkelman N7WA

K7LED In-House Contest Rules:

- Only special event stations listed in the Relay will be worth points.
- Each QSO with a special event station is worth one, at least, point.
- Some of the special event stations each month will be worth bonus points.
- You can work a special event station with Voice, CW, and/or RTTY.
- QSO's with multiple modes is allowed and additional points can be earned for each mode.
- QSO's on multiple bands (same mode) will not count for additional points.
- A multiplier effect will generated by working states. (Points earned by working special event stations multiplied by the total number of states worked in the contest will equal the total points.) A maximum of 50 multipliers (each unique State worked) is possible.
- Participants are encouraged to report their progress to me (N7WA) each month so I can include them in the Relay.

In the continuing saga of the Mike & Key year long in-house contest, here are your special event stations for September.

<u>September</u>	<u>Station</u>	<u>Time</u>	<u>Pts</u>	<u>Mult</u>
02-03	WA7HOT	2300-1900Z	10	Texas
<i>World Championship BBQ Goat Cook Off – 14.213, 7.213, 3.813</i>				
05	K1R	1320-1320Z	10	MA
<i>Labor Day 14.265, 7.240, 3.910, 18.125</i>				
10	K4MIA	0000-2359Z	25	OK
<i>National POW/MIA Recognition Day 14.265, 7.265 14.070(psk)</i>				
10-11	N1Y	0200-0400	25	NY
<i>Always Remember - 10th Anniversary of the 9/11 attacks*, 14.070, 7.240, 3.911</i> <i>(*reading one name of the fallen with each QSO)</i>				
11-12	K4AF	1100-0100Z	25	VA
<i>Pentagon 10th Anniversary of the 9/11 attacks, 21.290, 14.240, 7.190, 3.815</i>				
17	W2D, W2GLO, W2A, W2B, W2C	10 for each station	10	NY
<i>The Hudson Lights (6 light houses on the Hudson River) 21.300, 18.155, 14.250, 7.250</i>				
24-25	KA5B	1400-2000Z	10	NM
<i>The Train runs through Clovis!!! 14.285, 7.180</i>				

August 2011 M&K General Meeting Minutes

By Robert Grinnell KD7WNV, Secretary

Meeting held July 16, 2011

Meeting was called to order at 1003 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.

President Ivy WA7IVY allowed a few minutes for Daniel Stevens, KL7WM, who is running for WWA Section Manager, to present his candidacy to the Club.

Officer Reports:

President – Ivy WA7IVY: Report was in the Relay.

Secretary – Robert KD7WNV: Mail was picked up by the Treasurer; it was all for him.

Treasurer – Dave KB7PSN: Has reports and books you can review if interested. See him if you have dues to pay.

Activities Manager – Kathy KB7QMO: The program today is on local public service events, by Robert KD7WNV. He gave a brief preview of the program. August is the picnic at Gene Coulon Park in Renton (shelter is reserved from 8:30 AM) and includes the meeting at 10:00; lunch follows. We do not have door prizes at the picnic.

Chairman of the Board – Tim K7ANE: The International Municipal Signals Association held their national conference in Bellevue last week. At the request of Dave WA7DTM, Tim gave a presentation on amateur radio. About 40 people attended the presentation, and they also had a booth staffed for four days, including a visit by WWA Section Manager Jim Pace K7CEX.

Vice President – Kathy KB7QMO for Steve KD7IQL: Membership applications: Earl Palmer, N7EP; Monica Cook, KF7QLX; Scott Castonguay, KC7UOC. All approved by the membership.

Radio Officer – Hal N7NW: Did not get up to repeater site yet, though Steve KD7IQL did go, to check on the batteries but have not heard back (Steve not present).

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; seconded by Scott AG7T. Motion passed.

Relay Editor – Gary KG7KU: Not present.

Webmaster – Jim KD7BAT: Described some emails we have recently received via the website. One sought the date of next Flea Market (March 10, 2012). Another offered some equipment to the club (referred to the Board for action), and another sought permission to use our list of club contacts.

Standing Committee Reports:

Strategic Planning – Mike N7WA: Still seeking pictures, especially now from Field Day.

Facilities – Daniel KL7WM: Not present (already departed from meeting).

Education – Tim K7ANE: Summer is the slow time for classes. The only upcoming class of which he is aware is a 3-day Tech class by Snohomish Hams, September 16-18.

Public Service – Robert KD7WNV: We are really in the heart of the public service season—many events this weekend and the two following. These include several Seafair community parades; the See Jane Run Half Marathon and 5K Run tomorrow; RAMROD and the

K7LED Relay

Torchlight Parade in a couple of weeks. The Torchlight is Saturday, July 30. Seafair is looking for people, especially for the Torchlight, so please get involved if you can.

Technical – Alan KB7SVU: Nothing to report.

Other Committees (as appropriate)

By Laws Review – Dave KB7PSN: Nothing to report.

VE Exams – Scott AG7T: Noted that despite the picnic in August, we will still have exams at the Salvation Army HQ as usual. We had 8 people take exams last month. Awarded 2 Technician and 4 General (no Extras were awarded).

Field Day – Ivy WA7IVY: Got sick so does not have final tally. She and Richard N7MER will return next year as co-chairs. John WA7HQQ reported that although he wishes it really had happened, the Georgia 6-meter contact described in the article on QRZ.com actually did not occur. Dawn KC7YYB noted that there was no signup sheet for hospitality. Ivy will correct that next year. Michelle WA7PVE volunteered to chair Food next year. Dick WA7NIW reported good participation at the Wagon Wheel. We had a total of 174 person-nights. Lost & Found: we have a folding chair and a dust pan left behind. They are outside, please pick them up if yours. Dan N7QHC offered a correction to Ivy's article—the large RV belonging to Fred Lloyd, AA7BQ, is actually a motor home, not a travel trailer. George AE7G reviewed the successes and challenges of the GOTA operation.

Logo – Jim N7MU: Nothing

Contest – Mike: Nothing to report. A couple of people who are participating spoke very favorably about their experiences.

Picnic – Hal N7NW: The picnic is August 20 (the next regular general membership meeting day), at Gene Coulon Park in Renton. There will be maps provided, and on door here at the Salvation Army. We have the shelter from 8:30 AM to 1:30 PM. Meeting is at 10:00. Come early for best parking and/or to help with setup. Donuts and ragchew before the meeting, as usual. Club provides hamburgers, hot dogs and soda/water; bring a side dish of your choosing. Park rules: no pets. Please sign up on sheets provided.

Old Business: None

New Business:

The Radio Club of Tacoma has again this year extended us an invitation to their hamfest (August 13th), offering a complimentary 3'x8' table, along with two free admissions. Scott KC7UOC and Michelle WA7PVE volunteered.

Highline ARC is holding their swap meet in Kent, Saturday, August 27 from 9:00 AM to 1:00 PM. See the blue brochures for details.

Alligator Award – Dale AC7NP not present; still holds the award.

Good of the Order:

Alan KB7SVU related that he and Richard N7MER have discussed the need to do some work on the tower trailer – sanding and repainting. We might consider LINE-X. Will be presented to the Board. The work party may be the day after the Picnic.

Curt KF7LZG mentioned a meeting of Renton Emergency Communications Service, at which Ivy WA7IVY spoke, describing the Mike & Key Club, its purpose and activities, and how it relates to other ham community organizations. *[Continued on Page 9]*

August 2011

M&K General Mtg Mins... [Cont'd from Page 8]

George AE7G described an emergency-preparedness event held at Northgate, called "What If". George helped man a booth on behalf of Seattle ACS. Michelle PVE mentioned KOMO 4 had a report on *What If*, very complimentary to ham radio.

K7LWA mentioned a program on geocaching, and suggested putting out caches as part of our events.

The next Mike & Key Board meeting will be on the first Tuesday of the month, August 2 at 7:00 pm, at the Salvation Army in Renton.

The next Mike & Key General Membership meeting is the picnic at Gene Coulon Park on the third Saturday, August 20, 2011.

John WA7HQG made a motion to close the meeting, seconded by Dick K7NEX. The motion was passed. Meeting adjourned at 1103 hours.

6 guests; 59 members, 49 ARRL members

Attested: Robert Grinnell KD7WNV, Secretary

M&K Board Meeting Minutes

By Robert Grinnell, Secretary

Meeting held August 2, 2011

Officers present

X President – Ivy Nelson-Groves (WA7IVY)

X Vice President – Steve Cook (KD7IQL)

X Secretary – Robert Grinnell (KD7WNV)

X Treasurer – Dave Smith (KB7PSN)

X Activities Manager – Kathy Martin (KB7QMO)

X Radio Officer – Hal Goodell (N7NW)

Trustees present

X No. 1 – Mike Dinkelman (N7WA)

X No. 2 – George Thornton (AE7G)

X No. 3 – Tim Kane (K7ANE) (CoB)

X No. 4 – Alan Hughes (KB7SVU)

X No. 5 – Daniel Stevens (KL7WM)

Other officers (non-voting)

X Relay Editor – Gary Bryan (KG7KU)

X Webmaster – Jim Etzwiler (KD7BAT)

Visitors - None

Chairman of the Board Tim K7ANE called the meeting to order at 1903 hours.

Minutes: A motion to approve the minutes of the previous board meeting was made by Dave KB7PSN, seconded by Alan KB7SVU. Motion passed.

Officer Reports

Chairman of the Board – Tim K7ANE: Received a call from Lyn Burlingame. We need to update our info with ARRL. Ivy WA7IVY proceeded to do so during the meeting.

President – Ivy WA7IVY: Nothing to report.

Vice President – Steve KD7IQL: No new member applicants.

Secretary – Robert KD7WNV: Treasurer picked up the mail, it was all bank statements.

Treasurer – Dave KB7PSN: Submitted current budget status report via email. We have made our meeting hall

K7LED Relay

donation for the second quarter. Most Field Day expenses seem to be in.

Activities Manager – Kathy KB7QMO: Will not be present at the August meeting/picnic. There will be no door prizes. Tim's suggestion about the custom belt buckle did not pan out—too expensive and a large quantity required. Jim N7MU has had no luck in pursuing a presenter on antique radio. We might have a program on Morse code. We sold 133 door prize tickets in July. Jim has already acquired some of the door prizes for the year-end drawing.

Radio Officer – Hal N7NW: The 2-meter repeater was used by ESCA RACES as secondary frequency for support of the *CF Ride For Life* this past Sunday (July 31). Robert KD7WNV said it provided a useful complement to the ESCA repeater, located in Mountlake Terrace. Steve KD7IQL went up to the repeater site a couple of weeks ago. We have space to add another battery. We need to add a charger. Battery voltage was good.

Relay Editor – Gary KG7KU: Not present.

Webmaster – Jim KD7BAT: The website is pretty current. He needs to upload the Field Day presentation from Ivy WA7IVY. Needs to receive the July presentation from Robert KD7WNV on public service events.

Standing Committee Reports

Strategic Planning – Mike N7WA: Nothing new.

Education – Tim K7ANE: The Radio Club of Tacoma is offering a weekend Technician course, September 16-18. The course is free; costs are for the book and FCC exam fee. They will also offer a General course on Monday nights, beginning October 24 and running five weeks (5th week is the exam). Each course will use the respective ARRL license manual as textbook. Contact Kevin Kopp (206-720-5296) to register. George AE7G expressed interest in helping with an Extra class. Robert KD7WNV announced that ESCA RACES will offer simultaneous but separate Technician and General license courses running eight Monday nights, 7-9 PM, beginning September 26 in Brier. Jim KD7BAT mentioned a weekend course, September 24-25, by Renton City Emergency Management, at Fire Station 12, 1209 Kirkland Ave. NE in Renton.

Facilities – Daniel KL7WM: Nothing to report.

Technical – Alan KB7SVU: Nothing to report.

Public Service – George AE7G: Just getting through the busiest time of the year. Had a very successful RAMROD. Torchligh went well, too. The schedule eases a bit, now, but there are a couple of big multi-day bike rides this coming weekend (RSVP and Courage Classic), and a few more Seafair community parades through August.

Other Committee Reports

By-Laws – Dave KB7PSN: Nothing to report.

Field Day – Ivy WA7IVY: Has tallied our score and submitted the report to ARRL. Reviewed some of the score components. Overall score is up about 3,000 points from last year. We managed 240 bonus points for coaching on GOTA. George AE7G mentioned some ideas for improving the GOTA operation next year. We will have an antenna trailer work party at the home of Alan KB7SVU on August 21 (the day after picnic) at 10:00 AM. We will unload the trailer, sand down the metal and deck, and refinish.

Picnic – Hal N7NW: Approximately 45 have signed up so far. We have some left over meat from Field Day that we will use up at the picnic. Map and directions will be posted at the Salvation Army. **[Continued on Page 10]**

August 2011

K7LED Relay

M&K Board Mtg Mins... [Continued from Page 9]

Steve KD7IQL reminded the Board that VE testing will still be done at the Salvation Army 12:30. Everything is on track. We have Shelter 2 at Gene Coulon Park, from 8:30 AM to 1:30 PM.

Flea Market – Mike N7WA / Hal N7NW: On hiatus.

Old Business - None

New Business

Antenna Trailer Work Party – Alan KB7SVU: Deck of trailer needs to be made non-skid—we will add sand in the paint. We also need to put non-skid strips on the fenders. Work also includes installing a new winch for the crank-up tower. We will need brushes for some areas, but can also use rollers on the deck. Ivy WA7IVY will purchase the various supplies; George AE7G will provide her with a list. George has a paint sprayer but can't bring the air compressor to power it. Alan's air compressor can probably substitute. Alan wants the Club to buy a gin pole clamp, pulley, and 6' aluminum pipe. He has found a set, less the pipe, on eBay for just under \$200. Could be purchased in the next year if the budget gets tight this year.

Equipment Donation to Club: Approved accepting the equipment, by acclamation. Major items will be put up for sale at the Country Store at next year's Flea Market. Minor items could be door prizes. Alan KB7SVU noted that a detailed list should be compiled upon receipt. Jim KD7BAT will coordinate with the donor try to have the donor bring the equipment to the next Board meeting. Jim suggested that the Board adopt a policy regarding equipment donations, in order to expedite future donations. Daniel KL7WM moved that if three board members indicate approval by email, we will accept. Seconded by Alan KB7SVU. Motion passed.

Library Additions – Tim K7ANE: We have purchased five new books for the Club library. Some selections were based on the recent survey, others based on other input from Board members or Toku AD7JA. Subjects of interest are antennas, antenna tuners, mobile operations and GPS. We still have about half of library budget left for the year.

Good of the Order - None

There being no further business, Tim K7ANE adjourned the meeting at 2022 hours.

Attested: Robert Grinnell KD7WNV, Secretary

Wear the Mike & Key Club Logo

By Jim Aigner N7MU

Over the last few months you may have noticed the Mike and Key logo prominently displayed on fleece jackets and an assortment of shirts. Our logo was digitized in 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.

Source: PNW Hamfair webpage at <http://www.n7cfo.com/amradio/hf/hf.htm> .

Pacific Northwest Hamfairs & Events

August 20, 2011. Citizens Corps Expo. Washington State Fire Academy, North Bend, WA. [Flyer in PDF](#). (142k)

August 21, 2011. Antique Radio Swap Meet. Puget Sound Antique Radio Association. 9 AM to 1 PM. **New**

Location! Shoreline Senior Activity Center, 18560 1st Northeast, Shoreline, WA 98155. Free admission.

<http://www.eskimo.com/~hhagen/psara/swap.html> (Always the 3rd Sunday in August)

August 21, 2011. Surrey/Langley ARC Swap Meet. Surrey, BC. http://rac.eton.ca/events/detail.php?event_ID=1478

August 27, 2011. Highline ARC Swapmeet, Kent, WA. Gates & Controls, 6506 South 209th Street, #102, Kent, WA 98031 <http://highlinearc.webs.com/>. Talk in frequency: NC7G 146.660 (-) 103.5 Hz and 147.570 simplex. Open to sellers at 0800, open to buyers at 0900 and ends at 1300. Contact Dennis Reanier: w7uba@comcast.com, 206-241-6812.

August 28, 2011. Vancouver Island Ham Happenings 2011. Duncan, BC.

http://rac.eton.ca/events/detail.php?event_ID=1472

September 9-11, 2011. Northwest Automatic Position Reporting System (NWAPRS) Summer Gathering. Valley camp, North Bend, WA. Contact Thom k7fzo@arrl.net <http://nwaprs.info/sq.htm>

Please email any comments, corrections, questions, etc. to [n7cfo \[at\] n7cfo.com](mailto:n7cfo[at]n7cfo.com)

[Statement on the Website] 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. I suggest that you verify all dates and locations with the sponsor.

MIKE AND KEY ANNUAL SUMMER PICNIC

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

When: Saturday August 20st, 2011

*Where: Gene Coulon Memorial Beach Park
South Shelter #2*

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. 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 ragchew.

We will fire up the BBQ's and begin cooking at around 11:30. 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.

We currently have about 40 signed up for the picnic. If you haven't already signed up and are planning on attending, please let me know. If you can bring a side dish, that would be great but not mandatory. Please contact me at n7nw.hal@comcast.net or 253-549-4178. I want to be sure we have enough burgers and dogs for all.

Hal Goodell and Annie Rosello

Picnic Chair

Hope y'all come!!

Redmond Cycling Club's RAMROD 2011 - Event Summary – July 28

By Gene W7AKA and Fran N7FWZ Underwood

The Ride Around Mt. Rainier One Day (RAMROD) was a great success again this year. We had 30 hams including 5 new hams on the event and 800 riders signed up to ride. The course is the shortest possible route around the mountain – going from Enumclaw High School to Enumclaw High School. The riders start at 5AM and some don't finish until 8PM. The course is 150 miles and the Cyclists gain and lose 10, 000 feet of elevation throughout. The riders are some of the strongest riders in the world.

One of the most important characteristics of a successful ride is that there were no injuries of note. Again this year, we used five repeaters to talk around the mountain. They were the 146.7 MHz, 145.37 MHz, 223.92 MHz, 224.76 MHz, 444.875 MHz. We also use two cross band repeaters to fill in some radio holes.

Fran, N7FWZ, George, AE7G and Gene, W7AKA would like to thank the hams that worked so hard to make this a great event. The following is a list of Ham's who made up the Communications Team – without whom the event coordination and support would not be possible... *Thank You!*

Event Director – George Thornton AE7G**Assistant Director - Mike Norman KF7IGX****Radio / Road Management Coordinator - Fran Underwood N7FWZ**

Call	Name	Assignment
N7FWZ	Fran Underwood	Sweep, Follow Last Rider
W7LMK	Laura Kozma	Base
KA7TRK	Tom Killion	Security Ranger
KC7IAY	Bruce Miller	Eatonville Food & Water>Road 12
N7TCW	Flash Parlini	NPS HQ Communications
NS7C	Scott Currie	Wildwood Food & Water>Road 13
WA7NIW	Richard Radford	Park Entrance Checkpoint> Road 14
N7KUUW	Carl Leon	Inspiration Point Cross Band Relay >Road 15
N7RCT	Kathy Leon	Inspiration Point Cross Band Relay>Road 15
KB7MXX	Dwain Cochran	UpperBox Canyon Food & Water
KF7BYP	Michelle Cochran	Upper Box Canyon Food & Water
K7KXO	Rob Wiggins	Backbone Ridge Checkpoint
KD7MYC	David Flood	Cross Band Relay Below Cayuse Pass
N7RVC	Robert Swann	Cayuse Pass Comm.& Checkpoint
N0YC	Ted Boessenroth	Silver Springs (Deli)
KC7YYB	Dawn Humphrey	Greenwater Bicycle Count
N7QHC	Dan Humphrey	Greenwater Bicycle Count
W7AKA	Gene Underwood	Road 1–EMT& Carla Rickerson
KC7IYE	Adrian Jones	Road 2- EMT
AE7MK	Matt Kozma	Road 3– Paramedic
AE7G	George Thornton	Road 4
KD7WNV	Robert Grinnell	Road 5
KA7YER	Mitch Winter	Road 6– EMT
KE7EEE	Bill Thayer	Road 7- EMT
AE7U	Jan Grobbelaar	Road 8
WX7W	Bob Kelley	Kaposin>Road 9
KF7CSV	David Schumacher	Road 10
KA9UNA	Sandy Schumacher	Road 10
KC7IEU	Mark Canizaro	Radio 11 - w/ Mechanic 2
KB7EQP	Craig Tamura	Mechanic

The Seattle Marathon 10K Race - By Gene Underwood W7AKA

This event will be held on Saturday, August 27, 2011. It will start at 8 AM. The Seattle Marathon Association will be partnering with the Seattle Center and the event will be in conjunction with and leading up their 50th Anniversary Celebration of the start of "the Seattle World's Fair" to be held in 2012.

For those of you that are a little younger than I, there was a great Amateur Radio Station located in the Alaskan Pavilion. I had a lot of fun operating that station, (all top of the line, Collins 1KW station). There was a 40 Meter beam, and a 20, 15, 10 meter beam. Until the Fair's technicians shielded the sound systems on the Fair Grounds, we could decide which sound systems to mess up by which way we pointed the antennas. Several hundred visiting hams signed the log book at K7USA.

The 10K course, starts at 2nd Ave N. & Mercer St. and then ends on the Seattle Center property on 2nd Ave N by the International Fountain. Most of the course is in downtown Seattle, with a segment going north on Aurora. There are about 3000 runners expected for this event.

We will need about 25 hams for this event. There will be a need for a ham at the Start/Finish Line, some hams on bicycle, several hams will need chairs, and some will be used as shadows for the race officials. About 2 hams will be located at the Water Stations. Good Dual Band (144/440MHz) 5 watt HT's should be work well for this event. Always consider having a spare, charged battery and an extended antenna. Three hams will need to have APRS mobile radios in cars that can transport at least 4 runners. Most positions will be near parking areas.

We will hold a training meeting at our home a few days before the event.

Please contact: Gene or Fran Underwood, 425-226-4115 or C 425-890-5752

w7aka@comcast.net



'Toku' – AD7JA

M&K-K7LED Club Library

New Library Materials

By Tim Kane – K7ANE



If you drop by the club library at Toku's (AD7JA) TV repair shop in Skyway in the coming weeks or stop by the library table at the September general meeting you'll find five new books. (We'll have them in August, but they won't be at the club picnic.) The books were selected based on the preference survey we held at the general meeting a couple months back, plus input from the board and others.

The nice weather and the impulse to get outdoors seems to have influenced the results. Antennas are clearly the number one interest of club members at present, as reflected in the fact that three of the five new acquisitions relate to this key outdoor element of our stations. The other two publications focus on mobile amateur operations, by car, boat, and even airplane.

Based on what you told us the new books include:

- ***Stealth Antennas, 1st Edition, 2010***
- ***Amateur Radio on the Move, 1st Edition, 2005***
- ***GPS and Amateur Radio, 2007***
- ***ARRL Guide to Antenna Tuners, 1st Edition, 2010***
- ***Small Antennas for Small Spaces, 1st Edition, 2011***

If you don't see a book on your primary interest, don't worry. We'll put in another order or two later in the year, working from the survey, and member input. Let me know if there's something you'd like to see the club acquire, that's not already on the list.

In the meantime, take a look at the new books at the library at Skyway TV & Radio Service, 11818 Renton Avenue South, Seattle. Enjoy some of the benefits of your membership, expand your knowledge, or just have a nice summertime read.

2011 -- Ham Nets & Events -- AUGUST / SEPTEMBER

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
14 1700 – NWWA-LDS Net 147.34 (Weekly) 2000 – King Co. ARES Net 147.08 (Weekly) 2015 – Kids Net 145.49 (Weekly) 2200 – NW Astronomy Net 145.33 (Weekly)	15 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)	16 2000 – Seattle Red Cross Comm Team Net (incl. 'Elmer's Corner') 147.080 (Weekly) 2000 – Snohomish Co. ACS/RACES Net 146.92 (Weekly)	17 2000 – Evergreen Intertie Gen/Tech Info Net – 145.33 (Weekly) 2000 – Educational Radio Net – PSRG 146.96 (Weekly) 2100 – NWSOAR Net 146.82 (Weekly)	18 1900 – M&K Public Service Net 146.82 (Weekly) 2000 – Computer & Packet Net 145.33 (Weekly)	19	20 1000–M&K Club Meeting, Renton 1230–M&K Ham Radio Exams, Renton. Scott- ag7t@arrl.net Parade – Celebrate Shoreline! hamsgroup@seafairparade marshals.com
21	22 1900 – Seattle ACS Net 146.90 (Weekly) 1930 – PSRG Net 146.96 (Weekly) 2000 –YL Net 145.33 (Wkly)	23	24	25	26	27 0900 – WA State Emerg. Net (WSEN) ARES HF Net 3.985 (Weekly) Race – Anniversary 10K Race, Seattle Center WZaka@comcast.net
28 Ride-Summer Classic Bike Ride, Bainbridge Island dana@thesalesgroup.com	29	30	31	01 – SEPTEMBER –	02	03
04	05	06 M&K Board Mtg Salvation Army Bldg Renton, 7pm	07	08	09 Relay Articles Due – 23:59:59	10 Parade – Mukiteo Lighthouse Festival hamsgroup@seafairparade marshals.com 170-171 Ride-Bike MS: Washington Ride, Skagit-Island-Whatcom dan@esca1.com
11 170-171 Ride-Bike MS: Washington Ride, Skagit-Island-Whatcom dan@esca1.com	12	13	14	15	16	17 1000–M&K Club Meeting, Renton 1230–M&K Ham Radio Exams, Renton. Scott- ag7t@arrl.net