



From our Club President...

Bylaws Revision Redux (and Redux²)

By Robert Grinnell KD7WNV, President

Well, we screwed up.

A few days after the October General meeting, at which we held a vote that approved adoption the long-awaited set of bylaws revisions, it was brought to the attention of the Board that we did not properly follow the process as laid out in the 2001 Bylaws. In a nutshell, they stipulate that, following the Board's review and decision whether to recommend adoption, the proposed revisions be made known to the membership at the next General meeting and mailed to all members, then voted upon at the following general membership meeting (i.e., the second General meeting after the Board's review and decision).

In this case, the Board's review and vote to recommend adoption was at its October meeting. So at last month's General meeting—regardless of having mailed the proposed revisions to members—we could only make them known to the membership, and the vote should have been scheduled for the following (November) General meeting.

Recognizing this failure to comply with the prescribed process, the Board voted at our meeting earlier this month to declare "null and void" the vote taken at the October General meeting. (The 2001 Bylaws therefore remain in force at this point.) In order to complete the process properly, we will conduct another vote on the proposed Bylaws revisions at the General meeting this month.

"But wait, there's more."

As there were some concerns expressed at the October General meeting about the phrasing in some areas of the revisions, a group of members including life member Chuck Stroehrer, WA7EBH, and legal experts Michael Hansen, KG7MX, and George Thornton, AE7G, have continued word-smithing those areas to develop unambiguous phrasing that clearly expresses the intent of the Club.

The result is a further set of proposed revisions to the already-proposed revisions (which we are now calling the "October revisions"). At our November meeting, the Board reviewed this new set of proposed revisions, and voted to recommend their adoption to the membership.

Now, it may be obvious to ask if there is some way to combine the two, but there is not. There are different sets of members that are signatory to each, they are on different timelines in the process, and there is no provision for combining them. So at the November General meeting, we will hold a vote on the original ("October") revisions, and will officially make known to membership the newly proposed set of revisions. Following the meeting, the new set will be mailed to members, and we will vote on them at the December General meeting.

I'm reminded of what they used to say at the beginning of each episode of the old comedy Soap, after rapidly recounting the absurdly convoluted plot twists of earlier episodes: "Confused? You won't be after this episode!" That may be how you feel, but bear with us, and I think we'll end up with a sound set of bylaws in the end.

See you on the 16th!

Special People's Holiday Cruise - Help Needed

By Dick Radford WA7NIW

Again this year local Hams will be providing communications support for the annual Special People's Holiday Cruise. In this event we help keep track of several hundred developmentally disabled people from around the area as they board numerous boats at eight different locations, enjoy a boat ride, talk to Santa, and then return to where they started.

The event takes place on the afternoon of December 8 this year and requires about two dozen Ham Radio folks to help out. This is a good opportunity to practice your emergency communications skills, test your equipment, and have a good time. At the end of the event your toes might be chilly, but I guarantee your heart will be warmed.

If you can help out, please contact Dick: wa7niw at 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.

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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
34033 33rd Ave SW
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glbryan @ att.net

Reflector:

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

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Secretary	Ivy Nelson-Groves	WA7IVY	ivy @ wa7ivy.com	425-269-3259
Treasurer	Dave Smith	KB7PSN	kb7psn @ yahoo.com	425-235-5095
Activity Mgr	George Thornton	AE7G	GTLAW @ seanet.com	206-920-7072
Radio Officer	Hal Goodell	N7NW	n7nw.hal @ comcast.net	253-549-4178
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No. 1 – Education & Training	Jim Monson	K7JGM	jgmonson @ earthlink.net	206-245-8485
No. 2 – Strategic Planning	Monica Cook	KF7QLX	mdcook67 @ gmail.com	253-245-6435
No. 3 – Public Service	Gary Anderson	KF7TBC	gary5440r @ msn.com	253-631-5376
No. 4 (CoB) – Technical	Gil Drynan	W7GIL	gild @ seanet.com	425-392-1668
No. 5 – Facilities	Daniel Stevens	KL7WM	kl7wm @ arrl.net	206-228-9274
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Membership Committee—	mikeandkeymembers@gmail.com			
	Kathy Martin	KB7QMO	klsmartin1 @ gmail.com	253-631-5370
	Gary Bryan	KG7KU	glbryan @ att.net	253-279-3949
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 Etwiler	KD7BAT	kd7bat @ arrl.net	425-788-7887

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

On the Web – The Club's site at www.mikeandkey.org 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: glbryan @ att.net.

M&K Club - November Activities

By George Thornton AE7G, Activity Manager

The months of November and December will be busy. We have by-laws amendments to be voted and we also have to present and pass a budget. On top of all that we also have to get out a mailing for the annual Fleamarket.

We will try to find time to squeeze in the presentation on the Salmon Run. This will most likely take place at the November meeting.

The Membership Committee is having difficulty scheduling a separate Christmas party. The plan right now is to have a short party at the end of the business meeting in December. We will be providing refreshments. Come join us at the December meeting and join in the holiday festivities. Details will follow as the event gets closer.

We will resume meeting programs in January. Details to be announced.

I am happy to report that there IS sufficient funds in the Door Prize fund to be able to offer the Elecraft KX3 as the big year end prize. We will have more information at the November meeting.

See everyone at the Meeting!

November Door Prizes

By Jim Aigner N7MU

Among the door prizes this month is a used Dlink DES-1008E 8-Port Fast Ethernet Switch (used) and a 10 watt solar panel.

Here's the complete prize line-up for November:

- 2 Silver/Teflon PL-259 Connectors in a plastic Plano box
- Stainless steel insulated travel mug
- Swann SWPRO-535 650TVL Security Camera
- Mountain Survivor Dry Box
- Dlink DES-1008E 8-Port Fast Ethernet Switch (used)
- Sunforce 10 Watt Solar Panel
- Pack of 40 AA Alkaline Batteries
- 53 Piece Tool Set



M&K-FM'14: It's Flyer Stuffing Time!

By Michael Dinkelman N7WA

It's November and time to stuff the flyers for the upcoming 2014 Fleamarket.

For the newbies in the Club, in January we'll mail out around 12,000 Fleamarket flyers to hams between Olympia and Everett. However, before we can do that, each flyer (pre-folded) has to go into an envelope. Then the envelope flap has to be sealed and a mailing label applied. We work in groups of 2-4 people (some stuffing, some sealing, some labeling) and each group works with one zip code at a time. When a zip code is completed, it gets a rubber band and somebody counts the stack and marks the count on the back envelope. Then repeat, and repeat, and repeat.... We usually have a few overseers collecting and passing out stacks of flyers and envelopes.

What goes wrong? Well, some people can't count. Others can't put a label on straight. Some like to put two flyers in an envelope while others like to leave one empty occasionally. Non-the-less we will adjust to your skills and appreciate your help more than you can know. Considering the multiple thousands of envelopes we all are working with, I think we do pretty good.

We stuff from before the moment people start arriving before the meeting until Scott and his VE's kick us out (even during the meeting itself). This year, I believe Robert may regal us with his Salmon Run exploits while we continue stuffing after the business meeting. That said, it's amazing how much noise envelope stuffing creates so we do try to keep the noise level down. Hope to see you there, everyone seems to enjoy this activity.

Seattle Marathon—Needs Ham Radio Operators

Email received from Fran Underwood, N7FWZ

Your help is needed for the upcoming Seattle Marathon event. Send all responses to: w7aka@comcast.net, and to request more information.

Sunday, December 1 — Full and Half Marathon Run & Walk

Saturday, November 30 — Children's Staged Marathon & 5K event

Due to the logistics involved in preparing assignments and information packages, please respond ASAP. Indicate if you can work BOTH days.

Imperative Orientation Meetings at Fran's residence (attend one):

Saturday / 23-Nov — 10am & 2pm

Sunday / 24-Nov — 10am & 2pm

Monday / 25-Nov 7pm

Thank you for all you do in Ham Radio!

Sad News...Terry Dettmann WX7S, SK

By Jim Etwiler KD7BAT

Terry Dettmann, WX7S, became a silent key Saturday, October 19. Terry has been a member of Mike & Key since 2002 and enjoyed the challenges of QRP operation.

Terry was a Mike and Key board director for one year followed by service as the Radio Officer for several years until a health problem forced him to resign.

Terry was also active in KCESAR (King County Explorer Search and Rescue). He served as Director of Communications for KCESAR since 2008. This included being sure the communications equipment was ready before every mission and training and scheduling volunteers for in-town communications to support every search and rescue mission.

Terry's son, "TJ" (N7NDE) became a silent key in 2002.

M&K Radio Officer Report

By Hal Goodell N7NW, Radio Officer

Well, along with November it seems we have been getting some nastier weather in the mountains. The road conditions to the repeater site remain open, but are getting a little muddier. Fortunately the repeaters are working well and we have not had to make any emergency runs to the hill. I will be making a trip some time this month just to check the site out before the road conditions get too bad.



Just a reminder, that if you wish to look at the weather conditions on East Tiger mountain, the site of our K7LED repeaters, you can check out the live camera. Just go to <http://www.wa7hjr.org/>. Click on Live Video from the WA7HJR repeater site. This camera is facing towards the West, so at night you can see the lights of Renton and the Kent Valley.

We will be reactivating the Echo link feature on our 224.12 K7LED repeater in the following months. This was a very popular function a couple of years ago. With Echo link you can access the repeater from your computer or you can access Echo Link from your 220 transceiver. I have had many QSO's around the world via the 220 repeater and echolink network. With the smart phones there is an app now that will allow you to access the Echolink network. This should be fun and hopefully will bring some more activity back to our 220 repeater.

Celebrate Our November Members!

By Dave Smith KB7PSN, Treasurer

As of November 2013, these have been Mike & Key members for the number of years stated.

Congratulations to all of you, and thanks for your participation & service:

Richard Bridges	N7YOB	21 Years
Gil Drynan	W7GIL	20 Years
Joe Langjahr	KJ7DG	19 Years
Fred Roberts	W6TKV	18 Years
Ronnie LaFerla	KC7UFS	16 Years
Dick Radford	WA7NIW	13 Years
Dave Mackin	KB4ERF	12 Years
Hideki Saito	WU7J	11 Years
Tim Kane	K7ANE	7 Years
Robin Carter	WA7BRI	3 Years
David Tebrink	K7NZU	3 Years
Charles Graff	K7CHV	2 Years
Don Heaverlo	KF7ZED	1 Year
John Robson, Jr	AC7LK	1 Year

M&K-FM'14— Fleamarket Signups

By Michael Dinkelman N7WA

Last year we tried an on-line signup system called **Volunteer Spot** for Fleamarket workers. I thought it went very well and it really reduced my work load. Better than that, I was able to produce labels with everyone's schedules shifts to go on back their worker badge. If you were a worker last year and have an email address, you probably received your invite to sign-up. You can only sign up if you receive an invitation. You can't use somebody else's invitation and you can't go to VolunteerSpot.com and signup either. (VolunteerSpot is used by organizations with kids so the sign-up restrictions are there so organizations can easily control those working for them.)

Of course, if you don't have email, or just don't like signing up on-line, I can manually sign you up. You just have to catch me at a meeting and let me know what shift you want. If you're new and have email, I can send you an invite if you let me (n7wa at arrl dot net) know your email address.

When you get to the site (following the link in your email), you'll see there are two days in which you can sign up for shifts. The shifts are generally two hours long and are organized by department (loading dock, security, announcing, etc.) Each shift has a maximum number of signups so signing up early is your best chance of getting the jobs and shifts you want. Some jobs are restricted because the Chairman needs more control of their workers (VE, Treasurer, Registration come to mind). I would advise talking to the Chair of that department first before registering for those jobs, else, you may get booted out. There is a little description of each job and any limitations like physical labor required.

We need about 120 workers for the Fleamarket. It's helpful if you signup for more than one job/shift. Don't forget we need setup and teardown crews as well.

Ham Radio Public Service 2013

By Liz Budbill N7ZXH



Thank You! Thank You! Thank You!

Although we are not quite through with events for this year, on behalf of the Seafair Parade Marshals I want to thank you for your commitment and dedication. November 9 was a spectacular Auburn Veterans Day Parade. **Thanks one and all!**



IR Antenna For Sale

By Dan Humphrey N7QHC

I have a big IR Vertical set up at my QTH. Asking \$500/obo.

Call 206-276-5110(cell) or 206-243-0163(message).

Membership Committee Report—October 19, 2013

By Rita Danielson KD7CNU



The Membership Committee met at the La Hacienda restaurant at 811 S 3rd in Renton following the October General Membership meeting.

There were nine (9) in attendance: Gary Bryan—KG7KU, Ric Danileson—K7RIC, Rita Danielson—KD7CNU, Ivy Nelson-Groves—WA7IVY, David Smith—KB7PSN. Excused: Kathy Martin—KB7QMO.

Guests: Robert Grinnell—KD7WNV, James Wraalstrad—WQ7H—(one more meeting and you're part of the committee, James)

Rachelle "the Magnificent" Gill—KF7QCN, Tyler Gill—KD7MJO

There is a small hiccup with the Holiday Party. We are not able to use the Salvation Army building as previously announced due to scheduling issues. So we will be having a "**Holiday Indoor Picnic**" during our **December general meeting**. George, AE7G, said we could be the program. So, after the general meeting, you are invited to join the Membership Committee for sandwiches, vegetable trays, simple desserts and beverages. While this isn't the Holiday Party we had planned, we will still have a good time. So please make plans to attend our December General Meeting, December 21 and wear your ugly Christmas sweater. There will be a prize for the ugliest sweater. Determined by vote.

Other items discussed:

Flea Market—The Membership Committee will have a table set up again this year. We will have the Public Service Booklets available with some other items.

Awards Banquet—we will begin planning in earnest the Awards Banquet after the first of the year. We are looking at the Old Spaghetti Factory again this year. Tentative date, Saturday, March 29, 2014.

Outstanding topics include:

Construction at the Salvation Army looks like it's almost completed. While, they didn't add any parking, the dumpsters in the front parking lot should be gone soon so that will free up a couple more parking spots.

Our next meeting will be at the **La Hacienda Restaurant** at 811 S 3rd in Renton, following the general membership meeting. Please feel free to join us.

At each of our general meetings you will be greeted by the committee members. You will recognize us by our Tee shirts with the club logo.

Ivy will greet you with a hug (with your permission, of course) and Gary will greet you with a handshake and a smile.

Rita sends out renewal notices via e-mail and snail mail and Ric is our photographer.

Kathy will take club membership applications and present them to the board for approval and to the general membership at the next meeting, for the membership approval.

Dave is our Club Treasurer. He loves to take your money. He will take cash, checks and now credit/debit card (for a small transaction fee).

The Membership Committee's main focus is YOU, the Mike and Key ARC Member.

We are your committee. If you should have some ideas or concerns for the committee, please feel free to share them. You can talk to any of us before or after the general meeting, or send us an e-mail at: mikeandkeymembers@gmail.com

We look forward to hearing from you.

Some Ham Radio Poetry

Contributed by Michael Dinkelman N7WA

Who says Hams are all geeks and lacking refinement? The following ditties are by Rod Newkirk W9BRD (sk) who wrote the ARRL's **How's DX** column for QST back in the 60' and 70's. Ancient times one would say. Well, the following words are still true 40-50 years later as he describes the well attended meetings of the **DX Hoggerly and Poetry Depreciation Society**.

*That hog in the manger, MacSpray,
Enrages the rare ones each day,
They don't heed his squeaks
So he steps on their freqs
Till they naturally all go away.
(Source: QST, May 1961, p. 71)*

*Flat-topping Crudboy MacGee
Replies to all gripers with glee:
"Paid 900 rocks*

*For this jazzy new box -
Complain to the factory, not me."
(Source: QST, May 1972, p. 106)*

*Von Querk sits there screaming his call -
It's enough to make rugged men bawl.
When asked who he's after
He answers with laughter,
"Dunno, I'm just joining the brawl."
(Source: QST, May 1972, p. 106)*

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

Area	Elmer Coordinator	Email	Phone	Description
Stations, Equipment	John Robson, AC7LK	robson.j@comcast.net	253-984-6709	Station setup, eq't selection, antennas, digital
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
Digital Modes	Curt Black, WR5J	wr5j@westseattlearc.org	206-755-4541	Digital modes, software, TNC's
D-STAR	Curt Black, WR5J	wr5j@westseattlearc.org	206-755-4541	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	Hal Goodell, N7NW	n7nw.hal@comcast.net	253-549-4178	6 meters and up; moon bounce, meteor scatter

Contest: Salmon Run Results

Contributed by Michael Dinkelman N7WA

[The complete tally is here: <http://www.wwdx.org/images/stories/SalmonRun/2013results.pdf>]**N7XS #1 in State, Single Op Low Power SSB****#5 in State, Overall****#1 in Snohomish County, Overall****K9VD #10 in Snohomish County, Overall****K6DOW #23 in King County, Overall****N7WA #1 in Mobile CW (only entry)****W7P (w/ KD7WNV, K7ANE, KF7HJ)****#1 Skagit County, Overall****#2 Expedition MultiOp Single Transmitter, Overall****Mike & Key ARC, #4 in Washington Club scores (4 logs totaling 473877 points)****We need more next year!****W7JWJ Harry Lewis (SK) and The Morse Code**

By Bill Balzarini KL7BB

You and I struggle to learn the individual sounds of each Morse Code Letter and Number. Memorizing each pattern of combined short and long sounds to form a recognizable and useable language symbol. This method takes time.

My having watched Harry Lewis W7JWJ perform his High Speed CW Magic for many years, it became obvious that he was using his highly honed skills as a professional broadcast engineer to gain his special insight on how to copy CW so fast.

As a broadcast engineer Harry always had the TV station transmitter "Live-On-The-Air" with a continuous streaming carrier.

I think that Harry cleverly figured out that he could apply the same concept to copying the Morse Code. He could leave the transmitter carrier always "solid on the air" and then just break it up with properly placed Spaces to form the individual Letters and Numbers.

What a concept ! Learning only One Element, "Spaces".

Next he would break up the continuous carrier using even longer spaces to form the spaces between the individual Letters and Numbers.

He then moved on with his high speed CW proficiency, to leave a lot more space between each of the words in a conversation or message .

Lastly the real genius behind his CW magic came when he perfected the use of the even longer space. Sometime used when sending VeEs.

Harry was quick to realize that he did not have to learn the complex patterns of dits and dahs, but rather only where he had to place the "spaces" in order to break-up the transmitter signal. All of that professional broadcast training was really put to good use.

As we all know that sending Long or Short Spaces requires no effort at all, because to send a space, you have to do nothing ! This is why he progressed so quickly to copying such high speeds of the Morse Code.

After all, CW is called Continuous Wave, and that the Sending of Spaces was the Magical Joy of Harry Lewis W7JWJ.

73 de Bill Balzarini KL7BB, 206-400-1723, KL7BB@Yahoo.com

M&K Photos From Our October General Meeting

By Gary Bryan KG7KU



The Mike & Key Team of Harry W7JWJ (SK) and Mary W7QGP (SK) Lewis

By Bill Balzarini KL7BB



Mary Lewis W7QGP (SK) with Harry Lewis W7JWJ (SK) at SeaSide. Circa 2006.



Harry Lewis W7JWJ (SK)(r) is shown here with George Stevens (also SK)(l).

There is so much that can be said about the Team and their effects on-about Ham Radio and the collective "service back" to so many NW communities.

Harry mentored so many thousands of hams with his classes and also with online tutoring.

Mary W7QGP spent her time engaging everyone she met about the enjoyment of ham radio and its multitude of activities. SCM, SM, ARRL-NW-Division-Director, Net-Control-Station for WARTS.)

The Public Service that they performed.(Outings and events all over the Northwest)(Santa-Talks, Torchlight Parade, etc)

The North Seattle Community College Classes for Ham Radio and Electronics.(Ran for Years)

The Hundreds and Hundreds of VE sessions all over the ARRL Northwestern Division.(both ARRL & W5YI)(Early exams also included the 20, 13, 5 WPM Code Tests)

The Thousands and Thousands of miles traveled to cover all of the ARRL Northwestern Division. (in their White Motor home)

The enormous effect that they had with hundreds of clubs and organizations.(Puget Sound Counsel of Radio Clubs, Mike & Key ARC K7LED, WWDXC W7FR-W7DX, WWARA-Repeaters, RC-Tacoma W7DK, North Seattle ARC, West Seattle ARC W7AW, Juneau ARC KL7JRC, Anchorage ARC KL7AA, Boeing Bears K7NWS, just to name a few.)

The 1977 SEA-Q-DX ARRL Division Convention. (over 3+ Years in the planning)(Generating the seed money for the ARRL National Convention in 1980) (SEA = Seattle area Clubs, Q= QCWA, DX= Area DX Clubs)

The 1980 ARRL National Convention here in Seattle (Seattle-Tacoma Airport Area).

The Hundreds of ARRL Sanctioned events. (From the ARRL Booths on the floor to up on the Dais during Banquets)(30+ Years at the Mike & Key Electronics Flea Market at Puyallup WA. each March.)

It was W7QGP Mary's work as ARRL NW Division Director to have an outside accounting firm, count and tally the ARRL Election results. (rather than the shipping clerk just putting marks up on a tally sheet over in the receiving department of the HQ Building)

W7QGP Mary's insight to make the ARRL VHF-UHF Repeater Directory small enough to fit inside a automotive glove box as well as her own purse was just part of her contributions that benefited the ARRL membership.

For me personally, Harry and I had many thousands of hours together discussing his methods for learning the Morse Code.(Yes my EXTRA license is a "Send and Receive at 20WPM" in front of Mrs. Williams and FCC Inspector Baliozian at the FCC office in Downtown Seattle WA.)

The Many back to back individual talks that we gave at both Seaside(SeaPac) and the Radio Club of Tacoma's Ham Fair at PLU, ran with myself starting off with the slow 5 to 20 WPM range, and Harry W7JWJ following up with the how to go for High Speeds 40 to 80+ WPM. Most folks attending were not prepared to hear Harry talk most of the time on nutrition and how the needs of the brain (food) have to be met, in order to really go faster in focus, while copying the CW. It was a lot of fun to watch Harry and others warm-up for a high speed run. He would practice a warm-up run, all the way up to 120+WPM using an electric typewriter. At this Speed, The Carriage Return function requires a buffer of over 7+ Letters/Numbers, before you can continue to type it all down on paper.

I will be giving a Method on "How to beat the Morse Code" Talk at SEA-PAC this coming June 2014.

It will include "How to Listen Ahead, Write behind-Delayed, While building a CW Code Buffer".

73 de Bill Balzarini KL7BB, 206-400-1723, KL7BB@Yahoo.com

From David Smith KB7PSN... [mkarc] Re: Harry W. Lewis, W7JWJ, Silent Key
<http://www.arrl.org/news/view/former-western-washington-sm-harry-lewis-w7jwj-sk>

Also received from Dave KB7PSN... Thanks to QCWA for uncovering this little bio ---

From the April 2001 Edition of the K7LED Relay, Mike and Key ARC
Introducing the Club's Radio Officer
Submitted by Radio Officer Harry Lewis, W7JWJ

I was born in British Columbia and raised in Northern Idaho. While a Junior in High School, I saw a copy of the American Morse code in a physics book. Since I thought it would be great for sending secret messages in study hall, I memorized it and built a homemade sounder and key.

I had a part-time school job running a projector for movies during school assemblies. One day, three of us were assigned the task so my buddy suggested we split and visit his ham station at his home across the street as only one projectionist was needed. We climbed through a hatch in the school roof, slid three stories down a drain pipe and made a 160 meter contact during which the rig caught fire. Something about using number 24 wire for filament leads. The knock on the door was the school principal telling us that we were coming in on the school sound system. I was hooked.

The following summer I was training for a State swimming meet, contracted polio, and was paralyzed from the neck down for the next two months. Finally, as motion returned to my arms, I would drag myself around our farm house like a walrus out of water. One day I managed to pull myself up onto a chair and there on the table was my home-brew sounder. The moment of truth had arrived. I realized that, even confined to a wheelchair, I could be a Morse Telegrapher and so I practiced until I could easily copy 55 to 60 wpm. The paralysis gradually left, at least from the neck down, and my first job was as a Morse Telegrapher in San Francisco. That was 60 years ago.

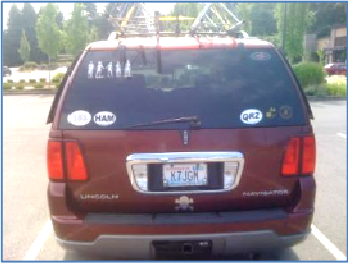
Time flies when you're havin' fun. 73

My Experience Building a Tower

By Jim Monson, K7JGM

After Field Day I was more than hooked on DX'ing and I realized I needed to get a tower built for a Cushcraft A4S I acquired with a 55' crank up tower. I do not have the room to install the crank-up tower at my current QTH so I had to come up with another option.

Enter Alan, KB7SVU. I did some work with Alan this summer and I noticed he had some Rohn 25 sections in his aluminum boneyard. I asked and Alan was willing to part with some sections and thankfully he was. The project has begun.



In reality I should have went through the permit process first but I was too excited to get this going. I went to the City of Sea-Tac and picked up my permit application. As with any jurisdiction, there were hoops to jump through but to my surprised it was not too difficult. A Google satellite image of the property identifying the proposed tower placement, the utility paths and entry points with the basic spec sheet from the Rohn website and I had the permit in 2 weeks from the time I applied for it. I was limited to 30' maximum height per City codes; however, PRB-1

may have to come out to play later....



Dig a hole..... Not much fun but it had to be done. I was able to get down about 3 1/2' and that was as far as I could go without standing on my head to finish the hole. Thankfully, my daughter, Anika, is small enough to do the work and she was in need of some girly teenage things; so I traded a car detailing and finishing digging the 1' for the hole for what she wanted. It was a great trade!



Next step was to get the drain gravel in the bottom of the hole, build a rebar cage, set the tower into the hole and mounted to the structure so I could get the project inspected. That went very well. I passed inspection the first round.

The next phase was to pour the base. I ordered the concrete from a small delivery service. The driver backed right up to the hole and we filled that hole. I used a mechanical tool to remove the air bubbles as the pour happened. That was interesting; I think my hands are still buzzing!



Build the tower! After about two weeks of allowing the tower base to cure I started to assemble the sections. NOTE TO SELF- Think through where you mount the gin pole! I managed to wedge the top section between the gin pole and the section below. I was able to get it to release with the help of Tim, KK7TJS. The top section finally was on.



Finally it was time to put the antenna up. We spent some time tuning it up first and then we took it up the tower. The tower is only 28' mounted next to the roof of the structure so we were able to hand it up instead of tramping it up. It was a little awkward until I got the balance point, then it became manageable.

Viola! A few months, a few bucks and help from friends, my tower was up! I passed the final inspection with the City and all was well.

UPDATE: This last weekend we had a wind storm. The A4S was moving quite a bit and I thought it would survive. It did not. The foremost driven element did not survive; but what a great opportunity to take it down, make a few adjustments and install a taller mast (PRB-1 to the rescue, perhaps). Blessings come in all different shapes, sizes and wind force.

73, K7JGM



November 2013

K7LED Relay

M&K General Meeting Minutes

By Ivy Nelson-Groves WA7IVY, Secretary

General Meeting Agenda – 19-October 2013

Meeting was called to order at 10:01 AM by the President, Robert KD7WNV.

Pledge of Allegiance. Introduction of members and guests.

Announcements:

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

Introductions

Officer Reports:

President – Robert KD7WNV: Two important items on today's agenda. We are still looking for committee chairs from the membership.

Secretary – Ivy WA7IVY: Nothing to report.

Treasurer – Dave KB7PSN: The books are in order.

Activities Manager – George AE7G: Today will be talking about Salmon Run, depending on how much time we have after voting today.

Chairman of the Board – Gil W7GIL: Nothing to report.

Radio Officer – Hal N7NW: Not present.

Quorum present.

Gil W7GIL made a motion to approve the minutes as amended. Steve KD7IQL seconded the motion. Motion passed.

Vice President – Kathy KB7QMO: Membership applications: no applicants were present.

Relay Editor – Gary KG7KU: Gary thanked everyone for their contributions to the Relay and invited others to submit articles.

Webmaster – Jim KD7BAT: Not present.

Standing Committee Reports:

Strategic Planning – Monica KF7QLX: Nothing to report.

Facilities – vacant: No report.

Education – Jim K7JGM: Daniel mentioned some upcoming classes he is holding. Other members mentioned upcoming classes as well. These will be posted on the web.

Public Service – Robert KD7WNV: A couple of big events coming up: Seafair – Veterans Day Parade; Fran - Seattle Marathon; Dick – Special People's Cruise. Email w7aka@comcast.net if you wish to help with the Seattle Marathon. The contact for the Veterans Day Parade is hamsignup@seafairparademarshals.org. Contact wa7niw@arrl.net for the Special People's cruise. It is also time to start thinking about the 2014 Public Service Booklet.

Other Committees (as appropriate):

VE Exams – Scott AG7T: There were 11 people attend testing last month. Awarded 3 Technician, 5 General and 3 Extra. Exams will be held today at 12:30 pm at the Salvation Army Building.

Logo – Jim N7MU: If you want the club's logo embroidered, please contact Jim; for name badges, contact Dan N7QHC or Dawn KC7YYB.

Membership – Gary KG7KU: Gary introduced the membership committee. We are nailing down specifics to hold the holiday party here at the Salvation Army in December. There are signup sheets on the tables and families are welcome. We are asking the membership to bring a salad or desert. There will be a white elephant exchange, and an ugly Christmas sweater contest. Contact Rita KD7CNU if you have any questions.

Field Day – Ivy WA7IVY: The wagon wheel has been reserved, as has the B&B; results should be out next month.

Flea Market – Mike N7WA and Hal N7NW: The next flea market meeting will be on the 2nd Tuesday of the month at Mike's home. Next month we will be labeling flyers at the meeting. Worker signups will start near the end of the month.

Awards Committee: Gary KG7KU pointed out in the relay our monthly anniversaries with the club and highlighted some longtime members.

Old Business: No old business.

New Business:

Approval on By Laws revision: Motion was made to approve the bylaws as published was made by Gil W7GIL and seconded by George AE7G. President suspended the motion until after the Trustee election.

Steve KD7IQL made a motion to table voting on the By Laws, second by Peter K4PNG; the motion was defeated. Daniel moved the question, seconded by George. The motion to end discussion passed. The motion to approve the By Laws passes.

Trustee Election: Replacement for Trustee Position No. 5 to replace John NU6A.

Nomination: Daniel KL7WM; Michelle WA7PVE. Daniel KL7WM was elected as trustee #5.

Alligator Award – Dean N7XS still holds the award.

Good of the Order:

Mike N7WA reports that 10M has been hopping. Ivy WA7IVY mentioned that this weekend is Jamboree-On-The-Air.

John NU6A mentioned that Seaside is going to be one of 6 designated regional sites for celebration of the ARRL 100th anniversary.

The next Mike & Key Board meeting will be on the first Wednesday of the month, November 6th at 7:30 pm, at the Salvation Army in Renton.

The next Mike & Key General Membership meeting is the third Saturday of the month, November 16th at 10:00 am at the Salvation Army in Renton.

Michelle WA7PVE made a motion to close the meeting; John NU6A seconded. The motion was passed. Meeting adjourned at 10:41 hours.

4 guests; 62 members, 57 ARRL members

Attested: Ivy Nelson-Groves WA7IVY, Secretary



M&K Board Meeting Minutes

By Ivy Nelson-Groves WA7IVY, Secretary
6-November 2013

Officers present			
X	President	Robert Grinnell	KD7WNV
Call In	Vice President	Kathy Martin	KB7QMO
X	Secretary	Ivy Nelson-Groves	WA7IVY
X	Treasurer	Dave Smith	KB7PSN
X	Activities Manager	George Thornton	AE7G
X	Radio Officer	Hal Goodell	N7NW
Trustees present			
X	No. 1	Jim Monson	K7JGM
X	No. 2	Monica Cook	KF7QLX
X	No. 3	Gary Anderson	KF7TBC
X	No. 4	Gil Drynan	W7GIL
	No. 5	Daniel Stevens	KL7WM
Other officers (non-voting)			
X	Relay Editor	Gary Bryan	KG7KU
	Webmaster	Jim Etwiler	KD7BAT
Visitors			
	Dick Radford		WA7NIW
	Chuck Stroehrer		WA7EBH
	Michael Hanson		KG7MX
	James Wraalstrad		WQ7H
	Sam Sullivan		N7RHE

The Chairman of the Board called the meeting to order at 7:41 p.m.

Minutes: A motion was made to approve the minutes as published was made by Robert KD7WNV and seconded by Dave KB7PSN. Motion passed.

Reports:

Chairman of the Board – Gil W7GIL: No report.

President – Robert KD7WNV: no report.

Vice President – Kathy KB7QMO: Membership applications for consideration: Jack Jensen KG7FSF; Thomas Taylor KG7CFC/AG. They were approved.

Secretary – Ivy WA7IVY: no report.

Treasurer – Dave KB7PSN: The Club's books are in order. Dave received a receipt for our donations to ARRL and a few certificates thanking us. Dave reported club expenses and income.

Activity Manager – George AE7G: Next big program will be in January. This month will be on the Bylaws approval and Salmon Run, if time permits. December will be for budget approval.

Radio Officer – HAL N7NW: The repeaters are working well. The service monitor needs repair, and Hal is working on getting it fixed.

Relay Editor – Gary KG7KU: Gary thanked everyone for their submissions to the Relay and noted the deadline for the next Relay.

Webmaster – Jim KD7BAT: Not present. The website has been updated recently.

Standing Committees:

Strategic Planning – Monica KF7QLX: no report.

Facilities – Daniel KL7WM: not present.

Education & Training – Jim K7JGM: Daniel KL7WM sent out some information on upcoming classes. Jim won't be at the next general meeting because he is teaching a class.

Public Service – Gary KF7TBC: Robert KD7WNV reported the Veteran's Day parade, the Special People's Cruise and the Seattle Marathon; Robert is not going to get some additional booklets – we have enough for now.

Technical – Gil W7GIL: Gil reported that a Silent Key's spouse is asking about an inventory of the equipment and Gil will be working on setting this up.

Membership – Kathy KB7QMO: Gary KG7KU reported that the committee met last month. There was a bit of a snag concerning location for the holiday party and are considering having a social event immediately after the December meeting, making sure that we respectful of the VE testing after the meeting.

Field Day – Ivy WA7IVY: No report.

Flea Market – Hal N7NW: Meeting will be held at Mike N7WA's home next Tuesday.

Old Business:

ByLaws proposal: There were some issues concerning our vote at the last General Meeting. Robert KD7WNV made a motion to void the October General Meeting vote due to procedural errors; George AE7G seconded. Motion passed. We will have to re-vote the proposed by-laws that were presented at October general meeting at the upcoming November general meeting due to the procedure specified in the current by-laws. This is informally referred to the as the October proposal by the board.

New Business:

ByLaws amendment proposal: (informally referred to as the November proposal by the board): Chuck WA7EBH presented some changes for the sake of clarity to the ByLaws proposed in October. The proposals were discussed by the board. Robert KD7WNV made a motion that the board recommend this proposal including the items changed for the sake of clarity, Gary KF7TBC seconded. Motion was approved.

Budget: Please send items for inclusion in the 2014 Budget to Dave KB7PSN.

Policies and Procedures: Sam N7RHE presented a Policy and Procedures document dated 23 July 2003; with a second sheet was dated 6 Nov 2013. These are rules that are an internal working document for the use of the board. The board has accepted these Policy & Procedures and George AE7G was appointed to head a committee to review them. George will accept proposed changes from the board/membership by email and asked that Michael KG7MX also assist with this effort. These are referenced in the bylaws by Section 3.06.

Good of the Order: No items for good of the order.

There being no further business, the Chairman of the Board adjourned the meeting at 9:22 pm, and there was much rejoicing.

Attested: Ivy Nelson-Groves WA7IVY, Secretary

Visual Zero Beat Indicator

(A simple-to-build CW station accessory that could net you more contacts)

By Allen Evenson, AE7TG

What is Zero Beat? According to the Merriam-Webster on line dictionary: 'Zero Beat' is "a condition in which two radio frequencies are adjusted to equality by first producing beats between them and then reducing the beat frequency to zero." <http://www.merriam-webster.com/dictionary/zero%20beat> It's making sure that the transmitted signal frequency is presented as close as possible to the desired listening frequency of the receiver on the other end. It can be important in crowded or poor conditions where the receiving station may be using a narrow filter. When transmitting low power (QRP), it may mean the difference between being heard and worked or being passed over for another signal.

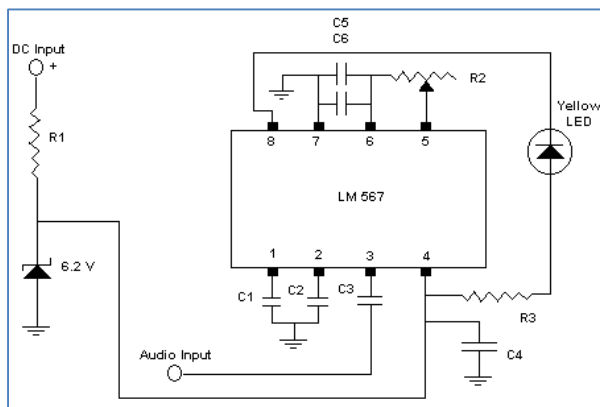
Some transceivers provide a feature that can achieve zero beat automatically. Others have means of producing a non-transmitted tone that may be used with the received to signal zero beat by ear. Many ops probably just go completely by ear and or peak the received signal. Methods differ by model and operator technique but all require time that may better spent making the contact or could be more accurate. Enter the Visual Zero Beat indicator.

The circuit (figure 1) was recently referenced in the North American QRP CW Club <http://naqcc.info> newsletter by John, K3WWP. See http://home.windstream.net/johnshan/cw_ss_zerobeat.html or contact me (email: ae7tg@arrl.net) for complete circuit details. It is based on a readily available IC and has few components. Once adjusted for use via R2 and the radio's side-tone, the LED will blink brightly in time to received code when the frequency is close to or at zero beat.

Building it proved to be a pleasant learning experience. Most of the parts were obtained at Fry's, the LM567 IC and zener diode had to be found by NTE number (Google is good for cross-referencing.) The circuit was first built and tested on a breadboard and then hard-wired to a small piece of proto-board. After it passed the 'smoke-test', it was hooked up to the radio for calibration and promptly didn't work. It turns out there was a ground point that was not properly soldered. The builder (ahem) also forgot to put the IC chip in the socket, duh! A picture of the finished result is shown in figures 2 and 3.

While the circuit works and is ok for use as-is, there remains the decision of what sort of enclosure to use. A simple power switch will be incorporated as well to conserve battery power. Some of the fun in building circuits, besides what is learned in the initial building and trouble-shooting, is modifying and customizing them.

On a final note, if a kit version of a more elaborate indicator is desired, one may be obtained at <http://wb9kzy.com/zerobeat.htm>. The author has not built the advertised device but there is a nice You-tube video of one in use. Hope to hear you in the center of my passband very soon. 73, AE7TG



(figure 1: circuit diagram)

R1 - value depends on DC voltage available. For 13.5V use a 470-ohm 1/4w, for 9V use a 180-ohm 1/4w.

R2 - 10K-ohm potentiometer

R3 - 470-ohm 1/4w resistor

C1 - 1.0 Mfd tantalum

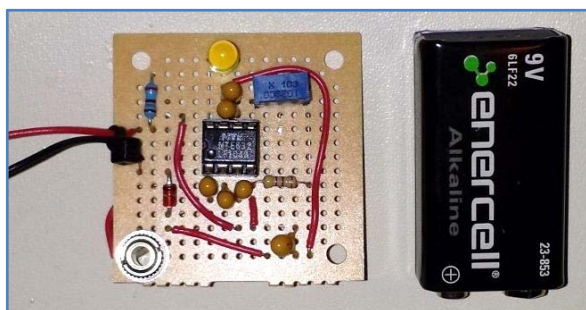
C2,C4,C5,C6 - 0.1 Mfd tantalum

C3 - 0.47 Mfd tantalum

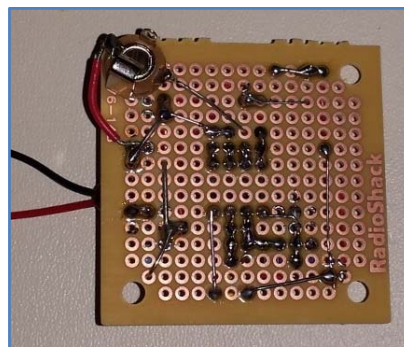
1 6.2V zener diode

1 8-pin IC socket

1 Yellow LED



(figure 2: Component side)



(figure 3: Solder side)



What's In the Club Library?

By Tim Kane, K7ANE
and Toku Okumura, AD7JA

We've been really glad to see that many of you have been taking advantage of the Mike and Key library. But we'd like to encourage the rest of our members to take the time to browse the many great amateur radio oriented offerings on the shelves at the library, or on the table at the general meetings. One of the benefits of M&K membership is that you can check any of them out for a month at a time, so you can peruse them at you leisure.

Some of the many titles we have include:

- *Radio Amateur Handbook, 1938: 1940-45, 1950/55, 1966-76, 1983/85, 1990-92/95, 2000, 2005-13*
- *Radio Amateur Callbook: US 1939, 1947, 1960/66, 1995, and International 1995*
- *"For Dummies" series: Ham Radio, Two-way Radio and Scanners, Circuit-building*
- *License Manuals: Tech, General (6th ed.), Extra (9th ed.)*

We'd like to know if there are any publications you'd like us to have in the club library. Based on member requests, some of our many recently acquired books include:

- *ARRL Antenna Book (21st edition)*
- *Basic Antennas: Understanding Practical Antennas...*
- *Vertical Antenna Classics*
- *Stealth Antennas*
- *Antenna Zoning*
- *ARRL's Small Antennas for Small Spaces*
- *ARRL Guide to Antenna Tuners*
- *ARRL Field Day Handbook*
- *ARRL Satellite Handbook*
- *ARRL Emergency Communications Handbook*
- *Emergency Power for Radio Communications*
- *Personal Emergency Communications – Staying in Touch*
- *Disaster Preparedness Handbook: a Guide for Families*
- *ARRL HF Digital Handbook, VHF Digital Handbook*
- *Amateur Radio on the Move – from your Car, Boat, Airplane*
- *ARRL's ABCs of SDR (Software Defined Radio)*
- *ARRL's Low Power Communications (QRP)*
- *ARRL DXCC Handbook*
- *And many more...*

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](#)

November 17, 2013. CVRS Antique Radio Swapmeet. Burnaby, BC. <http://canadianvintageradio.com/contact/> .
http://rac.eton.ca/events/detail.php?event_ID=1636

February 15, 2014. Salem Hamfair & Computer/Electronics Swapmeet. Rickreall, Oregon at the Polk County Fairgrounds. *This is an ARRL sanctioned event.* <http://www.w7sra.com> .

March 8, 2014. Mike & Key Swap Meet. Puyallup fairgrounds exhibition hall, Puyallup, WA. *This is an ARRL sanctioned event.* For information, contact dmdink@clearwire.net or n7wa@arrl.net .
<http://www.mikeandkey.org/flea.htm> [Flyer in PDF](#). (194K)

March 22-22, 2014. Communications Academy. Seattle, WA. *This is an ARRL sanctioned event.* <http://www.commacademy.org>

March 29, 2014. MicroHAMS Digital Conference. Redmond, WA. <http://www.microhams.com>

April 2014. Idaho State Convention. Boise, ID, Voice of Idaho ARC. Info, Don Lynn , ND7L, (208)899-5801, don_lynn@pacbell.net . <http://www.idahostateconvention.com/>

April 2014 Yakima Hamfest. Yakima, Washington. Selah Civic Center, 216 South 1st Street, Selah, WA. For information, contact Lindsay Kooser (509)965-6612 n7rhwa@arrl.net .

May 2014. Washington State Search And Rescue Conference. Ellensburg, WA. Kittitas County Events Center <http://www.wasaracon.org/>

November 2013

K7LED Relay

Ham Nets & Events – 2013 – November / December

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(Wkly)	12 1930:M&K Fleamarket Meeting Mike Dinkelman's 2000– American Red Cross /SeattleTeam Net 147.080 (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 Meeting 1230– M&K Ham Radio Exams At Salvation Army, Renton. Contact: Scott— ag7t@arrl.net 0900 – WA State Emerg. Net (WSEN) ARES HF Net 3.985 (Weekly)
17	18	19	20	21	22	23
24	25	26	27	28 Thanksgiving Holiday	29	30 Public Service: Children's Staged Marathon, Seattle. Contact: Fran N7FWZ w7aka@comcast.net
01 – DECEMBER – Public Service: Seattle Marathon, Seattle. Contact: Fran N7FWZ w7aka@comcast.net	02	03	04 M&K Board Mtg Salvation Army Bldg Renton, 7:30 pm	05	06	07 Public Service: Santa Parade – Auburn. Contact: Liz N7ZXH hamsignup@seafairparademarshals.org
08 Public Service: Special Peoples Holiday Cruise, Seattle. Contact: Dick WA7NIW wa7niw@arrl.net	09	10 M&K Fleamarket Meeting Mike Dinkelman's 7:30pm	11	12	13 Relay Articles Due 23:59:59	14
15	16	17	18	19	20	21 1000–M&K Club Mtg, Renton 1100— Club Holiday Party 1230– M&K Ham Radio Exams, Renton. Contact: Scott- ag7t@arrl.net
22	23	24	25 Merry Christmas! Happy Hannukah! Happy Holidays!	26	27	28
29	30	31	01 2014 – JANUARY – Happy New Year!	02	03	04