

K7LED Relay

Volume 46, Issue 2

Mike & Key Amateur Radio Club – Seattle

February 2018

February is Here!

From David Smith KB7PSN President

On February 2, Punxsutawney Phil saw his shadow – 6 more weeks before spring starts. Before spring starts, however, the Club will be hosting its Annual Flea Market down at the Washington State Fairgrounds in Puyallup, WA -- <http://www.mikeandkey.org/flea.php>

At the February 17 Club meeting, the program will cover much of the information needed to ensure volunteers at the Flea Market know the logistics, layout, and schedule of events to ensure a successful event. Brief schedule is Friday, 3/9, set-up and Saturday, 3/10 the Flea Market. After the Flea Market, around 6pm, volunteers go out to dinner at the Main Garden for family-style Chinese food.

Also at the February Club Meeting, we will be taking additional nominations for President, Vice President, Secretary, Treasurer, Activity Manager, and 2 of the Board Trustees (duties of each officer described within the [Club Bylaws](#), Article VI, 6.02 Elected Officers, on page 4). Elections of 2018 slate of officers will be held at the March Club meeting – officers term starts on April 1. To win, all nominees must be present at the March meeting to ensure they officially accept the nomination before being voted on by general membership vote.

Fleamarket Update and Workers Wanted

Submitted by Michael, N7WA

We are quickly flying towards March 10th and the Mike & Key Fleamarket. It's not too late to volunteer. I have 84 people signed up. Our biggest needs are:

Loading dock - Friday, the second and third shifts

Upstairs pallet crew - all shifts on Friday

Country Store - all shifts Friday and Saturday. (It's funny, Country Store used to be the first thing to fill up 10 years ago.)

Tickets: I need two sellers for the 12-2PM shift on Saturday

Hospitality: needs help setting up on Friday and plying food Saturday

You can volunteer at <https://mkarc.ivolunteer.com/> Badges will be available at the next Club meeting for those who sign up by Wednesday. Else, you may have to wait until the event itself. At the Club Program will discuss the event schedule and process.

Celebrate our February Members

By Jim Kiniry KE7JIM, Treasurer

As of February 2018, these folks have been Mike & Key members for the number of years stated. Congratulations to all of you, and thank you for your participation and service.

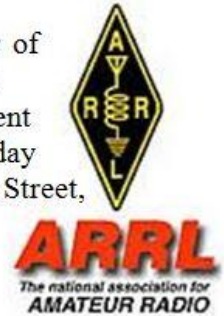
Happy Anniversary this month!

Each of you makes us who we are.

Name	Callsign	NumYears
Hal Goodell	N7NW	44 Years
Dean Holtan	N7XS	28 Years
Sandra Dunkel	K7OZY	27 Years
Richard Danielson	K7RIC	24 Years
Adrian Roth	KB7BVL	22 Years
Paul Roth	N7DOH	22 Years
Brendan Burget	KD7IKV	18 Years
Curtis Hanner	N7MWC	18 Years
Dawn Hanner	N7VWH	18 Years
Chuck Richardson	N7LMT	13 Years
David Brinkmann	N7UNN	10 Years
Randy Stagers	K9VD	8 Years
John Swafford, II	W7MEU	8 Years
Jim Monson	K7JGM	5 Years
James Wraalstad	WQ7H	5 Years
Dan Aalberg	KG7DAB	4 Years
Rudy Bagtas	KF7KGD	2 Years
Mike Blaszcak	K7ZCZ	1 Year
Alfred Mannings	K17XS	1 Year
Koda Mondragon	K17IXR	1 Year
Burnell Ruedebusch	KB0ACO	1 Year



The *K7LED Relay*, published monthly, is the official newsletter of the Mike & Key Amateur Radio Club. The Mike & Key ARC is an ARRL-affiliated club dedicated to the growth and betterment of Amateur Radio. The Club meets at 10AM on the third Saturday of each month at the 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

Email:
info @ mikeandkey.org

Send newsletter submissions to:
Michael Dinkelman, *Relay* Editor
n7wa @ arrl.net
253-631-3756

224.120 output / 222.520 input
(PL 103.5)Tiger Mountain

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

Club Contacts

President	David Smith	KB7PSN	kb7psn @ yahoo.com	425-235-5095
Vice President	David Yarbrough	WA7DY	wa7dy@arrl.net	425-445-2792
Secretary	Phillip Pia	K7PIA	k7pia@yahoo.com	253-307-4781
Treasurer	Jim Kiniry	KE7JIM	ke7jim@outlook.com	206-979-5717
Activity Manager	Jim Monson	K7JGM	jgmonson@earthlink.net	206-245-8485
Radio Officer	Hal Goodell	N7NW	n7nw.hal @ comcast.net	253-549-4178

Trustees

No. 1 –	Steve Cook	KD7IQL	kd7iql@gmail.com	253-245-6435
No. 2 –	Steve Marth	WB7AAV	marthnet@msn.com	206-915-2205
No. 3 – CoB	Tim Kane	K7ANE	k7ane@arrl.net	206-251-7467
No. 4 –	Tom Helm	WT7S	thomas.c.helm1051@gmail.com	206-307-6025
No. 5 –	Robin Carter	WA7BRI	rjc@centurytel.net	253-858-2008

Committees

VE Testing	Scott Robinson	AG7T	ag7t @ arrl.net	425-788-0452
Membership	Steve Marth	WB7AAV	mikeandkeymembers@gmail.com	
Logo	Jim Aigner	N7MU	jimaigner @ comcast.net	253-630-2752
Club Library	'Toku' Okumura	AD7JA	ad7ja@msn.com	206-772-2450
Webmaster	Jim Etwiler	KD7BAT	kd7bat@arrl.net	425-788-7887
Public Service	Robert Grinnell	KD7WNV	kd7wnv@arrl.net	425-398-1466

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

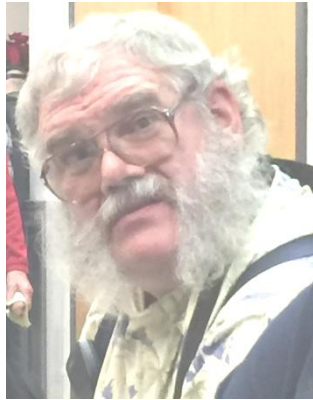
On the Web – The Club's site at www.mikeandkey.org includes extensive information about Club activities and events, such as: VE testing, membership, past editions of the Relay and more.

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: n7wa @ arrl.net.

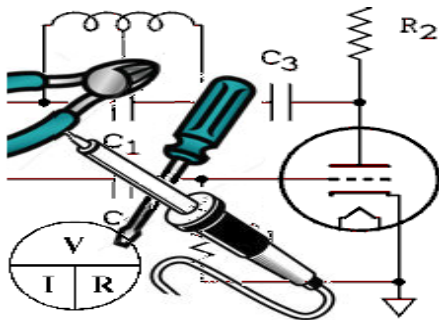
**New Member
January**

**Mark Humphrey
K1TTAW**



Around The Shack

By: Dan, KG7DAB



What's Inside That Coax? Am I transmitting? Is the modulation working? How much RF power am I generating?

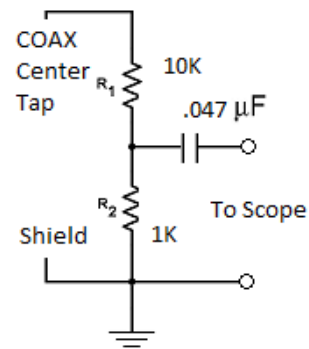
These were all questions that were running through my mind as I tried to figure out what was wrong with my IC-706MKII. That was a fun adventure and I'll be writing an article about it in an upcoming Relay.

I have an oscilloscope and knew that I can't hook it up to the RF directly. After some research and many YouTube videos, I soon discovered that most RF Probes and circuits are over complicated and everyone wanted to show-off how good their DIY project is and how "easy" it is to put together. Easy? More like hours and hours and a few more dollars acquiring parts than I was wanting to put into this project. Along with demodulation sub circuits, etched PCB's, soldering permanent SO-239 or BNC connectors that I just didn't need. All I wanted to do was peek inside the coax!

Then it dawned on me. I have a scrap coax jumper about 8" long. I'll never use it. How often will I really use this probe? I just need something temporary to help me fix my rig. Hmm...

Let's do it! All I need to do it tap into the center conductor so I broke out my X-Acto blade and carefully cut off about 1" of the outer casing. Then I cut the shield wire so it could be butterflyed open. I soldered the edges of the shield wire so they wouldn't fray and that would also give me a solder point for the resistor. Next I carefully notched out a chunk of the center conductor insulator and tinned the wire with solder.

The actual circuit is quite simple. A voltage divider to reduce the potential 100+ volts on the RF side down to a nice manageable 10 – 20 VAC on the oscilloscope. I used the voltage divider calculator on: www.mikeandkey.org/electronics.php and came up with an (approx.) 10:1 ratio.



I used a junk box 0.047uF cap (any small value will do) for the output and soldered it all together, dead bug style. Here is what I came up with:

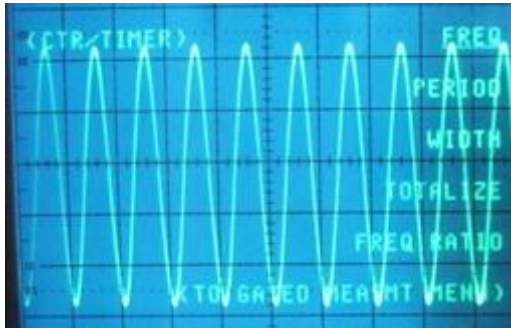


It worked quite well. I could see the RF carrier and could tell if modulation was making it to the dummy load or not. I could see the wavering RF power and all this was going to be instrumental in tracking down the IC-706 problem. Exact science? Not totally. Did I care? Not really. Can I figure exact values? Yes.

Warning! Math Ahead!

$$w = \left(\frac{(vx + vy)}{y} \right)^2 R$$

And if you really want to know the values for R,v,w,x and y, send me an email ☺ But here is all I really cared about:



The RF Carrier, modulation and frequency. The frequency on my rig matched the reading on my scope on all HF bands. Slowing down the time scale and AM was easy to see. Now, I can get to work. Did I fix the rig? Come back soon and find out. 73,Dan, KG7DAB

Activity Manager Report
submitted by Jim K7JGM

This month's activity will be a primer for this year's Flea Market. Please plan on attending both the primer and helping at the Flea Market. Many hands make short work!

This month's collection of goodies to raffle is the same good stuff! 73- Jim, K7JGM

Silent Key, Chuck K7CHV
submitted by Chuck WA7EBH

It is with great sadness that I report that Chuck Graff, K7CHV, passed away on Jan. 31, 2018.

I first met Chuck somewhere around 1974 when we were both taking flying lessons at the old Bellevue airfield. We became very close friends; his mom even remarked that we were like brothers. We even referred to each other as brothers.

Chuck served as an electronics tech in the Coast Guard during the Viet Nam conflict. Chuck was stationed on a Loran station on the Island of Yap in the south Pacific. He had a ham station installed and was a rare DX

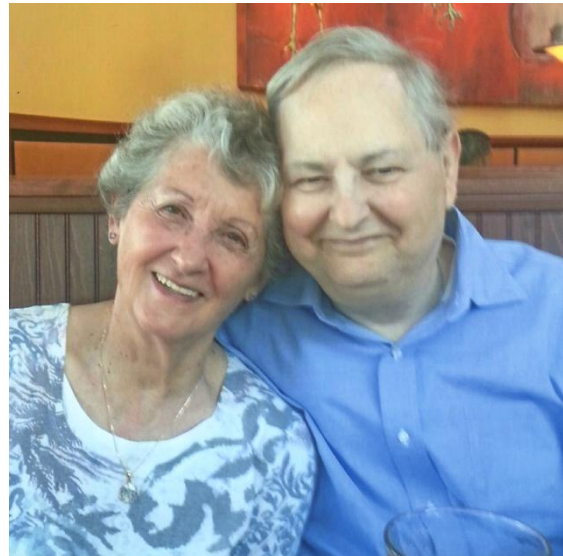
station. He loved working CW. Hal, N7NW, served as his QSL manager stateside.

Chuck worked for WSP radio shop in Bellevue as a radio tech and later as the shop supervisor. He went to work for Puget Sound Energy as a SCADA tech and later as a lead on the remote control of the power and gas control systems.

Chuck was involved in several ham organization; PARS (Puget Amateur Radio Society (Puget Sound Power/Energy)) and along with Bob St Andre, had PSE buy and install repeaters around the northwest. Chuck was also involved in the Bellevue emergency communications ARES group early on, Washington DX organization, Kent Valley Radio club, and our own Mike and Key Club, helping on the Flea Market and Field Day.

Besides ham radio, some of Chuck's other interests were; shooting, photography, blacksmithing, star gazing, clock building and repair, woodworking and many others.

Wife Lorie, N7LCO, wants to thank all of the well-wishers that have contacted her. Chuck will be buried at Tahoma National Cemetery in Kent, on April 4, his birthday. More info to follow in the March Relay.



Lori N7LCO and Chuck K7CHV

All of us will miss his sense of humor and laughter .Rest in peace, my friend. 73 de WA7EBH

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Coax Crimping Hands On *submitted by Michael N7WA*

Since last month's program, there has been interest expressed in crimping PL-259's instead of the traditional solder "mess". Towards that end, I will have a "hands-on" session prior to the next Club meeting.

I shall donate the coax and the crimps and will have the tools I use to make short work of installing PL-259's. (I am hoping George AE7G will make it with his new stripper.) You guys can do the squeezing (which provides so much more satisfaction than that soldering iron burn). The demonstration will run from 9:15 to 9:45

If you interested in PL-259 crimping but can't make the demo. Please check out the following web site:
http://www.bcdxc.org/pl259_crimp_on_connectors.htm

(This is also where I got that picture of the halved-PL259 in last month's Relay)

Around the Shack *submitted by Dan KG7DAB*

This is ***Around The Shack's*** first attempt at a monthly article. Looks like I'm by myself this month, but that's okay. We just need to find our groove.

Are you a closet Elmer and just don't know it? Do cool electronic and ham radio stuff *around the shack*? If so, please share it! Others really need this, they just don't know it until you write about it.

Send me an email at kg7dab@arrl.net with an attached MS Word document containing your article. Got Pics? Paste them in. Then, I will format the articles you send me and hand them over to our Relay editor, Michael, to post into the Newsletter.

Let's see how many Bylines we can get in next month's [Around The Shack](#). 73- Dan, KG7DAB

Coping: Sunday Night is SKN

George Ure – *ACTX - Urbansurvival.com*
(originally published December 29)

-Courtesy of Robin Carter, WA7BRI, Trustee #5, Trng & Edu

Prepping/Comms: SKN - This is a very big deal in celebrating the heritage of Ham (Amateur) Radio. Occurring this last December, Sunday night to Monday night was Straight Key Night – SKN for short.

There is still a pretty good base of us "Old Timers" who can copy Morse code at 30+ words per minute. If you don't remember the Jay Leno "showdown" between

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some kids texting and a couple of good Morse ops, perhaps watching the video on YouTube will bring you up

to speed... <https://www.youtube.com/watch?v=pRuRE-Bwk1>.

The Jay Leno show was not an odd event. Here's another example of how Morse smokes texting done on a television morning show...
<https://www.youtube.com/watch?v=OSqRSNQwDwg>.

A long lead-in (*skip to the end minute or two) but the idea is pretty simple: Morse Code Rocks! Just so you can feel knowledgeable, International Morse Code is made up of Dits (shorts), Dahs (longs), and precise spacings. An "A" for example is dit dah. "B" is dah dit dit dit. And so forth.

When you start off, the customary "Hand Key" is where you begin. That's the classic image from the movies. High speeds come with a mechanical Speed Key (called a Bug) or electronic speed keys called Keyers. Ultra-high speed can involve a keyboard for sending.

My personal best was around 43 words per minute (back in my high-speed days). Recently, I was sketchy at 38-40, pretty solid at 35, and going out for a sandwich at 25. The real limiting factor is writing it down. Using a pencil, writing 25-words per minute is a LOT harder than it looks. A Morse operator writes in block letters chosen for speed of writing.

Morse is sometimes called CW. That's short for Continuous Wave – the carrier of a radio transmitter. I will likely dust off my "collectible" Vibroplex Centennial Edition for a few minutes.



The difference between a Bug and a Keyer is the Bug makes the dits (shorts) only. The Keyer makes dits and dahs both. When you make the dahs (longs) on a Bug, there is some tendency not to be so consistent (compared to an electronic keyer) so many Older Ops (ahem,,,) get accused of having a "Banana-Boat-Swing" to their sending "Fist."

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It's called a "Fist" because sending on a regular (Straight Key) involves precise "pounding of the brass" connectors with your "Fist."

A kind enough mention could never do justice to the fine work of the International Morse Preservation Society (www.fists.org). Been a member in the past and will again in the future.

One last footnote: SKN occurs when a lot of us "Old-Timers" fire up our tube type gear. Although the newly arrived Johnson Thunderbolt linear amplifier I purchased will probably not make it to the operating position in time, one of the tube rigs will do fine. This is an old Drake 2B receiver (left) and a Gonset GSB-100 transmitter on the right:



Here's the short story about why the Drake/GSB-100: That was the first ham radio I ever talked on: All the way from Seattle to Anchorage during the aftermath of the Good Friday quake back in 1964.

Tube-type gear is more resistant to electromagnetic pulse (EMP) events, but until the North Koreans go off on that fork, it's not a worry. Still, mankind has never built the weapon that doesn't end up being used in anger sometimes...

Morse Code isn't for everyone...it's just one of those survival skills that will let you pass a message to others under very unusual circumstances or conditions. It's been used in covert ops, prisons, hospitals, and lots of unexpected places people don't think about.

My wife knows that if I ever lose my ability to write or run my onboard "voice processor", Morse Code is still a way to pass traffic. People with strokes have done it...

So, if you noticed an abundance of very out-of-practice ham radio people "pounding brass" while you were tuning the old shortwave around Sunday night or during the day Monday last December 29th, that's what all the clicking was about.

Just Old Timer's "living-in-the-day" - on the theory it may come around again. Write when you get rich,

Renton Emergency Preparedness Academy

submitted by Dave KB7PSN

Surviving Mass Violence Class - Incidents of mass violence seem to be almost an everyday occurrence in America. Nobody likes to picture it happening to them, but would you know what to do if you found yourself in the wrong place in the wrong time?

An expert from the Renton Police Department will answer questions about surviving shootings and other forms of violence, and give tips on what you can do if the unthinkable happens to you. Date: Thursday, March 1 Time: 6:30 - 8:30 p.m. Location: Renton Technical College room C111.

The class is free but registration is required. Use code 60730 at www.rentonwa.gov/cybersignup or call (425) 430-6700 to sign up. To see other upcoming preparedness classes please visit www.rentonwa.gov/repa.

Membership Committee Report

submitted by Rita, KD7CNU

The Membership Committee met at the Renton Library following the general meeting on January 20th. We began working on the Awards Banquet. While we won't have the entertainment we had last year, we are hoping this year will be just as entertaining. We will once again have our banquet at the Buriel Elks Lodge. Date and time to be determined. We are planning on Saturday, April 7, subject to Lodge availability.

This year's theme will be Carnival. We are having fun planning this and hoping you'll make plans to join us. We will have more information for you next month. We will be keeping the cost of the dinner at \$15.00 per person. There will be no host bar service.

We will have our next meeting, Saturday, February 17th following the general meeting at the Renton Library at noon. Please join us as fresh ideas are always welcome. Those attending our January meeting were:

Dave Smith KB7PSN	Sandy Dunkel K7OZY
Kathy Martin KB7QMO	Ric Danielson K7RIC
Rita Danielson KD7CNU	Jim Kiniry KE7JIM
Tom Helm WT7S	

Cool Product

submitted by Michael, N7WA

No, I'm not gonna tell you what it is:
<https://www.sparkfun.com/products/14567>

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**MIKE AND KEY AMATEUR RADIO CLUB
General Account Audit**

January 20, 2018

From: Audit Committee
To: Mike and Key Amateur Radio Club
Subject: Audit for fiscal year 2017

On January 20, 2018, the listed members conducted an audit of the Club's financial records for the purpose of preparing this report.

REVENUE

Revenue was traced from receipt records, club meetings, etc., through recording and deposit. In addition a review was made of the monthly bank reconciliation's and the timing of deposits. No discrepancies were noted.

EXPENDITURES

In reviewing expenditures and associated disbursements we took a monthly sampling of invoices and requests for reimbursements. In each case the items were confirmed for authorization. No discrepancies were noted.

COMMENTS

It is the opinion of the undersigned that the financial records of the Mike and Key Amateur Radio Club represent a fairly accurate record of cash receipts, disbursements, and deposits for the fiscal year 2012.

Signed by Members of the Audit Committee

Sam Sullivan N7RHE Chair

Scott Robinson AG7T

George Thornton AE7G

Tim Kane K7ANE, Trustee

Steve Marth WB7AAV, Trustee

Special Olympics USA Games 2018

Hi Mike and Key,

As a fellow amateur radio person, I am sending your club information for volunteering at the Special Olympics USA Games 201. Please distribute the information to your club members and others. Thank you very much and let me know if you have any questions.

The Special Olympics USA Games 2018 will be held in Seattle between June 29 and July 7, 2018. We are looking for LOTS of volunteers. We are hoping you will

help spread the word via an email(s) to state CERT contact leads. If there is a group that would like a presentation about the USA Games, please let me know and we will arrange one.

Emergency Management Group – Washington is coordinating the emergency response planning and operations aspects of the event. We are looking for volunteers to help with planning, medical and security support for the USA Games. Note these volunteers will need to have completed several FEMA Incident Command System classes [available on-line] or, as applicable, have appropriate medical credentials.

Additionally, USA Games is looking for general volunteers to help with all of the other aspects of the event. One unique volunteer opportunity is to be a “fan in the stands” for events covered by ESPN.

The attached flyer provides additional information or people can go directly to the USA Games site to volunteer.

<https://www.specialolympicsusagames.org/volunteer/>

Thank you in advance for any assistance you can provide in spreading the word. Let me know if you have any questions or want more information.

Gail Coburn KE7IBM

Mike & Key ARC General Meeting

**Saturday, January 20th, 2017 at 10:00 am
Salvation Army Building, Renton, WA**

Opening:

The meeting was called to order at 10:00 am by the President, Dave Smith KB7PSN. The Pledge of Allegiance was recited. Members and guests were introduced: “What was the last Ham Radio band you used?”

Announcements:

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

Officer Reports:

President - Dave Smith KB7PSN: There was a Silent Key reported yesterday - Jean Swinney KB7CLF; memories were shared, and a moment of silence was held. The reservation was made at Gene Coulon Park for this summer's Picnic.

Secretary - Phillip Pia K7PIA: Nothing to report.

Treasurer - Jim Kiniry KE7JIM: Come on by and pay your dues. The books are in order.

Activity Manager - Jim Monson K7JGM: There is some good stuff for the Raffle today. Mike Dinkleman N7WA will be presenting today's post-meeting program, which will focus on the basics of coaxial cable.

Vice President – David Yarbrough WA7DY: A quorum is present.

- *Minutes*: Chris Rose AE7XQ moved to accept the minutes as published in the Relay; Peter Glaskowsky K4PNG seconded the motion. The motion passed.

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- New Membership: Mark Humphrey KI7TAW
- Recognition: Dick W7INK for 45 years of membership.

Chairman of the Board - Tim Kane K7ANE: Nothing to report.

Radio Officer - Hal Goodell N7NW: The repeaters are performing just fine. There is a net on the Club 220 machine every Sunday at 3 pm; it is hosted by Rob KC7FBN.

Editor Reports:

Relay Editor – Mike Dinkelman N7WA: Send in your articles and pictures. A new monthly column entitled “Around the Shack” was started by Dan KG7DAB.

Website Committee - Dan KG7DAB reported that the website is progressing nicely. Updates to the Flea Market page were made; you can now find the volunteer link [here](#). An [electronics reference page](#) was created.

Committee Reports:

Membership – Rita Danielson KD7CNU: We are meeting after today's program at the Renton Library.

Facilities and Publicity - Steve Cook KD7IQL (liaison): Nothing to report.

Education and Training - Robin Carter WA7BRI (liaison): A listing of upcoming licensing courses are on the [Classes](#) webpage.

Public Service - Robert Grinnell KD7WNV: The public service season is still on the mid-winter hiatus. The Chilly Hilly could use some volunteers on February 25th. The 2017 booklets are still available; see me if interested. We are working on the 2018 booklet; if you have any changes or updates that you know of, please let me know ASAP.

Technical and Special Interest - Steve Marth WB7AAV (liaison): The Tech Net meets on the Club 2m repeater (146.820- 103.5) every Wednesday at 7:30 pm.

VE Exams - Scott Robinson AG7T: At the December VE Exam session there were nine examinees, with four Technician, four General, and one Amateur Extra licenses/upgrades obtained. For the year 2017, there were 126 examinees, with 57 Technician, 31 General, and 19 Amateur Extra licenses/upgrades obtained. Thanks to all the members of the Volunteer Examiner team who helped make the last year a success.

Flea Market - Hal Goodell N7NW: March 10th is the date of the next Flea Market at the Puyallup Fairgrounds. There are about 45 job slots still left; any and all volunteers (don't have to be members or even a ham) are welcome - we could use the help. Some perks of volunteering include free admission, getting in early (the best deals are often made before the event), and commission-free selling for volunteers at the Country Store. To get everyone on the same page, a Flea Market primer will be presented as next month's program. It's only a six hour event, but we make a good bit of proceeds off of it - it helps to keep our membership benefits at a high level, and our dues low. There's usually a bunch of good stuff available for sale - anything one might need for ham radio can likely be found. A

lunch will be provided on Friday for those who help set up, and we have a great Chinese dinner at the Main Garden restaurant in Puyallup for volunteers after tearing down on Saturday. Worker badges will be passed out, and dinner tickets will be available for purchase at the next General Meeting. The bottom floor is sold out, and the top floor is about 75% sold (around 50 tables left).

Field Day - Ivy Nelson-Groves WA7IVY: We will be selling some of the excess equipment in the equipment trailer at the Flea Market. Further Field Day details will be coming in April. The event (like every year) is on the fourth full weekend of June. Robert KD7WNV will be putting together a t-shirt and merchandise order.

Audit Committee - Sam Sullivan N7RHE: The 2017 general account audit was completed this morning; it passed with flying colors.

Old Business: None heard.

New Business:

- Election Nominations - The first round of the 2018 March Election nominations was held. After this round, the candidates thus far are as follows: for President, David Smith KB7PSN; for Vice President, David Yarbrough WA7DY; for Secretary, none; for Treasurer, Jim Kiniry KE7JIM; for Activities Manager, none; and for Trustees #2 and #4, Phillip Pia K7PIA and Ivy Nelson-Groves WA7IVY.

Alligator Award: Steve Marth WB7AAV retains the award.

Good of the Order:

- Chris Rose AE7XQ: There was a successful go-kit class held recently by Pierce County (District 5) ARES.

- Peter Glaskowsky K4PNG: This year's [MicroHams Digital Conference](#) does not conflict with the Mike and Key Election Meeting this year; it will be taking place on Saturday, March 24th at the Microsoft campus in Redmond.

- George Thornton AE7G: If you have an interest in being a part of the volunteer communications team for the [Ramrod](#) bike race in July, please let me know as soon as possible, so that we can start planning early. [Communications Academy](#) is coming up in April.

Closing:

The next Mike & Key General Membership meeting is on the third Saturday of the month - February 17th at 10:00 am at the Salvation Army Building in Renton.

Michelle Cross WB7AYU made a motion to close the meeting and was seconded by Scott Robinson AG7T; the motion passed. The meeting was adjourned at 11:08 am.

Guests: 9 Members: 66 ARRL Members: 56
Attested: Phillip E. Pia, K7PIA - Secretary

Mike and Key ARC Board Meeting Tuesday, February 6th, 2018 at 7:15 pm Salvation Army Building, Renton, WA

Officers Present:

President Dave Smith KB7PSN, Vice President David Yarbrough WA7DY, Secretary Phillip Pia K7PIA, Treasurer Jim Kiniry KE7JIM, Activities Manager Jim Monson K7JGM (Absent: Radio Officer Hal Goodell N7NW)

Trustees Present:

No. 1 Steve Cook KD7IQL, No. 2 Steve Marth WB7AAV, No. 3 Tim Kane K7ANE, No. 4 Tom Helm WT7S, No. 5 Robin Carter WA7BRI

Visitors:

Michael Hansen KG7MX, Michelle Cross WB7AYU, Ivy Nelson-Groves WA7IVY, Daniel Stevens KL7WM

Opening:

The Chairman of the Board Tim Kane K7ANE called the meeting to order at 7:15 pm, with a quorum being present. Steve Cook KD7IQL moved to approve the published minutes of the last Board Meeting, with the following amendment: that the President is authorized by the Board to sign and submit the 501(c)(3) application to the IRS (instead of merely reviewing it). Jim Monson K7JGM seconded; the motion passed.

Officer Reports:

Chairman of the Board - Tim Kane K7ANE: Nothing to report.

President - Dave Smith KB7PSN: Hal Goodell N7NW will not be here tonight; he does report (via the President) that the next Flea Market meeting will be next Tuesday night at the Dinkelman house.

Vice President - David Yarbrough WA7DY: Four membership applications were submitted for consideration by the Board - Daryl Wheeler N7DFW of Kent, Belinda Lawson K17ANY of Sammamish, Greg Truchot K17ETS of Covington, and Laurent Lathieyre K17SUE of Mercer Island. The Board approved the applications, and have recommended them to the Membership for final approval at a following General Meeting.

Secretary - Phillip Pia K7PIA: The correction to the last Board Meeting minutes is duly noted.

Treasurer - Jim Kiniry KE7JIM: The latest deposit to the Puyallup Fairgrounds was made on February 1st. The insurance form for the equipment trailer was received, with the mailing and physical addresses updated to reflect the registration. The books are in order.

Activities Manager - Jim Monson K7JGM: A Flea Market primer will be the program at the upcoming General Meeting.

Radio Officer - Hal Goodell N7NW: Not present.

Editor Reports:

Relay Editor - Mike Dinkelman N7WA: Articles are due Friday.

Website: Dave Smith KB7PSN reported that an updated roster has been posted.

Committee Reports:

Education & Training - Robin Carter WA7BRI: Deferred to Daniel Stevens KL7WM.

- Daniel Stevens KL7WM: The following report was provided - "2018 is starting off right, with the January class passing 100%, 16 of 16. One went to General and there was a walk-in Extra. The February Ballard class will finish on Saturday, February 10, 2018. There will be a March Licensing Class in Federal Way, and April General and Technician classes in Ballard, and a Technician class in May in Issaquah. Our area is blessed to have great ham opportunities. March 10, 2018 is the Mike and Key Flea Market. March 24, 2018 is the MicroHams Digital Conference. April 14 and 15, 2018 is Comm Academy, and Sea-Pac is on June 1-3, 2018."

Membership - Tom Helm WT7S: There was a committee meeting at the Renton Library after the last General

Meeting, where the main topic of discussion was the upcoming Banquet in April.

Technical - Steve Marth WB7AAV: The Technical Net continues on Wednesday evenings at 7:30pm on the Club 2m repeater. The MicroHams Digital Conference will be on Saturday, March 24th at Building 30 on the Redmond Microsoft campus; it is currently sold out.

Public Service - Tim Kane K7ANE: The 2018 booklet will be coming out soon.

Facilities - Steve Cook KD7IQL: It was reported that he tried to talk or meet with the Salvation Army about the rental agreement, with little to no success. The regular quarterly donation has been made in the meantime.

Field Day - Ivy WA7IVY: A copy of the Club's insurance policy is needed for completing the permitting process for the bluff and beach; the Treasurer will provide a copy. A couple of folks have requested drone permits as well. The Wagon Wheel and Barracks have been reserved, and do not require permits. The May program will be all about Field Day. The first Saturday in May will be a trailer work party.

Flea Market - Dave Smith KB7PSN reported that the next meeting will be next Tuesday evening at the Dinkelman house.

Old Business:

- A draft of the the website's front page purpose statement - in that the Club is a educational, charitable, and scientific organization worthy of 501(c)(3) non-profit recognition by the IRS - was presented by Tim Kane K7ANE (based upon the work of David Yarbrough WA7DY), and was thoroughly discussed by the Board. A final proposal will be presented by the March Board Meeting.

New Business:

- Dave Smith KB7PSN: After some discussion, it was agreed to limit membership on the board reflector to current and past board members, and others as needed/requested with the approval of the administrator.

- It was mentioned that the Club should consider moving our group reflectors to Groups.io due to issues with Yahoo Groups; this will be further researched by the next Board Meeting.

Good of the Order:

- Michelle Cross WB7AYU inquired about the ARRL Special Service Club application. Dave Smith KB7PSN mentioned that the 501(c)(3) application is the first priority, with the Special Service Club application submission following shortly after.

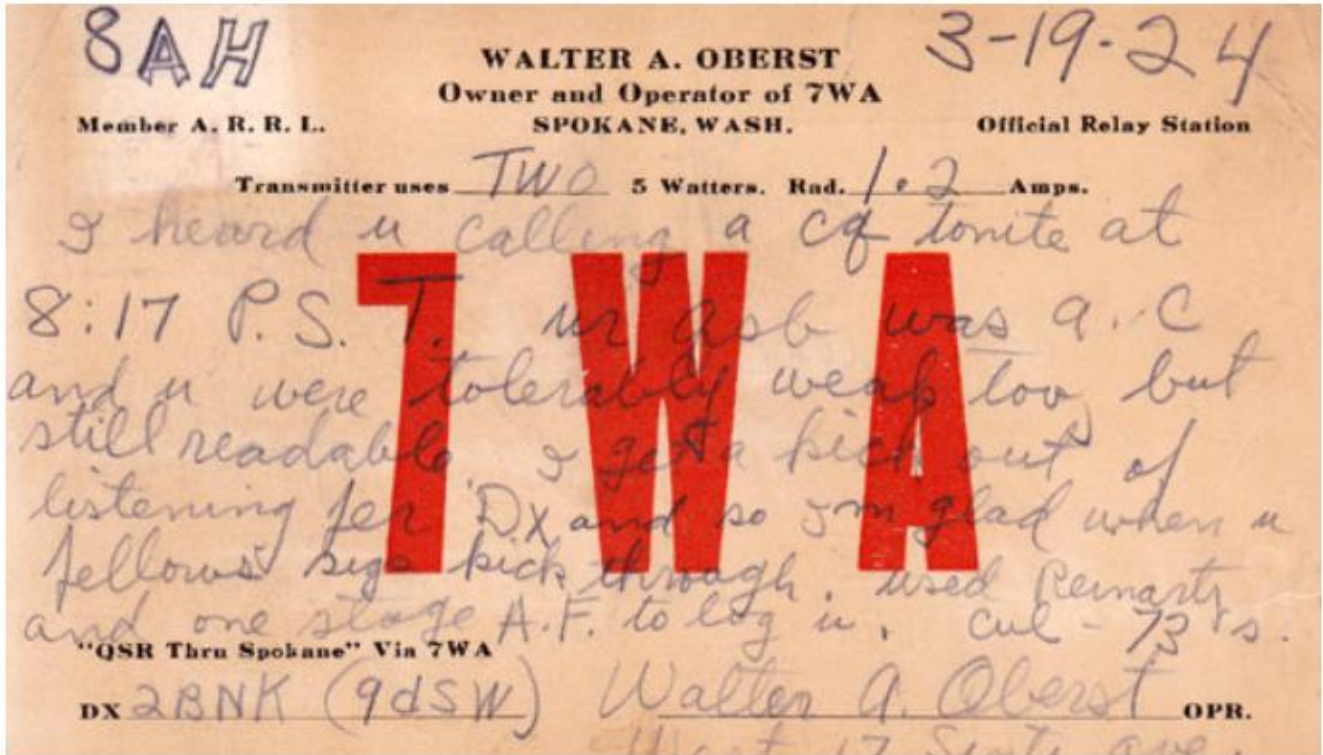
Closing:

The next Board Meeting will be on Tuesday, March 6th at 7:15 pm at the Salvation Army Building in Renton.

Jim Kiniry KE7JIM moved to adjourn the meeting, with Jim Monson K7JGM seconding; the motion passed.

There being no further business, the Chairman adjourned the meeting at 8:12 pm.

Attested: Phillip E. Pia, K7PIA - Secretary.



7WA 1924 Spokane, Washington Operator: Walter A. Oberst

From the estate of 8AH Courtesy of WA3FET and K7SS

I have posted QSL's from my "lineage" before. No, he isn't related to me but he is the original 7WA. All of us, K7WA, W7WA, and N7WA have taken an interest in Walter's cards. This one, you can actually read! For those who have a hard time, here's what he says.

I heard u call a CQ tonite at 8:17 PST. ur asb (?) was AC and you were tolerably weak too but still readable. I get a kick out of listening for DX and so I'm glad when u Fellows sigs kick through. Used Reinartz and one stage AF to log in. CUL 73

Think about it. He was sending a QSL to 8AH simply because he barely heard the guy. He didn't work him. (8AH was in Michigan) In this era, messages were relayed from one end of the country to the other using many stations. Not sure what the ASB was, I even tried googling it. From the context, it sounds like a type of signal report. His receiver used a [Reinartz oscillator](#) invented in the early 20's. His receiver uses one audio stage (AF) and could have been home-brew. At the bottom left he brags about either hearing or working DX stations 2BNK (NY) and 9DSW (MN). I expect it was hearing only. He had two 5 watters for transmission - it would be interesting to know what that actually was. In this time frame, Ham radio operators were operating on 200M or about 1.5Mhz (the top end of today's AM broadcast band). [Walter was listed](#) in the Dept of Commerce (there was no FCC) 1924 Amateur Radio List which is a free download from Google Books (900+ PDF pages).

Bouvet DXpedition

submitted by Michael, N7WA

As the ship lay at anchor off Bouvet a week ago, waiting for decent weather, the Captain aborted the expedition. One of the two engines developed trouble. *You don't want to be in the subarctic with only one engine.* Years of planning and work to no end. They may try again.

<https://www.bouvetdx.org/news-and-updates/>

Training Report

submitted by Daniel, KL7WM

2018 is starting off right, with the January class passing 100%, 16 of 16. One went to General and there was a walk-in Extra.

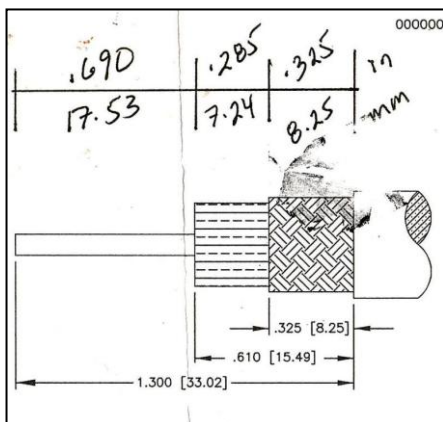
The February Ballard class will finish on Saturday, February 10, 2018. There will be a March Licensing Class in Federal Way, and April General and Technician classes in Ballard, and a Technician class in May in Issaquah.

Our area is blessed to have great ham opportunities. March 10, 2018 is the Mike and Key Flea Market. March 24, 2018 is the MicroHAMS Digital Conference. April 14 and 15, 2018 is CommAcademy. And SeaPac is on June 1-3, 2018. Take advantage of these advance training opportunities.

More on Crimping

submitted by Michael, N7WA

Some have asked about the measurements required for prepping RG8 type coax for crimping. I have extracted the following from the specifications of the RFU-507-ST (crimp style PL-259). I am going to send the entire scan as a PDF to the Web Masters but this is the important stuff. Personally, I don't worry much about the inner conductor length. I usually make it too long but it just gets chopped off after I solder the tip anyway.



Hamfest Season

We are reaching Hamfest season (duh!). Time to make plans. The following information is provided courtesy of Lynn N7CFO's Web Site:

Pacific Northwest Hamfairs & Events

February 17. Salem Hamfair & Computer/Electronics Swapmeet. Rickreall, OR at the Polk County Fairgrounds <http://www.w7sra.com>.

March 10. Mike & Key 36th Electronics Show & Fleamarket. Puyallup fairgrounds exhibition hall, Puyallup, WA. <http://www.mikeandkey.org/flea.htm>

March 24. MicroHams Digital Conference, Redmond, WA. [Conference is sold out] <http://www.microhams.com/mhdc/>

April 7. Yakima Hamfest. Yakima, Washington. <http://yakimaamateurradioclub.com/yakima-hamfest/>

April 7. Swap Meet & Emergency Communications Equipment Exhibition. Richmond, BC. https://secure.eton.ca/rac/events/detail.php?event_ID=1926

April 14 & 15. Communications Academy. South Seattle Community College, Seattle, WA. <http://commacademy.org/>

April 20-22. Idaho State Convention. Boise, ID. <http://www.idahostateconvention.com/>

May 5. Electronics, Ham Radio and Experimenters Swap Meet, Kennewick, WA. Contact: DANCAR68@AOL.COM



Come work the Fleamarket!!

Calendar FEBRUARY/MARCH 2018

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
11 (February) 220 Repeater Net 3:00pm 224.120 PL103.5	12	13 Fleamarket Meeting 7:00 Dinkelman household	14 Mike & Key Technical Net 7:30pm 146.82 	15	16 ARRL Inter. DX Contest, CW	17 10:00-M&K Club Mtg 12:30- M&K Ham Radio Exams Contact: Scott— ag7t@arrl.net [Salvation Army- Renton] Technician Class, Ballard See Daniel KL7WM ARRL Inter. DX Contest, CW
18 220 Repeater Net 3:00pm 224.120 PL103.5 ARRL Inter. DX Contest, CW	19	20	21 Mike & Key Technical Net 7:30pm 146.82	22	23 CQ 160-Meter Contest, SSB	24 CQ 160-Meter Contest, SSB North American QSO Party, RTTY
25 220 Repeater Net 3:00pm 224.120 PL103.5	26	27	28 Mike & Key Technical Net 7:30pm 146.82	1(March)	2	3
4 220 Repeater Net 3:00pm 224.120 PL103.5	5	6 Board Meeting 7:15PM Salvation Army	7 Mike & Key Technical Net 7:30pm 146.82	8	9 Fleamarket Setup	10 Mike & Key Fleamarket
11 220 Repeater Net 3:00pm 224.120 PL103.5 Newsletter Articles Due	12	13	14 Mike & Key Technical Net 7:30pm 146.82	15	16	17 10:00-M&K Club Mtg and Elections 12:30- M&K Ham Radio Exams Contact: Scott— ag7t@arrl.net [Salvation Army- Renton]