

K7LED Relay

Volume 47, Issue 2

Mike & Key Amateur Radio Club – Seattle

February 2019

From the President's Desk

By David Smith KB7PSN

This month, the Groundhog didn't see its shadow – we're going to have an early spring. However, before spring occurs, the Club will be actively participating in the following events:

- The 38th Annual Electronics Show & Swap Meet down at the Pavilion Exhibition Hall of the Washington State Fairgrounds in Puyallup, WA on Saturday, March 9. This year, the Main Garden Chinese Restaurant is closed, so the volunteers who helped out will be at a new location for the post Swap Meet dinner. The day after this event, we change to Daylight Savings Time again, setting out clock ahead one hour.
- A celebration of member accomplishments over the past year at our annual Awards Banquet down at the Champions Lounge at the Emerald Downs Racetrack in Auburn, WA on Saturday, April 6. There will also be a program memorializing Silent Keys in the Club.

As always, the Club appreciates any pictures taken at these events – many of the pictures received are linked to at our Club web site, mikeandkey.org.

Additional information for these events can be found later on in this newsletter.

At the Club general meetings in both February and March, nominations for next year's Board of Directors will be held. Then, at the March general meeting, elections will be done for this 2019 Board -- President, Vice President, Secretary, Treasurer, Activity Manager, and three Trustee positions will be voted in for the new year. Please consider being part of this Board.

The Club participates in the Fred Meyer Community Rewards Program. As mentioned in previous newsletters, to participate, one must first have a Fred Meyer Rewards

Card. With this, individuals can go to the fredmeyer.com web site to tie their assigned Rewards Card to the "Mike and Key Amateur Radio Club" participating 501c3 organization. At the end of each quarter, Fred Meyer, then sends qualifying funds from this program off to the Club Treasurer.

Hope to see you at one of these events.

Celebrate our February Members

By Jim Kiniry KE7JIM, Treasurer

As of February 2019, 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!

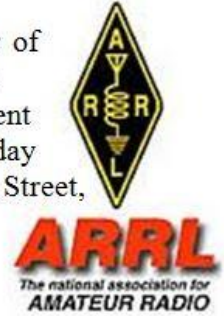
Each of you makes us who we are.

Name	Callsign	Num Years
Hal Goodell *	N7NW	45 Years
Dean Holtan *	N7XS	29 Years
Sandra Dunkel *	K7OZY	28 Years
Richard Danielson *	K7RIC	25 Years
Adrian Roth	KB7BVL	23 Years
Paul Roth	N7DOH	23 Years
Brendan Burget	KD7IKV	19 Years
Curtis Hanner	N7MWC	19 Years
Dawn Hanner	N7VWH	19 Years
Chuck Richardson	N7LMT	14 Years
Randy Stagers	K9VD	9 Years
John Swafford, II	W7MEU	9 Years
Jim Monson	K7JGM	6 Years
James Wraalstad	WQ7H	6 Years
Dan Aalberg	KG7DAB	5 Years
Mike Blaszcak	K7ZCZ	2 Years
Alfred Mannings	K17IXS	2 Years
Koda Mondragon	K17IXR	2 Years
Terry Hissong	KG7PO	1 Year
Daryl Wheeler	N7DFW	1 Year

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



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.



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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

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>

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Radio Officer	Hal Goodell	N7NW	n7nw.hal @ comcast.net	253-549-4178

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No. 3 – CoB	Tim Kane	K7ANE	k7ane@arrl.net	206-251-7467
No. 4 –	Jim Monson	K7JGM	jgmonson@earthlink.net	206-245-8485
No. 5 –	Robin Carter	WA7BRI	rjc@centurytel.net	253-858-2008

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Logo	Jim Aigner	N7MU	jimaigner @ comcast.net	253-630-2752
Club Library	'Toku' Okumura	AD7JA	ad7ja@msn.com	206-772-2450
Webmaster	Committee	K7LED	webmaster@mikeandkey.org	
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.

Training Report

Submitted by: Daniel Stevens KL7WM
Training Coordinator

A Tukwila Technician class has just been added to the training schedule.

There is a Technician class in Ballard with 32 students, that will finish on February 16, 2019. The test on February 2, 2019, has 13 candidates pass, 9 Technicians, 3 Generals and 1 Extra. That is a good start for the year. There were testees from Maple Valley through Everett and Bainbridge through Yakima.

We have 12 classes scheduled for 2019. Here are the classes through June.

Ballard,	Technician,	February 2 and 9, 2019
Tukwila	Technician	February 23 and March 2, 2019
Fox Island,	Technician/ General classes,	March 23 and 24, 2019
Ballard,	Technician/ General classes,	April 20 and 2, 2019
Issaquah,	Technician,	May 4 and 11, 2019
East Auburn,	Technician,	May 18 and 25, 2019
Olympia,	Technician,	June 8 and 15, 2019

The June class is for a Scout Troop and others in Olympia and Lacey area.

NEMCo is holding a Technician class in Kenmore starting February 19, 2019 and Mercer Island Radio Operators are holding a Technician class Starting on March 15, 2019.

The New General Question Pool is at NCVEC.org for review. It will replace the current question pool on July 1, 2019. With the Federal government fully open through February 15, 2019, we are planning to use Express Overnight Mail to get the test results to the ARRL VEC and to the FCC before another possible shutdown.

Club Resources

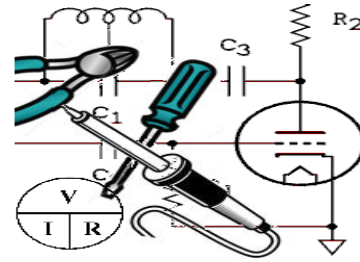
We've accepted a lot of new members into the Club over the past year so I thought it might be useful to mention a couple of our Club Resources.

1) We have a Club library. You may have seen this at the monthly meeting. Toku, AD7JA, our librarian has probably procured just about every modern Ham Radio publication plus a number of older ones. We also have a couple MFJ antenna analyzers available to be borrowed - including a UHF/VHF device. You don't have to wait for the monthly meeting. Toku has the library at his shop (Skyway Radio & TV Service) and you can stop by and get a loan from there too. See <http://www.skywaytv.net/> for hours, phone, and address.

2) We have a Club Email List (Reflector). Frequently, events and happenings that occur between publication of

the Relay are announced here. You can also ask questions. You must request to join so only vetted persons are allowed in. I shut members down pretty quickly if someone gets their email hacked. Can't say there has been much spam. The only downside is that it is a Yahoo Group. I am hopeful we can migrate to something else one of these days. Signup at <http://groups.yahoo.com/groups/mkarc>.

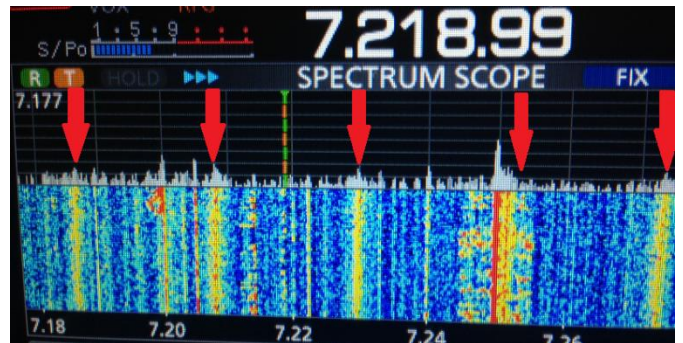
Around The Shack



Submitted by: Dan, KG7DAB

You light up my life! But caused so much RFI.

For months now, I've had this odd RFI on the 40M band. Every 22KHz was this "carrier" looking signal along with just a little extra noise in-between, shown here in the figure below.



Discussions on the Wednesday Night Tech Net were helpful and other Ham related research helped, but you know what they say? "Ask a hundred Ham's a question and get 101 different answers."

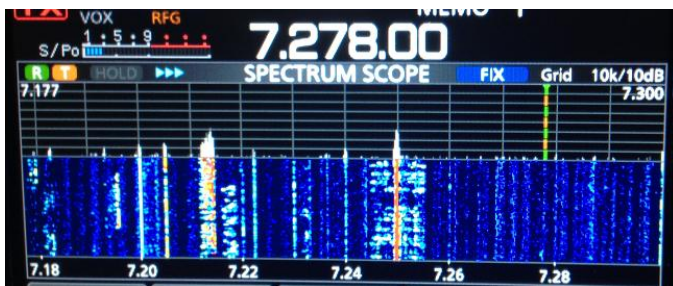
As you probably know, I seem to be a magnet for RFI. How many articles have I written now? Grow lights, kitchen lights, mag loop antenna for detection and now this? I need to move to a hill in the country. But until then, I will just endure and keep finding them and getting rid of them when I can.

This particular RFI problem was not super obvious to locate. Especially in the summer when the days are long. Once Daylight Savings time ended, that's when I really started to notice the problem and try and find it. After I found the problem, it was a big slap on the forehead with the accompanying DOH!

As I sat in my shack one night, I noticed the street light out my window. Recalling one of the comments from the Tech Net regarding street lights being a potential problem, I decided to pay attention to it.

Of course I had to wait until the weekend because by the time I get home from work, it's dark outside and the street light is already on.

Saturday evening rolls around and dusk is approaching. Dusk is also known as the Grey Line, for you Ham nerds out there. I turn on the IC-7300 and switch to 40 meters. Typical noise floor of S3 to S5 as seen here;



It's getting darker and I diligently watch the street light and waterfall. Finally the street light turns on and the noise starts as seen in the first pic. Gotcha! I kept track of this over the rest of the weekend and into the week. During the week, I could watch the light and noise turn off in the mornings. This verified that it was THAT street light as the other street lights close to me turn on and off at slightly different times.

So, I decided to call Seattle City Light and report it. Who knows, maybe they'll do something about it. Worth a try anyway. I go get the pole number and give them a jingle. The lady was very nice. I tell her about the RFI (had to give a tiny explanation what RFI was) and give her all the information she required. I also mention that the RFI is a violation of FCC Part 15 and 97 and that I am an Amateur Radio operator. I get a few "uh-ha", I see..." and "ok's" as I talk. We conclude our conversation and she mentions that she will get this reported to the appropriate people.

I decided that I was not going to hold my breath for this. However, to my surprise, just a few hours later she called me back! "I've escalated this issue to my manager and we'll get this looked at as soon as possible." I managed an astonished thank you.

But alas, my RFI woes continued because not two days later, Typhoon Seattle ripped through the region and knocked out power to 350,000+ customers. I had this sinking feeling that I was pushed down the priority list a couple of notches.

The aftermath was cleaned up a couple of weeks later and I figure I'm a lost cause when my phone rings. It's my favorite lady from Seattle City Light!

She gave me a ticket number and said someone will be out to change the light within two weeks. Again, I managed an astonished thank you. The very next day, the crew chief called me and said they were at the pole. We talked for a little and he assured me they were going to change the light with a 24W LED.

I couldn't wait to get home from work and for dark to approach. By the time I got home, it was dark, but that didn't matter. On goes the rig and straight to 40 meters. "It's Gone!!" I'll be darned, it worked.

It is definitely nice those 22Khz RFI "thingies" are gone. Now, when the grey line comes and the street light turns on, it just lights up my life and not my waterfall.

My hat's off to Seattle City Light for not dropping the ball with me, to their efforts and to the reasonably speedy repair, in spite of the massive wind storm damage.

Silent Key - Frank Henshaw, K7VMG

By David Smith KB7PSN

Back when I was working at Boeing, I would attend their Boeing Employee Amateur Radio club meetings. At the beginning of each Club meeting, we would introduce ourselves. We were either Employees, Vendors, Retirees (hibernating BEAR), or Guests. When it would come to Frank, he would identify first as a Vendor. Then, after retiring, he would be a Retired Vendor.

As I got more involved with the Mike & Key, Frank became more of a presence in the various activities we would get involved in. One year, he even ran, and won, as the Club Vice President. During many Club meeting introductions, he would introduce himself as K - 7 - Vicious - Mean - & Grouchy; although, he wasn't all that vicious! His personality showed well as he enjoyed being part of the Club. In recognition of his many contributions to the club, he became recipient of the Ken Jackson Award in 2002.

During a few introductory portions of the regular Club meeting, I recall sitting at the table with more than one

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Frank -- Frank (Carter) K7VMG, Frank (Vyborny) KF7TX, Frank (Henshaw) K7VMG, and Frank (Kreiger) KA7QHG. It was Frank, Frank, Frank, and Frank! And, not wanting to break the pattern, I suggested that we could "all be frank," but then introduced myself as Dave.

Frank would hang around with Darla (Harris) KC7SIT. They both helped out considerably at many of our Club Swap Meets in Puyallup, always with a smile. And, once every two years, I would visit with both of them at several of their Sumner, Bonney Lake, and Puyallup favorite morning restaurants for breakfast. A great opportunity to share stories of what has happened since last visit.

So long, dear friend! 73 DE KB7PSN, Dave

Annual Awards Banquet M&K Membership Committee Report By Kathy Martin KB7QMO



The Membership Committee is hosting this year's *Annual Awards Banquet*. We hope that you will join us in celebrating this year's accomplishments. This year the banquet will be held on :

Saturday, April 6th at 6:00pm
Emerald Downs
2300 Ron Crocket Dr.
Auburn, WA 98001

Cost is \$15 per person. Tickets will be available at the February and March General Membership meetings. Everyone must be 21+ to attend this year. We are limited to 60 and have a minimum of 50. We are working on Hors d'oeuvres. This will be a buffet style dinner. You will have three entrée choices. Please be prepared to pay for your meal at the time you make the reservation. We will accept checks made out to M&K ARC, cash, or credit cards (there will be an additional fee for this).

Menu

All of the banquet entrees come with garlic mashed potatoes, seasoned buttered vegetables, fresh fruit medley, Arcadian greens with white cheddar, spiced walnuts and dried cranberries with choice of dressing, and assorted bakery rolls & butter.

Entrees (Choose one per person)

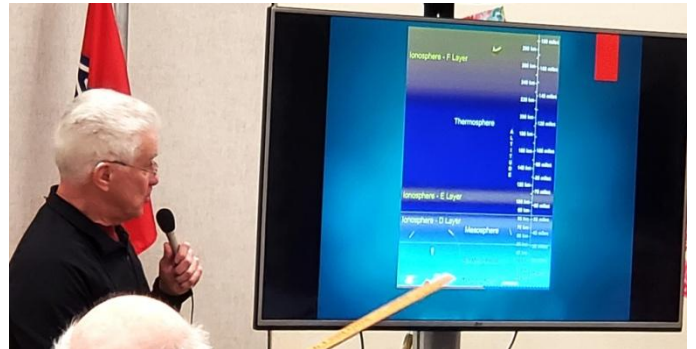
Hand-Carved New York Striploin with Horseradish Cream
Chicken Marsala
Chef's Choice Vegetarian Meal (no mushrooms)

We would encourage member to send an email to mikeandkeymembers@gmail.com with comments or suggestions on how the club can do things better.

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January Club Meeting



Robin WA7BRI explaining about NVIS antennas

Elections

submitted by Michael N7WA

Over 30 years ago I joined this Club. At the time, it was a personal risk for me because deep down inside I am an introvert. Joining the Club was a way of breaking through that. But, I had to do more than just join. (We have a lot of people who join... never to be heard from again.) Three months after I joined, there was an opening on the Board of Trustees. Having no idea what I was getting myself into, I volunteered for the remaining period of that Trustee position. A year later, maybe it was two, I put myself up for Activity Manager. Except for a few years when I went back to school, I think I have been fully involved ever since, either on the Board or in ancillary positions such as newsletter or fleamarket chairs.

I can name a number of Club Members (just not all introverts) with similar paths who became active very early in membership and are still plugging away in leadership positions. But this article is not about me or them. Instead, this article is a plea for some of our newer members to consider getting a bit more involved in running the Club.

You don't have to be hip-deep in radio or the history of the Club to help run it. What we need is new blood, diversity, and ideas. We've been lucky getting that so far

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and it's one of the reasons we have remained one of the more active Radio Clubs in the region. Yet I see burnout coming among our officers and activity coordinators.

Yes, many of us have busy lives and cannot devote many hours to running a Club. Some of us have family or jobs that are demanding of time. This I understand. However, the good news is that there really isn't that much time required (unless you want to be Treasurer!). Usually a couple hours a month.

So please don't consider *nominating* someone else for office when nominations are opened at the February and March Club meetings. Instead, consider *volunteering* to stand for election yourself. Don't be one of those names I see each month in the *Relay* celebrating another anniversary... and I have no idea who they are.

New Club Members

Welcome to these new Club members who were voted in during the January Club meeting.



Simeon Baldwin
KJ7CKL

Margret Truax
KJ7DIO



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Flea Market Countdown *submitted by Michael, N7WA*

As I write this, we are 4 weeks from the Mike & Key Electronics Show and Swap Meet in Puyallup. Table sales are coming in daily; the first floor is long sold out and the second floor is about 3/4's full. Hopefully, the white stuff outside will be long gone by then.



What we need now are WORKERS.

For Friday, the biggest needs are in the Country Store and Security. Both of these are easy jobs physically (though security involves walking). However, those are the jobs needed after 2PM when we open to our vendors. Between 9AM and 2PM, we still have a need for many people to do Setup which include putting up 300 tables and 600 chairs. Note... we will feed you lunch during Setup.

On Saturday, the biggest needs are ticket sellers (one more each shift), ticket takers, Country store, and hospitality. Then, there is load-out and teardown which requires us to get all those tables put away and the vendors out the door in about 3 hours. ALL HANDS ON DECK!

You can volunteer at <https://mkarc.ivolunteer.com/>. We also allow friends and relatives to participate so have them sign up too.

If you are new to the Club, I recommend being at the February meeting for the program. We will be discussing the logistics of the Swap Meet in detail. If you can't make the meeting, please read the Flea market primer elsewhere in this Relay (though it won't be half as much fun as watching me stumble through the program).

What's COOL in ARRL Publications?

submitted by Michael, N7WA

We're an ARRL Club.... sorry, we are an ARRL Special Services Club! Many of us belong to the League and get various League publications. Foremost, of course, is QST and a close runner up, for me personally, is the National Contest Journal (NCJ). Others may subscribe to QEX which directed towards the experimenter and builder and way beyond me most of the time.

As I read my subscriptions, I frequently think *"this is cool, I wonder if anybody else has seen this?"* So I thought I might mention interesting items from the past month. Maybe if you're not an ARRL member, it might be enough to get you interested. And if you have acted upon any of these article or others, let the rest of us know it

February 2019 QST:

Frankly, not much hit me as super interesting like last month but here a few items you might find of general interest.

Review of the Flex 6400M - if you are an old timer, you probably remember when *radios in a computer* first showed up. I remember looking at them in Dayton 20 (?) years ago. Now, they don't even look like a computer, checkout the review of the Flex 6400M starting at page 47.

Crimping Coax - Remember my program last Spring about crimping coax connectors? Guess the ARRL heard about it too. Everything I taught you is starting on page 44.

Sprints - yeah, interesting to me but probably not to you :>) page 75.

Mesh Tunnel - is this the future of public service? Maybe for Bigfoot or Ramrod? Amateur Radio Emergency Data Network (AREDN) See page 79.

Changes in ARRL Leadership - after last year's big dustup within the ARRL Board, there's been a fair turnover in Division Leadership as described starting at page 81.



Truly a thing of beauty when you add snow...

For Sale (from various estates)

(all tested as working. I will hold all funds until you're satisfied with purchase)

Icom IC-746 (not Pro) HF/VHF Transceiver \$350

Two Astron RS-7A power supplies, 7amps, good for vhf/uhf mobile rigs \$40 for the nice looking one, \$25 for the rough looking one

Standard C56A 2M handheld, works, uses AA batteries \$25
Kenwood TH75A 2M/440 Handheld, needs new battery, \$35
Icom IC-27A, 2M FM mobile rig, rough but working, \$40
Icom IC-47A 440 FM mobile rig, rough but working, \$40

Swap Meet Primer

What is this Swap Meet thing-a-ma-gig coming up? For those that are new to the Club, this article is an attempt to provide relief from the blank stares I get when I ask if someone wants to sign up and work the event. It describes what the Swap Meet is, its importance to the Club, the level of support required, and the job categories involved.

What is it?

The Mike & Key Swap Meet is a one-day Hamfest held on a Saturday during the first part of March of each year. (For those who care about such things, it's the 10th full weekend of the year not counting weekends that includes New Year's Day.) This year, that will be March 9th. It's held at the Pavilion Exhibition Building on the Washington State Fairgrounds in Puyallup. This is a two story building with 40,000 sq. feet of exhibition space. The event requires setting up over 300 tables and accommodating 600 sellers and their helpers. We typically draw 1700-1900 people through the door. While this is a one-day event for the public; for the Club, it requires an additional day of set-up on Friday. So, for many of us, it's a two day event. This Swap Meet will be our 38th event. After so many years, it's a tradition in the Pacific Northwest and arguably the largest Hamfest in the region... certainly in Washington State. We draw vendors from the entire West Coast and buyers from Canada, Washington, Oregon, and Idaho. (Ok, we even got a guy coming from Texas this year.)

Why do it?

Well, it's a heck of a lot of fun but primarily, it's a fundraiser for the Club's activities. Because of this event, we can keep the dues at a ridiculously low rate of \$12. It's been calculated that if we lost the Swap Meet and had to rely on dues alone that we would need to have dues in the \$60-70 range to maintain current levels. More likely, we would just have to de-fund a number of activities or charge members extra to participate. We also use the funds to help produce our yearly *Special Events and Information Guide* Booklet given away freely at the event and at the yearly Communications Academy event.

Club Support

Because all of our members benefit directly, it's really a responsibility of our members to participate in making this event happen. It takes a minimum of 120 people to run this event smoothly. We accept help from non-members too so if you can talk your spouse into it or have some reliable friends, we would be happy to include them in the worker community. All workers receive a badge that entitles them to be on the premises during setup hours just like the sellers. That gives you a head start on finding the best deals (a very nice perk if you've ever fought the crowds). We have a number of different

areas that require workers and they support all types of physical limitations. No area is any more important than another though some may require some expertise or on-the-job training. Members may sign up using an on-line sign up tool (<http://mkarc.ivolunteer.com>), sending email to n7wa@arrl.net, or catching me at a Club meeting. The on-line tool includes worker descriptions. Members are encouraged to work in several areas throughout the event.

Security - probably the simplest of worker assignments, it's important none-the-less. Your job depends on where you are assigned. However, it usually involves walking the aisles watching for people lifting covers off of tables and making sure everyone has a badge. From 8-9AM on Saturday, we need a large contingent of security at the entrance doors prior to letting the crowd in. We do hire two professional guards to provide security out at the ticket booths and to handle issues that might require their level of help. Security is active during setup hours (2PM-7:30PM Friday, 5:30-AM-8:30AM Saturday). Physically, you should be able to stand and/or walk for extended periods of time. We also have positions sitting down in front of the loading doors watching for badges.

Tickets – working the ticket booths does requires some ability at handling money (making change) and the ability to work under pressure. There will usually be two of you in a booth. We sell tickets from 8AM – 2PM Saturday. Because you are handling Club funds, this position is limited to Club members and their spouses. There are two other ticket related jobs – taking tickets and hand stamping. Those jobs are open to all but are outdoors so be prepared for the weather of the day.

Announcing – a willingness to interface with the public is good here. You'll be answering questions and providing limited announcements. Announcing is also where the talk-in station is located and the door prizes are drawn. No physical requirements here, you can sit indoors the entire time. Announcing is active from 2PM-7PM Friday and 5:30AM-3PM on Saturday.

Country Store – this is our consignment area. People bring in items here when they don't have enough to fill their own table. (Workers can place items in the Country Store too and sell them commission free.) A working knowledge of equipment is helpful in this area and you will be dealing with the public. The Country Store runs from 2PM-7PM Friday and 6:00AM-3PM on Saturday. No physical limitations.

Loading Dock – this area requires the most number of people. You need to be able to work in a team environment. There is some physical labor required here. We don't load people's equipment but we do move

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empty pallets by hand and full pallets using “jacks”. You are working mostly under cover outdoors. This job takes a bit of on-the-job training to learn the system but it's not difficult. You will be interfacing with our vendors and a good attitude is important as they can be cranky at times. The loading dock is active from 2PM-7:30PM Friday, 5:30-AM-8:30AM Saturday, and 3PM-6PM Saturday.

Registration/Traffic Control – Registration hands out vendor packets at the Gold Gate (walk-ins) and Orange Gates (drive-ins). All of the jobs require being outdoors in the weather and possibly standing for extended periods of time. (These are usually very special people but highly appreciated.) This area is active from 2PM-7:30PM Friday, 5:30-AM-8:30AM Saturday, and 3PM-6PM Saturday (loadout).

Setup – On Friday, from 9AM to 2PM, a large number of workers are needed to help setup the Pavilion. This mostly involves setting up 300+ tables and 400+ chairs. It's physical work but important. We work in pairs (mostly) to reduce the burden. Also, at this time, Announcing, Registration, and Country Store will be getting ready to open at 2PM. We do provide lunch at noon on Friday for our setup workers.

Teardown – often forgotten, we need just as many people to help teardown the tables starting at 3PM on Saturday as we did setting up on Friday. If you aren't involved in performing loading dock duties or traffic control, we need you to stay on and help teardown and cleanup. Yes, we are all tired but it needs to be done.

VE Examiners – If you have an interest in giving VE Exams and are qualified, contact Scott ag7t@arri.net For

Hospitality – We have our own Hospitality Suite for workers only. Michelle does a good job of laying on the feed bag but it really takes several people to get it setup and the food flowing. It's indoor work, and if you have an interest contact Michelle, WB7AYU michelln@oz.net.

Letting the Smoke Out

submitted by Michael, N7WA

This year, I decided to get back into SO2R (Single Op Two Radio) for the North American QSO Party. I used my Elecraft K3 base station and pulled in my KX3 mobile rig from the truck.

I did a fair amount of testing to determine that some of the combinations weren't as clean as I wanted (like getting into 20M with one radio when running on 40M with the other). This is normal and I have some band pass filters I made a number of years ago that I am pretty proud of. To make it quick and easy, for this test, I

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installed them out on the 2x6 switch outside. They did a great job during the contest.

A week later, a DXpedition came on line (Sierra Leone) that I wouldn't mind working.

I sat in front of the rig and tuned up the amplifier to about 1000 watts. The SWR meter started screaming at me. It does that when the SWR gets too high - it'll even cut off the amplifier. Huh? what's up. I check for the right antenna selections and tuned the amp again. More screaming.

That's when it hit me. My beautiful 40M bandpass filter - which was designed to handle 200 watts - was probably toast by now. I went outside and could smell the results when I got to the switch. Argghh!

Fortunately, I was able to determine the problem pretty quickly. One capacitor that was black and charred was a pretty good indicator. There were some others as well. I did have to order some replacements which was a pain (and expensive because they were high tolerance high voltage caps). However, once they were soldered in, all seems well.

Activities Manager's Report

submitted by Phillip Pia, K7PIA

Greetings from your Activities Manager, who hopes that you all stay well during the “Snow-mageddon.” Be safe and warm out there!

February's post-General Meeting program will feature a Swap Meet primer, which will be presented by event chairs Mike Dinkelman N7WA and Hal Goodell N7NW. If you are new or need a refresher on what makes the Swap Meet an annual success (including the many volunteer jobs that go into this effort), this is a discussion to stick around for. Next month is the annual Mike and Key Club elections. Your vote counts, so be sure to attend this meeting and help decide the future of our Club.

As for the Raffle... we had a decent January. The 2019 Raffle fund currently sits at \$123 after carrying over \$78 from last year, and adding \$45 to it last month (\$95 in tickets sold, minus \$50 for prize expenses).

The February monthly Raffle will feature great prizes, as always. All tickets sold during the monthly Raffles are also entered into the year-end drawing, so be sure to buy some tickets and contribute towards a fantastic year-end Grand Prize. If you have any donations you would like to donate to any future monthly Raffles (to help us sell tickets, decrease monthly prize expenses, and save up for that wonderful Grand Prize), be sure to email me, or bring it to any General Meeting. Thank you and 73!

February 2019

K7LED Relay

Mike & Key ARC General Meeting Saturday, January 19, 2019 at 10:00 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. The question of the day: How did you survive in the power outages?

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: Call for nominations from members. Elections will be held at the March meeting. At this time, for Pres: Robert KD7WNV; Vice P; Phil K7PIA; Treas; Jim KE7JIM; Sec; Michelle WB7AYU; Act. Mgr (open); Trustees pos. 1,3,&5: Steve KD7IQL. All nominated positions remain open

Secretary - Michelle Cross WB7AYU: There has been no correspondence to the Secretary office this month.

Treasurer - Jim Kiniry KE7JIM: The annual audit has been completed. Report on file. Insurance forms have been filed.

Activity Manager - Phillip Pia K7PIA: Program today by Robin Carter WA7BRI on Near -Vertical- Incident - Skywave (NVIS) : Using HF antennas for the coverage you need.

Vice President - David Yarbrough WA7DY: A quorum is present. 51 Members and 12 Guests with 42 ARRL members in attendance. Call for motion to approve previous minutes. Minutes: Christopher Wagner K7CMV moved to accept the minutes as published in the Relay; Tim K7ANE seconded the motion. The motion passed.

- New Membership: 2 applicants : Simeon Baldwin KJ7CKL and Margret Truax (no call) were introduced and unanimously voted to full membership.

Chairman of the Board - Tim Kane K7ANE: Need more people to step up to leadership roles in the club. Let's help get newer members involved in activities.

Radio Officer - Hal Goodell N7NW: The new 224.12 repeater is working fine. Hal encourages members to take an afternoon hike to visit the site but be prepared for weather.

Editor Reports:

Relay Editor - Mike Dinkelman N7WA: appreciates the interesting articles, keep them coming.

Website Committee: up to date and new features added.

Committee Reports:

Membership - Ivy Nelson-Groves WA7IVY (liaison) / Kathy Martin KB7QMO: currently seeking out a new venue for the

annual awards banquet. Possible dates Mar.30th, Apr. 6th, or Apr13

Facilities and Publicity - Steve Cook KD7IQL (liaison): The Salvation Army Facility here has yet another new Captain. Trying to arrange a meeting.

Education and Training - Robin Carter WA7BRI (liaison): Classes coming up - see KL7WM schedules in this edition. In 2018 there were 299 candidates with 277 elements passed. Comm Academy is on Apr 12 and 14, 2019.

Public Service - Tim Kane K7ANE (liaison) / Robert Grinnell KD7WNV: New 2019 booklet 1s being prepared. Most advertisers are back on board.

Technical and Special Interest - Jim Monson K7JGM (liaison): Thanks to everyone who has been checking into our nets and adding to discussions.

VE Exams - Scott Robinson AG7T: A total of 12 different VE's gave exams after club meetings here in 2018. In Dec. There were 8 new licensees

Swap Meet - Hal Goodell N7NW/Mike Dinkelman N7WA: There are 240 hours of work needed. (120 2ea hour shifts). Please sign up. Lots of jobs!

Field Day - Ivy Nelson-Groves WA7IVY: Timeline cards are being passed out today.

Picnic - Hal Goodell N7NW: The same Renton location has been secured by deposit.

Old Business: None

New Business: Ivy WA7IVY motions to send The Washington State Governor documents for Field Day Proclamations. Second by Dave KB7PSN, motion passed.

Alligator Award: James WQ7H, current holder explains what is and how YOU can earn this special award.

Good of the Order: Nominations to remain open next 2 months. Check with your candidates first to see if willing to run.

Closing

The next Mike & Key General Membership meeting is on the third Saturday of the month - February 16, 2019 at 10:00 at the Salvation Army Building in Renton. The next Executive Board meeting will be on Tuesday, February, 5, 2019 at 19:15 at the same location.

Charlie K7PHZ made a motion to close the meeting and was seconded by Jim K7JGM; the motion passed.

President Smith then closed the meeting and the program began.

Guests: 12 Members:51 ARRL Members: 42

v/r Michelle Cross, WB7AYU - Secretary.

February / March 2019						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<p>10 Mike & Key 220 Net 8PM 224.12</p>	<p>11</p>	<p>12 Swap Meet Meeting 7:15 (may be postponed due to snow) Dinkelman House</p>	<p>13 Mike & Key Technical Net 7:30pm 146.82</p>	<p>14</p> 	<p>15</p>	<p>16 10:00-M&K Club Mtg [Salvation Army HQ - Renton] 12:30- Ham Radio ExamS Contact: Scott—ag7t@arrl.net <u>ARRL Inter. DX Contest, CW</u> <u>Salem Hamfair & Computer/Electronics Swapmeet</u></p>
<p>17 Mike & Key 220 Net 8PM 224.12 <u>ARRL Inter. DX Contest, CW</u></p>	<p>18 Presidents Day (Holiday)</p>	<p>19</p>	<p>20 Mike & Key Technical Net 7:30pm 146.82</p>	<p>21</p>	<p>22</p>	<p>23</p>
<p>24 Mike & Key 220 Net 8PM 224.12</p>	<p>25</p>	<p>26</p>	<p>27 Mike & Key Technical Net 7:30pm 146.82</p>	<p>28</p>	<p>1</p>	<p>2 <u>ARRL Inter. DX Contest, SSB</u></p>
<p>3 Mike & Key 220 Net 8PM 224.12 <u>ARRL Inter. DX Contest, SSB</u></p>	<p>4</p>	<p>5 Board Meeting 7:15 Salvation Army</p>	<p>6 Mike & Key Technical Net 7:30pm 146.82</p>	<p>7</p>	<p>8 <u>Swap Meet Puyallup All Day</u></p>	<p>9 <u>Swap Meet Puyallup All Day</u></p>
<p>10 Articles Due For Relay Mike & Key 220 Net 8PM 224.12</p>	<p>11</p>	<p>12</p>	<p>13 Mike & Key Technical Net 7:30pm 146.82</p>	<p>14</p>	<p>15</p>	<p>16 10:00-M&K Club Mtg [Salvation Army HQ - Renton] 12:30- Ham Radio ExamS Contact: Scott—ag7t@arrl.net</p>
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