

K7LED Relay

Volume 46, Issue 7

Mike & Key Amateur Radio Club – Seattle

July 2018

Summer Activities with the Club Happenings

By David Smith, President

What a wonderful time over at our annual Fort Flagler Field Day event. The sun cooperated and made an appearance on Saturday -- it was a nice 75 degree day. It was cloudy on Sunday. Attendees were battling well for points. One of the last things we did was reserve the Camp Wilson area of the park for next year's Field Day (June 21 - 22, 2019).

It is now July and Seafair events are in full swing. With the Milk Carton Derby at Green Lake, the Kent Cornucopia Days parade in Downtown Kent, the Des Moines Waterland Festival in Des Moines, Torchlight Parade in Downtown Seattle, plus others, each event is looking for volunteers to help make the event successful. To see the events coming up in July, including the contact person for helping out, please go to

<http://www.mikeandkey.org/publicservice.php>

This information also appears within the Annual Public Service pamphlet that the Club makes available each year at our Swap Meet in Puyallup.

And, finally the Club is still waiting to hear back from the IRS on our filing as a 501c3 charitable organization status.

Hope to see you soon!

Celebrate our July Members

By Jim Kiniry KE7JIM, Treasurer

As of July 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	Num Years
Jimmy Sutton *	K7NQ	43 Years
Hap King *	W7QCV	34 Years
Jim Maras *	WA7FMT	31 Years
Dick Vance *	K7NEX	29 Years
Sam Sullivan *	N7RHE	27 Years
David Lee	KC7FSR	23 Years
Larry Smith, Jr.	AB7FJ	22 Years
Robert Grinnell	KD7WNV	15 Years
Arlene Hand	KF7NDO	8 Years
Scott Castonguay	KC7UOC	7 Years
Monica Cook	KF7QLX	7 Years
Earl Palmer	N7EP	7 Years
Kjell Anderson	K7YAR	5 Years
Gustavo Merle	KG7LVG	4 Years
Geraldine Kellogg	K17EIV	2 Years
Jason Kellogg	W7JTK	2 Years
Thomas Redfern	W7EZT	2 Years

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



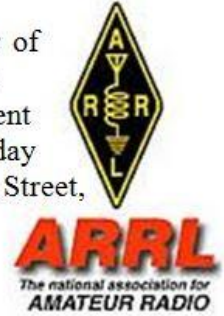
**New Member
Mark Holt
W7EAZ**



**New Member
Mike Ranta
WB7EPQ**



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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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.

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Activity Manager's Report - June 2018

submitted by Phillip Pia, K7PIA

Greetings from your Activities Manager! The fun of Field Day (and "Radio Camp" :-D) 2018 has come and gone, but some enjoyable events and interesting programs are still on tap for the rest of this year.

This month's presenter will be Mike Ritz W7VO from Scappoose, Oregon. Mike currently serves as president of the Willamette Valley DX Club, and is running for ARRL Northwestern Division Director. He will be presenting his electoral platform - that is, why he is running for the position of our leading voice and vote on the ARRL Board, including his positions on key ARRL issues - and will also be leading a discussion and Q&A session in regards to such. Be sure to bring any questions or discussion topics for Mike to this month's General Meeting, if you are interested in the electoral process of our national organization.

The annual Club picnic will be on August 18th at Gene Coulon Park in Renton, which will also be next month's General Meeting. More details and sign-ups will be at the meeting on the 21st.

The raffle this month will be full of the same ol' good stuff - as always - and any tickets sold are also entered in the year-end grand prize drawing in December. Donations are always appreciated, as they help to encourage interest in the monthly raffle. More interest in the monthly raffle allows us to sell more tickets, and thus have enough money at the end of the year to get a nice grand prize (the raffle is kinda lacking in the money department so far this year, so get out your dollars and buy a few tickets!). If you have any items lying around that you would like to donate to the raffle, be sure to bring it on by the next General Meeting, or send an email to activities@mikeandkey.org. Thanks a bunch!

Alaska Airlines Seafair Torchlight Parade Saturday, 28-July

By Gary Bryan KG7KU

Seafair Parade Marshal - DVM - Communications



A huge opportunity for Public Service is nearing, and planning is underway in support of the Seafair Torchlight Parade in

Seattle. The Seafair Parade Marshals welcome any Ham Radio operator who would want to assist us in support of this year's parade.



Your Ham Radio Communications skills are most appreciated and needed! Email to: hamsignup@seafairparademarshals.org.

Include: 'SeafairTorchlight,' Your Name & Call, Cell (contact) number, Your Group Affiliation (if any), and preferred assignment (if known).

Specific Assignments may vary, with Assembly and Route coverage being the primary focus areas. We are experimenting with having Ham Clubs work together in 'PODS' co-located within a range of strategic intersections, so if 2-3 Hams prefer to work as a Team, you can specify your Ham Radio Club or Organization affiliation within the Email.



We are looking forward to your participation!

Check out the [2018 Field Day pictures](https://photos.app.goo.gl/EBbviqfd9Byt8h5W7) at <https://photos.app.goo.gl/EBbviqfd9Byt8h5W7>

There are quite a few and you can add your own if you have a gmail account. If you didn't go to Field Day, you missed out on a spectacular Friday night Rainbow.

The Gator was pretty active too!

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“Encounter” the Bigfoot: The Most Challenging Public Service Event in Western Washington

*by Robert KD7WNV
Public Service Committee Chairman*



Bigfoot 200, August 10-14,
2018 (Friday – Tuesday)
Mt. St. Helens National
Monument & Gifford Pinchot
National Forest

Join an outstanding group of amateur radio operators, gathered from across Western Washington and Northern Oregon, in providing communications for a 200 mile ultra-endurance trail run.

Quick Facts

- Hams work in teams, providing communications to link 15 aid stations with Finish/HQ.
- Aid stations open and close on a staggered schedule, as runners move through the course. Later stations operate longer as runners spread out. Each station operates around the clock during its period of service.
- Assignments are available in durations of 1 to 5 days (2 days minimum is encouraged). Largest number of operators needed Friday PM through Monday AM.
- Station locations range from parking lots with paved road access and some facilities, to primitive/wilderness sites with secondary Forest Service gravel/dirt road access. Some sites can accommodate RVs. 4WD is not needed for any sites, but high clearance is recommended for a few.
- Radio operations: VHF/UHF phone over repeaters and simplex; HF/VHF digital (primarily Winlink) for stations with capability; 6 meters & HF/NVIS experimental.

Volunteering

- Operators are needed, regardless of personal radio equipment—having substantial field radio equipment and associated support gear is helpful, but not required. Assignments will match hams/assemble teams to form fully operational stations.

Contact: Robert Grinnell, KD7WNV @ arri.net
General Event Information: www.Bigfoot200.com

Mom's Field Day Message

submitted by Rita Danielson—KD7CNU

I've been thinking since Field Day about what I would write. Still don't have all my thoughts together, but here goes. Field Day 2018 is now in the history books. No idea how we did contact/points wise. I do know we had a good time.

We had a small turn out. We had only 15 staying in the B & B this year, way down from last year. It was comfortable and the fellowship was great. Staying up into the night getting to know new guests and catching up with returning guests. There were a few that we missed greatly. While peeling eggs for deviled eggs, I called for Rusty, Sally texted her and she said she heard me calling her. She knows me so well. You were missed, Rusty.

As is the case every year, we check into Camp Wilson, not sure what changes were made. This year was huge. The kitchen had been changed around which made for a much better flow. The ice maker was moved over to Camp Hoskins. Gary Bryan, KG7KU, to the rescue. He made an ice run to the QFC at Port Hadlock, coming back with 10 bags of ice. When we finally found out where the ice machine was moved to, Ric, K7RIC, took the ice chests over to Camp Hoskins Mess Hall and filled them up. We were told the machine will be moved to the ELC rec hall which will be available to all staying at Camps Wilson, Hoskins and Richmond.

Chuck, WA7EBH, and Joyce, N7JPW, brought their friends, new hams Ray and Linda to Ft Flagler this year. I'm so glad they did! Such a joy and blessing getting to know these two. Aaron Robinson, another new ham, drove one of the trailers over for his first field day ever. I think the only time he slowed down was when he sat down to eat. He did spend some time Friday night chatting with us so we could get to know each other.

I wasn't myself this year as I had just gotten some news about my health the Tuesday before Field Day. I have breast cancer, stage two. I'll be having surgery July 30. I'm calling it the Alien Eviction. Then about a month after that will start radiation therapy. Chemo is not indicated at this time. I serve a big wonderful God who is with me now and will be with me on this journey. I have no doubt about that. As many of you know, I have a strong faith and a great support group. I will get through this. I'm glad I was among friends Field Day weekend and was kept busy. Love you all. You have no idea how you helped get me through the weekend without coddling. I really appreciate that.

Now on to bigger and better things.
See you all on Saturday, July 21. 73/88

Radio Camp

By Jim, K7JGM

To quote David, WA7DY, “the first rule of Radio Camp is you do not talk about Radio Camp. The second rule of Radio Camp is you DO NOT talk about Radio Camp!” I am about to break both rules, but only this one time.... maybe...

During the Mike and Key Technical Net, the Wednesday before Field Day, someone asked what “Radio Camp” was. I will do my best to explain it in a nutshell: if you like experimenting with antennae, radios, alternative power, building your own equipment, tying knots, helping people, the occasional deep philosophical discussion around a campfire, learning from people much smarter than yourself about all of the above while sharing the camaraderie of some very fine individuals who are acting about 25 years old and belly laughing more than you have in a long time, then Radio Camp might be for you.

Monday: Radio Camp starts the Monday before Field Day at the Wagon Wheel campground. The times I have been able to go, there have been about four diehards who show up on Monday. This year there were ten! Dick, WA7NIW is the “Wagon Master” and he will “sic” his ferocious watchdog Baxter on you if you step out of line. I also learned Dick is the “knot master”. At the age of 3 he was showing up his big brothers at Boy Scouts by demonstrating how to tie knots. Also present were Dean, N7XS and Sheila, Christopher AE7XQ with Jeremiah KF7ZPI, Phillip K7PIA, Mark W7EAZ, Steve, the “falling tree dodging Houdini” WB7AAV, Robin, WA7BRI and yours truly.



Monday is about getting living spaces setup; except for Dean. Dean and Sheila have that down to an art so Dean gets to start building his “Maypole” multi-band and “Frankenstein” antennae. If you have never met Frankenstein you really have to. You will leave that wooded laboratory a changed person. Remember the intro quote from the original Frankenstein movie made in the 1930's? “I think it will thrill you. It may shock you. It might even horrify you. So if any of you feel that you do

not care to subject your nerves to such a strain, now is your chance to, uh... Well, we've warned you.” It is very appropriate. I am not sure what all is used to create Frankenstein and I think it changes each year. This year I swear I saw a bumper from a '39 Chevy, a windshield wiper blade holder, an electric fence shock generator and about 30' of reinforced prison grade barbed wire. It kinda looks like one of the Grim Reaper's fingers but that thing has a GREAT SWR!

Tuesday: David WA7DY, showed up. I really need to learn how to camp like David. He can be set up and torn down in a total of an hour! Tuesday was the day to start Radio Camp activities. We all have those “radio projects” we wish we had time to do or need more physical space or more hands or more brain power to assist. This is the

time and place to do those projects. Phillip, Steve and David all brought CrankIR antennas. We should have taken a picture; it would have been a great ad for the SteppIR folks. We all spent time dialing in and marking the radial length per band using antenna analyzers or a vector network analyzer if you are fancy, like Steve and Mark. Phillip was checking into all of his HF nets. Christopher and Jeremiah were always there ready to lend a hand. My project, after sitting on a portable HF/UHF/VHF antenna setup for two years was to set up these contraptions. 2 x 35' very stable fiberglass masts and 2 jumbo tripods. I put a Diamond 300A on top of one mast and strung an 80 Meter Off Center Fed Dipole over to the other mast about 140' away. It worked very well. Both masts had the obligatory pirate flags atop. That took many hands to complete and I am very grateful to all for the efforts!

Wednesday: More Radio Camp! Time to fiddle around with our radios! David was having an issue with his KX-3 and we got that resolved. We also made contact with David's father in law in Arizona. Mark, a newcomer to Radio Camp, showed us his homebrew loop antenna, which was very impressive and a SDR he built from scratch. This was not a kit but a bonafide hand built unit complete with surface mounted components and a 96 pin chip all hand soldered! I think Mark missed his calling- he should have been a brain surgeon. One of the other significant tasks Mark took care of was helping me unify antenna theory and practical applications through my very thick skull! Yes, a sledge hammer was involved.

Random Tech Tip: Verify the factory wiring harnesses of everything. Reversing the polarity of your solar panel/battery charging system wiring raises the RF noise floor... Back to our regularly scheduled program.

I also brought along my 10" Dobsonian reflector telescope with my eyepiece collection and a solar filter.

We got some great views of rare and elusive sunspots. At first we thought it was floaters in our eyes. Thankfully, we had Phillip's young eyes to verify the sunspots; although, looking at the Field Day results it might have been dust on the mirror of the scope. We also saw the horizontal bands on Jupiter and its 4 closest moons and of course our own Moon. We were able to look into some of the craters with great clarity. Something about Ham Radio and Telescopes...



Thursday: The last official day of Radio Camp: Both Phillip and I worked Lou, EA3JE on 20 meters. I was pretty excited to have done that portable until Dean explained Lou's setup in Spain; a stack of multi element 20 meter Yagis. If I would have sneezed at 14.223 MHz Lou would have given me a 5/9 signal report. Steve finally got around to installing his long wire antenna, Mark and I assisted. We used my tennis ball launcher and the first couple attempts were fruitless; including the obligatory "weighted tennis ball sacrifice" to the trees. On the third attempt we finally got it, but it took a little "Ham"

ingenuity to get the ball down the last 20'. So we duct taped a grill brush on top of a spare CrankIR pole. Dean gave us a great tip- wrap the line around the brush; that did the trick! We also spent some time trying to figure out which hand held Yagi to use for satellite work. David's antenna is electrically too short so we tried many different tactics to get the SWR at 436 MHz below the 3:1 it was showing. We never found the answer. The silver lining in that cloud was I spoke with the main guy at Arrow Antennas. He gave us some great tips but he also understood the limitations of this antenna. He stated he had heard this "issue" before and might make a satellite specific handheld antenna. Steve has the big brother to David's Arrow antenna. Being larger it requires a homebrew apparatus to support it. Steve's antenna showed a great SWR at 436 MHz. Remember that little tidbit of information...

Friday 10:00 until Sunday 16:00: Field Day. (1) Set it all up. (2) Work as many stations as you can. (3) Tear it all down. A very oversimplified explanation for the process of a highly organized and well-structured activity this very brief description does not do justice. I am sure others will write about that topic; I am focusing on Radio Camp. However, there were a couple fun things that happened for me during Field Day. I brought a platform for a Rohn

25 tower. That allowed me to get my size 13½ gun boats in a comfortable place where I could actually work on the tower. I did make about 10 QSOs at the 80 Meter station on Saturday night. I finished up in time to see Steve and David out on the bluff hunting satellites. I watched as they made two attempts with no joy. Then we all put our heads together and altered the strategy; we changed to Steve's antenna, David ran the radio, Steve was using an app that showed the position and elevation of the satellite and I was promoted to "rotator" to direct the antenna. BINGO! We got W6YX 5F SCV! That was worth 100 points! It also summed up one of the biggest assets of what Radio Camp and Field Day is, at least for me- with teamwork we become greater than the sum of the individual components. I know that is cliché, but this really was a perfect example of that cliché in action.

A few additional perks to Radio Camp are the morning and evening campfires with a lot of laughter and great stories. I finally made my first batch of percolated coffee. The coffee was really good with that Marrowstone Island water but I see what "watch out for the dregs" means... crunchy! Sharing meals when someone (Steve) would cook for an Army. We all benefitted from that. If we get into an EMCOMM situation I would be very perplexed where to put Steve- in charge of Winlink or the kitchen; probably both. It was fun to hear about Christopher's Swan radio. I hope next year we will get to see it in action. As always, Robin was a fount of great information regarding health, philosophy, theology, psychology and a few other "ologies" I have never heard of, but I always learn something new around Robin. We shared a few spinach and chicken dishes and he shared his healthy version of a "poor man's mocha" with me. Least I forget, Radio Camp would not be complete without the obligatory trip to La Fiesta Mexican restaurant Sunday evening.

For a group project we are looking at building a rhombic antenna over the top of the Wagon Wheel next year. Mark is modeling the rhombic as we speak. That ought to be fun.

That is my take on Radio Camp; far too many details to write about including some things that are never to be repeated and possibly never to be unseen from your mind's eye. Like wearing cowboy boots and hat while in your skivvy's doing the first of the morning zombie run/walk to the outhouse is a faux pas. Who knew?? It was better than going barefoot!

I think I have the Tower Crew convinced to wear kilts next year when we do tower work. Yes, Scott AG7T, Mr. Safety Officer- we will wear steel toed boots and hard hats.

Remember, the first rule of Radio Camp is you do not talk about Radio Camp. The second rule of Radio Camp is you DO NOT talk about Radio Camp! Come on up

next year and find out what it is about. While you are at it, get that project completed and have some fun!

NOTE- If there are any errors or omissions in this article requiring additions or retractions I will be unable to comply because this discussion never happened! snicker... 73-

SEAPAC 2018
By Doug, KG7GVW

Until this year I had never been to a "HAMVENTION". I had worked the Flea Market/Swap Meet a number of times and been to various swap meets but this was different. Some friends were going and at the last minute one could not attend and I was asked to fill in... After pondering for a couple days I said yes and made reservations for Boss at dog jail. And, just to continue a thread from my other articles I also programmed my GPS for geocaches along the route we would be taking to Seaside.

Being retired and loving adventure, WR5J and I decided to leave on Thursday and drive down the coast highway and stop along the way to try our luck at chasing contacts. The truck has a screwdriver antenna from H.



Stewart Designs which can be driven from inside connected his IC-7000, also on the air was his new FT-400XD. I had never used this type antenna or an IC-7000 so while WR5J drove I worked the antenna and radio. This was great of him to do some elmering since I had been considering

a similar set up for my Mazdarati. We chased the EU and the United Nations in NYC.

We stopped at Bruceport County Park which is on a bluff. We set up a couple different antennas with a KX3 while we were there. At first, we tried a Buddiepole, very simple to set up and we tried various configurations and frequencies. I had been thinking about a Buddiepole but after using one decided I like my end fed line antennas, primarily due to less fiddly stuff. We also put up a 20M center fed dipole which WR5J had made. This was more my style and it worked great with the KX3.

A word about the KX3, I had been exposed to a KX2 and was intimidated by the light weight and delicate presentation basically I was afraid I would break it. The KX3 presented the same way but once I got used to it trying to run away (it is light, it slides) when using the buttons it worked great... or I finally got my mind wrapped around using it. We had it connected to the KXPA 100 watt amp, the amp weighs about 1000x what the radio does. I am glad I got to use this little radio and now I can work it without much trepidation... well not more than any other radio.

Back in the truck and onwards to Seaside. Another personal note, both my (dad's parents) grandparents and my parents spent their honeymoon at Seaside, although at different times. We continued to play "tune the antenna" and "find the frequency" along the way. We stopped at historical Dismal Nitch for another tuning moment with mixed success before crossing the river into Oregon. Upon arrival in Seaside and checking into the motel I convinced WR5J that he needed to learn to geocache. He wanted to go for a walk anyway so it did not take too much convincing and we found a cache along the beach walk. I continued to cache alone a couple more times on the trip and most caches had notes from other HAMs of the same proclivity.

Friday we were an AITA station. Antennas In The Air, I am not sure that is really a radio acronym but we hooked a 130 ft end fed to a kite, windsocks and the KX3 then whoosh aloft the antenna went. Then it came back down and then went aloft and then it came back down and so on and so on. The wind was not too cooperative but it was great fun for WR5J and N7OEP and their kite followers. I wanted to try my new CHA EMCOMM II (60ft) and kite pole (30ft) so set it up with my FT-991A.



Note: the KX3 and the FT-991A both have internal antenna tuners. I powered my sand station with a 35Ah battery which weighed about the same as the KX3 amp, I

used the coax/lead line as the counterpoise (glad I read the antenna directions). I skipped into Minnesota, down

to San Luis Obispo and someplace in was a windy, dark and great time for all!

Saturday was filled with swap meet bargaining and educational sessions as well as a great deal of socializing. There were vendors, hoarders and organizations all hocking their wares. In addition to all that there were door prizes galore. My favorite session was about mobile solar, the panels. It was not a marketing pitch for solar panels but KB7RHI talking about his experience using solar and how to figure out how to not waste what you are generating and not using after your batteries are dealt with. It was great, I could follow everything he said. The various session PowerPoints and hand outs are on the SEAPAC website. Sunday was a mixture of sessions, talking heads, more socializing and a great lunch in the local hills at Camp 18 Restaurant which is logging camp inspired and then a walk by the river. We had decided to stay another night and worked with the 20m dipole from our motel window, you could say a MOTA (motel on the air). We set it up in the little grass strip along the sidewalk, it was great all the remaining HAMS wandering around walked up to the window and checked out our propagation. This allowed me with the help of WR5J to coax not coax WSJT-X more commonly known as FT8 into action. TIP: make sure your time clock in your computer is matched to UTC and your mic is off and your USB port is open.

Monday morning on the way to breakfast, a 60 ft walk, HAMS from the night before were hanging out their windows asking for an update on our MOTA station. After breakfast and loading all the stuff back into the truck off we went headed north toward home. Once back into Washington we made contact with a station in central California and heard a couple of other stations which then just faded into the ether.

It was a great trip and I was so lucky to have and assortment of people give me advice and share their experience with me. I will have to continue my solar, HF and digital experiments and maybe tell you about them.

Mike & Key ARC General Meeting Saturday, June 16, 2018 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. The question of the day: *When was the last time you were a net control?*

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: The Annual Field Day is coming next weekend.

Secretary - Michelle Cross WB7AYU: No new correspondence received.

Treasurer - Jim Kiniry KE7JIM: The Swap Meet audit has been completed.

Activity Manager - Phillip Pia K7PIA: Today's program will be a complete review of Field Day preparations.

Vice President - David Yarbrough WA7DY: A quorum is present. 46 Members and 7 guests with 41 ARRL members in attendance. Call for motion to approve previous minutes.

- Minutes: Ivy WA7IVY moved to accept the minutes as published in the Relay; Monica KF7QLX seconded the motion. The motion passed.

- New Membership: Mark Holt W7EAZ and Mike Ranta WB7EPQ were introduced and unanimously voted to full membership.

- Recognition: No Awards recipients were present.

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

Radio Officer - Hal Goodell N7NW: Nothing to report

Editor Reports:

Relay Editor - Mike Dinkelman N7WA: A big thank you for all the many articles submitted.

Website Committee: No report.

Committee Reports:

Membership - Ivy Nelson-Groves WA7IVY (liaison) / Rita Danielson KD7CNU: No report

Facilities and Publicity - Steve Cook KD7IQL (liaison): no report

Education and Training - Robin Carter WA7BRI (liaison): See web schedule of classes upcoming.

Public Service - Tim Kane K7ANE (liaison) / Robert Grinnell KD7WNV: Entering a busy Public Service Events period; Seafair and especially "Big Foot" - 5 days, Aug 10-14. George, AE7G reminds RAMROD is coming up. Consult the Green book for info and contacts.

Technical and Special Interest - Jim Monson K7JGM (liaison): No Report

VE Exams - Scott Robinson AG7T: 5 techs and 2 General resulted from last month's session.

Flea Market - Hal Goodell N7NW/Mike Dinkelman N7WA: On Hiates.

Field Day - Ivy Nelson-Groves WA7IVY: Program will commence after a short break. Much detail will be discussed. All are encouraged to be present.

July 2018

K7LED Relay

Picnic - Hal Goodell N7NW: will be held in conjunction with the August club meeting on Aug 21st at Gene Coulon Park in Renton, WA at the South Shelter #2 at 8:30AM. Testing session will take place at the Salvation Army building.

Old Business:

Audit Committee - The Swap Meet audit has been completed – no discrepancies noted.

New Business: None

Alligator Award: Being held by James WQ7H.

Good of the Order: Steve KD7IQL has brought in boxes of free stuff in the back of room.

Closing The next Mike & Key General Membership meeting is on the third Saturday of the month – July 21st at 10:00 am at the Salvation Army Building in Renton.

Scott AG7T made a motion to close the meeting and was seconded by Gil W7GIL; the motion passed. The meeting was adjourned at 11:00. Field Day Presentations followed.

Guests: 7 Members: 46 ARRL Members: 41
V/R Michelle Cross, WB7AYU - Secretary

Mike and Key ARC Board Meeting Tuesday, July 3rd, 2018 at 7:15 pm Salvation Army Building, Renton, WA

Officers Present:

President - Dave Smith KB7PSN, Vice President - David Yarbrough WA7DY, Secretary - Michelle Cross WB7AYU, Treasurer - Jim Kiniry KE7JIM, Activities Manager - Phillip Pia K7PIA, Radio Officer - Hal Goodell N7NW

Trustees Present:

No. 1 - Steve Cook KD7IQL, No. 2 - Ivy Nelson-Groves WA7IVY, No.3 - Tim Kane K7ANE, No. 4 - Jim Monson K7JGM, No. 5 - Robin Carter WA7BRI

Visitors: Michael Hansen KG7MX

Opening:

The Chairman of the Board Tim Kane K7ANE called the meeting to order at 7:15 pm, with a quorum being present. Ivy WA7IVY moved to approve the minutes as published, with David WA7DY seconding; with much discussion to continue the 'Conflict of Interests' IRS statements, the motion passed.

Officer Reports:

Chairman of the Board - Tim Kane K7ANE: No Report

President - Dave Smith KB7PSN: Passed along correspondence non-club member concerning non-descript repeater interference recorded on a flash drive. It was recommended to return it to the sender without comment.

Vice President - David Yarbrough WA7DY: 5 new applications received: Dave Koeger N3SYO, Ray Montelius KG7WNB, Linda Montelius KG7WMS, Aaron Robinson W7RIZ, Christopher Wagner K7CMW All were discussed and approved by board.

Secretary - Michelle Cross WB7AYU: No correspondence received. Will be compiling a list of all official key holders of the Salvation Army Building, Post Office Box, and Safety Deposit Box with the lists to remain in the Secretarial Records.

Treasurer - Jim Kiniry KE7JIM: Vehicle titles were replaced at \$30.00 ea. Opened a US Bank Safe Deposit Box with 2 keys; one for the Treasurer and one for the Club "Registered Agent". A new 501C3 processing action date may be July 23 or Oct.23. All Field Day bills are due at this time.

Board Resolution: It was moved by Ivy WA7IVY, Seconded by Steve KD7IQL to have remainder of the prepaid dues of club member LW Abel K7LWA (SK on 6/20/18) to be appended to Shelly Stark KF7TBA's (xyl) Dues. Motion passed. A notice of resolution along with condolences will be sent by Secretary Michelle

Activities Manager - Phillip Pia K7PIA: To address Mike of the WVDXC regarding seeking out candidates for the upcoming NW Div. elections for club presentations

Radio Officer - Hal Goodell N7NW: Planning a mountain top trip soon.

Editor Reports:

Relay Editor - Mike Dinkelman N7WA: Input is due by Friday 7/13.

Website Committee: Removed FD Notations and listed Seafair activity dates.

Committee Reports:

Education & Training - Robin Carter WA7BRI / Daniel Stevens KL7WM: There will be a tech class in Blain July 14th & 21st. East Auburn – Muckleshoot Aug 18th & 25th. Ballard Tech & Gen Aug. 8th & 15th. Ballard Extra class on Oct. 27th & Nov. 3rd and 10th. And finally a Ballard tech class on Nov 3rd & 10th.

Membership – Ivy Nelson-Groves WA7IVY: No report

Technical – Jim Monson K7JGM: No report

Public Service - Tim Kane K7ANE: No report

Facilities – Steve Cook KD7IQL: Key distribution defined.

Field Day - Ivy Nelson-Groves WA7IVY: Some outstanding bills out.

Flea Market - Mike Dinkelman N7WA: on summer vacation

Picnic - Hal Goodell N7NW: All coming together for Aug. 18th at Gene Coulon Park. Sign-up at July Meeting

Old Business: Discussions continued about "Conflict of Interest and Intellectual Property and Confidential Agreements" about what to we actually need to incorporate in our procedures manual. It was moved by Ivy WA7IVY; seconded by Steve KD7IQL to Table the discussion. Motion passed.

New Business: Elmers List: Delete or update it? Dave Yarbrough volunteered to update it.

July 2018

Good of the Order: Nothing heard

Closing:

The next Board Meeting will be on Tuesday August 7, 2018 at 7:15 pm at the Salvation Army Building in Renton.

Jim Kiniry KE7JIM moved to adjourn the meeting; Jim Monson KG7JGM seconded. Motion passed.

There being no further business, Chairman Tim Kane K7ANE adjourned the meeting at 20:59
V/R : Michelle Cross, WB7AYU - Secretary.

MIKE AND KEY ANNUAL SUMMER PICNIC

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

When: Saturday August 18th, 2018

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

WHOOPEE, IT'S ALMOST TIME FOR THE ANNUAL SUMMER PICNIC!! While we are not having the weather that we had last year, we can always hope for a warm day for the picnic this year. We will always have a good time socializing with club members and their family. Yes that right, be sure to bring your family or significant other.

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

We will fire up the BBQ's and begin cooking at around 11:00. Hamburgers and Hot Dogs with all the trimming will be provided along with water and soft drinks. Please bring a side dish. (If you don't have anything to bring, that's okay as we always have plenty)

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

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

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

Hal Goodell and Annie Rosello, Picnic Chairs

K7LED Relay

Silent Key – LW Abel, K7LWA

submitted by Dave KB7PSN

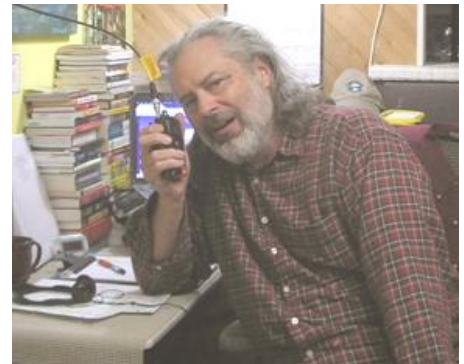
I received a phone call from Daniel Stevens, related to the one of our Club Members. L W Abel / K7LWA, is now a Silent Key. (I think his first name was Leroy, but he preferred "LW".)

My first contact with LW was at a Valley Communication Center Citizen Academy (down in Auburn, WA). (Circa - the year after the Auburn Drive-In Theater closed). He joined the Mike & Key ARC shortly thereafter and was one who kept me apprised of his life with Shelley, KF7TBA, his YL.

LW was one of the instructors in Daniel Stevens / KL7WM's classes. In 2017, he also became one of the Trustees for the PSRG Repeater, 146.96, being active up on that repeater on Crown Hill, Seattle.

He had an extremely positive attitude and seemed to enjoy being a ham radio operator. We would touch base at a few Sea-Pac Conventions in Seaside, OR; a couple of Communication Academy's down at South Seattle College; and a couple of brief chats up on the PSRG Repeater. During the many holidays, we would exchange

celebratory greetings, simple sentences, via text messages. Within the last 3 years, I believe he only attended one Club meeting. He just couldn't fit it in his busy schedule.



It was nice to have him, and Shelley, both as good friends. So long, LW!

The CW Beach Experience

submitted by Michael, N7WA

CW Beach is unique as a Field Day experience. I expect there are other Field Day sites on beaches around the country but not with the quality location, operators, and helpers we have.

This year was no different, new prospective Club members Ray KG7WNB and Linda KG7WMS were helping setup their first CW Beach. (No, they don't do CW but that isn't a reason not to come down and have fun.

July 2018

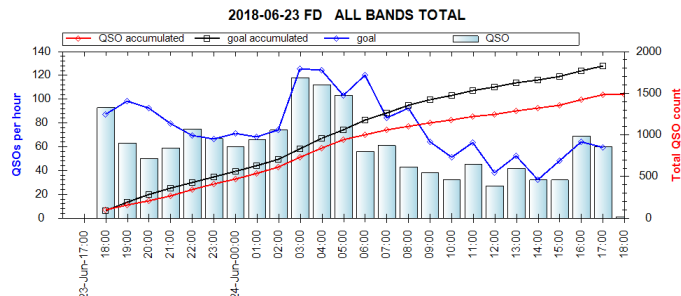
Then there are the regulars Marshall KF7EHA, Robin WA7BRI, Toku AD7JA, and Chuck WA7EBH. Not a serious CW op in the bunch but we really appreciate them helping us setup and teardown.

This year's operating crew includes Hal N7NW, Guy N7ZG, Dick W7UDH, Randy K7TQ, Bob K6PQJ, and myself. Six ops is great, as the basic schedule becomes two hours on, four hours off. Still, there is always room for more as Mark W7EAZ found out Sunday morning.



The weather was mostly decent. We had some rain Friday night but once it passed, it was calm and pleasant until teardown when we had some threatening showers but nothing really came of it.

Propagation, on the other hand, was not pleasant. I think most of the stations experienced a drop in total output.



The chart above is an eye chart but if you have the electronic version you can zoom it. (You can also see it and each bands results on the [Field Day picture site](#).) The black line with the squares was our goal based on 2017. The red line was reality. There is a drop of 400-500 contacts.

So what! We had fun, experienced some camaraderie, learned new things, and no one got hurt. Even better,

K7LED Relay

15M SSB and 15M CW stayed out of each other's hair this year. It was more success than failure. As usual, we have a ToDo list for next year.

Hope you had fun at Field Day. We did.

Many thanks to Randy K7TQ for producing this data and providing a real time system where we could monitor our progress and link the station computers together. (Maybe our IT guys could figure out a system for SSB and CW combined?)

Into APRS? - build your own

HX1 - VHF Narrow Band FM APRS Transmitter *(this is not an endorsement, just something interesting)*

Five volt, low-power (300mW), narrowband (3kHz) VHF FM transmitter module. With a simple antenna, range will be around 6 miles. Since this is a "bare" transmitter, the data input must be properly modulated and formatted. There are several Arduino software packages that can do this, see the hookup guide for information.

Fun at Field Day



July / August 2018						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
15 (July)	16	17	18 Mike & Key Technical Net 7:30pm 146.82	19	20	21 10:00-M&K Club Mtg [Salvation Army- Renton] 12:30- Ham Radio Exams Contact: Scott—ag7t@arrl.net Waterland Parade Des Moines West Seattle Hi-Yu White Center Jubilee
22 China Town Parade Seafair Triathlon	23	24	25 Mike & Key Technical Net 7:30pm 146.82 Greenwood Parade	26 RamRod	27 Tour de terrace	28 Cycle for Life TorchLight Parade
29	30	31	1 Mike & Key Technical Net 7:30pm 146.82	2	3	4 Lake City Days
5	6	7 Board Meeting 7:15 PM Salvation Army	8	9	10 Bigfoot Articles Due For Relay	11 Bigfoot Auburn Days parade Obliteride Rainier Valley Parade
12 Bigfoot	13 Bigfoot	14 Bigfoot	15 Mike & Key Technical Net 7:30pm 146.82	16	17	18 10:00-M&K Club Mtg & Picnic [Gene Coulon Park- Renton] 12:30- Ham Radio Exams Contact: Scott—ag7t@arrl.net Woodinville Parade