

# K7LED Relay

Volume 45, Issue 7

Mike & Key Amateur Radio Club – Seattle

July 2017

## Welcome to Summer 2017 From David Smith KB7PSN President

This year, again, a sunny weekend during Field Day activities. We always seem to have more fun when the sun comes out. Thanks to all who helped with the contest. The results should be posted within a couple of months.

Our next club event that we will be involved in will be the summer picnic combined with the August Club Meeting. Up at Gene Coulon Memorial Park, the Club has reserved South Shelter #2 for August 19, 2017, from 8:30 am until 1:30 pm. The Club meeting still starts at 10 am -- this time, after the meeting, we have a potluck picnic/BBQ at the park. And, at 12:30 pm, VE testing will still occur at the Salvation Army. Arrive early to guarantee a good parking place, else a long walk may be necessary.

Seafair is in full swing. Seems each town within King County celebrates by holding a street fair and parade, shutting down streets and letting participants travel through the main streets. Smiles optional! Many of these events are looking for volunteers to help ensure that event goes off without a hitch. Check the [Public Service](#) page to help out. Bring along your handheld, sunscreen, and enjoy the events -- the Seafair Torchlight Parade and Seafair Hydroplane Races always need assistance.

Hope to see you at coming events. Enjoy the summer!

**As a tribute to  
Dan Warner, KB7HIN (SK),  
members of the Mike & Key ARC  
wore their Hot Press Hats to the  
June Club Meeting**

(Don't forget, if you are reading an e-Relay, you can easily zoom into pictures to see them better)

## Celebrate our July Members By Jim Kiniry KE7JIM, Treasurer

As of July 2017, 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. Each of you makes us who we are. **Happy Anniversary this month!**

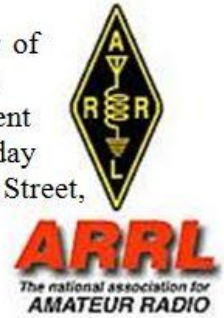
Jimmy Sutton*	K7NQ	42 Years
Hap King*	W7QCV	33 Years
Jim Maras*	WA7FMT	30 Years
Dick Vance*	K7NEX	28 Years
Sam Sullivan*	N7RHE	26 Years
David Lee	KC7FSR	22 Years
Larry Smith, Jr.	AB7FJ	21 Years
Robert Grinnell	KD7WNV	14 Years
Arlene Hand	KF7NDO	7 Years
Scott Castonguay	KC7UOC	6 Years
Monica Cook	KF7QLX	6 Years
Earl Palmer	N7EP	6 Years
Kjell Anderson	K7YAR	4 Years
Gustavo Merle	KG7LVG	3 Years
Tim Landes	K7CHZ	2 Years
Geraldine Kellogg	KI7EIV	1 Year
Jason Kellogg	W7JTK	1 Year
Thomas Redfern	W7EZT	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.



**Postal Address:**  
P.O. Box 4234  
Renton, WA 98057-4234

**Web Site:**  
[www.mikeandkey.org](http://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

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

#### Trustees

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

#### Committees

<b>VE Testing</b>	Scott Robinson	AG7T	ag7t @ arrl.net	425-788-0452
<b>Membership</b>	Steve Marth	WB7AAV	<a href="mailto:mikeandkeymembers@gmail.com">mikeandkeymembers@gmail.com</a>	
<b>Logo</b>	Jim Aigner	N7MU	jimaigner @ comcast.net	253-630-2752
<b>Club Library</b>	'Toku' Okumura	AD7JA	ad7ja@msn.com	206-772-2450
<b>Webmaster</b>	Jim Etwiler	KD7BAT	kd7bat@arrl.net	425-788-7887
<b>Public Service</b>	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](http://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.

## July 2017

### Field Day 2017 submitted by Rita KD7CNU

Field Day 2017 is now in the history books. A great weekend this year! Weather was fantastic, B & B guests were fantastic and the food was good.

We had a few new guests this year in the B & B and I believe they had a good time. I heard no complaints. Everyone was considerate of their neighbors and roommates. We had a few more staying Thursday night.

Breakfast Friday was easy, muffins and/or bagels, fruit, coffee and juice. Lunch was provided at the set up sites, build your own sandwiches and chips with chilled water. Saturday breakfast was a tad heartier with the usual Saturday morning fare. Biscuits and gravy, scrambled eggs, bacon and sausage, fruit and juice. The coffee was flowing all day. We had a good turnout for the Friday and Saturday night BBQ. No one left hungry.

Sunday was check out day for the B & B, after a breakfast of French Toast with strawberries and whipped cream, bacon and sausage, everyone that wasn't operating or logging, was helping with clear out. Everything went very smoothly this year.

Made my notes for next year, now I can relax a bit before gearing up for next year. Camp Wilson is already reserved for next year, deposit made and acknowledged. We are set to go.

See you all at the July meeting, July 15<sup>th</sup> and at the August 19th meeting at the park, Gene Coulon Park in Renton. Come early, grab your spot on the grass and enjoy the time out in the fresh air watching the kids splash around in the lake, or join them. 73/88 Rita

### Yahoo List Server submitted by Michael N7WA

Many of the newer members may not know that the Mike & Key ARC has an email list server provided by Yahoo. It's the best place to get the latest announcements between newsletters.

It's a private list so you have to ask to join or can be invited. The private list allows us to keep the spammers away. Occasionally, someone gets hacked but I quickly remove their posting rights until they get the issue resolved. There isn't a lot of email that comes flowing by so you aren't going to get buried.

How do you join? You can send me an email at n7wa@arrl.net and let me know what email address you want to use and I'll send you an invitation. If you have a Yahoo account, you can also look for the *mkarc*

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Group and make a request to join. The request has to be approved so there might be a wait of a day.

### Ham Radio Support Needed July 29 - Seafair Torchlight Parade

By Gary Bryan KG7KU, Seafair Parade Marshal

On behalf of Liz Budbill N7ZXH & the Seafair Parade Marshals - we need your help!

Email ASAP to: [lbudbill@gmail.com](mailto:lbudbill@gmail.com).



Thank you so much for your support for the 2017 Alaska Airlines Seafair Torchlight Parade!

Also, don't forget your local community parades. They are a great warmup for the big one. See your Public Service pamphlet or look on the newsletter calendar. -ed

### Field Day Pictures submitted by Michael N7WA

Due to the Amended articles of Incorporation being published, I probably won't get many Field Day pictures published this month (maybe next month) but pictures are out there for you to see.

<https://goo.gl/photos/wcyCm6wYsoBtV6YS6>



*Field Day Cake brought to the potluck by K7TQ*

If you have a gmail account, you can add your own pictures and/or comments. All are downloadable. Feel free to share the link.



by Dan, KG7DAB

**You're Grounded!!** Dreaded words we've all heard at one time or another from our parents. Drat! Stuck at home. Thank goodness for Lego, or better yet, ham radio! If you were like me as a kid, you had a room full of electronics and old ham radio equipment. I got mine from my Uncle, W7WB (SK), that I used to tinker with for hours at a time. Grounded mom, really? ...OK!!

Now, as adults and licensed ham radio operators, when we hear those words, "You're Grounded!", we think, "YES!" with a subtle fist pump of success like we just sank the winning putt at the PGA tour. My noise floor just went down and my equipment and personal safety just went up.

What's my point? I need to be grounded. Not so I can play with Lego, but so my shack is at its best. I have an 8' ground rod leaning against my house that needs driving into the ground and a little bit of antenna work done. Usually, not a problem. But, as you may have heard, I just got out of the hospital from back surgery so I won't be pounding anything into the ground for quite a while, let alone climb up on the roof to 'tweak' my 2 meter antenna.

So, if you are feeling ambitious and have a couple hours to spare, I could use a little help. Contact me at [KG7DAB@ARRL.NET](mailto:KG7DAB@ARRL.NET) so we can coordinate a time and I can find out what kind of food you want :-)

There is another ham in our club that just got out of the hospital too. He too can use a little antenna rearranging. Let's rag chew about this and see what we can come up with. 73-

**QRZ at ARRL FD17 with M&K**  
by Tim K7ANE, M&K Board Chairman

A quarter century ago Fred Lloyd, AA7BQ, along with Rusty Carruth, N7IKQ, spun QRZ off from the "Callsign Project." Originally it was just a dial-up bulletin board. Since then QRZ has become the premier on-line callsign

database for ham radio operators across North America and around the world.



Fred, AA7BQ, and his XYL Robin.

The QRZ.com website now also includes sections for Amateur Radio News, Forums on diverse ham topics, a Swapmeet to buy and sell gear, and links to related Resources such as practice exams. It's an invaluable service to the ham community.

Recognizing his contribution to all of us, in 2011 the Dayton Amateur Radio Association, the sponsor of the annual Dayton Hamvention, awarded Fred with their Special Achievement Award, an honor truly earned.

In 2011 Fred also did Mike and Key the honor of joining us at Field Day at Fort Flagler. His large motorhome was wedged snugly into the corner of the Wagon Wheel. He helped with set-up and operated at the various stations both on the bluff and on CW Beach. Both he and his wife joined us for the pot-lucks and campfires.



The QRZ land yacht, snuggled into its space at the Wagon Wheel. Note vertical antenna on rig's LF corner.

Two years later, in 2013, Fred again asked if he could join us, and was warmly welcomed and joined in the fun for the extended weekend. From Scottsdale, Arizona this year he and his wife Robin and another couple of friends from the Grand Canyon state joined us again.

Surprisingly, this year Fred gave us more than his friendship and ham comradery. He donated \$500 to the club, a gift totally unexpected but much appreciated. On behalf of the Club, we've sent Fred and QRZ a sincere thank-you note. If any of our members would care to add their personal thanks, he can be reached at [Floyd@QRZ.com](mailto:Floyd@QRZ.com).

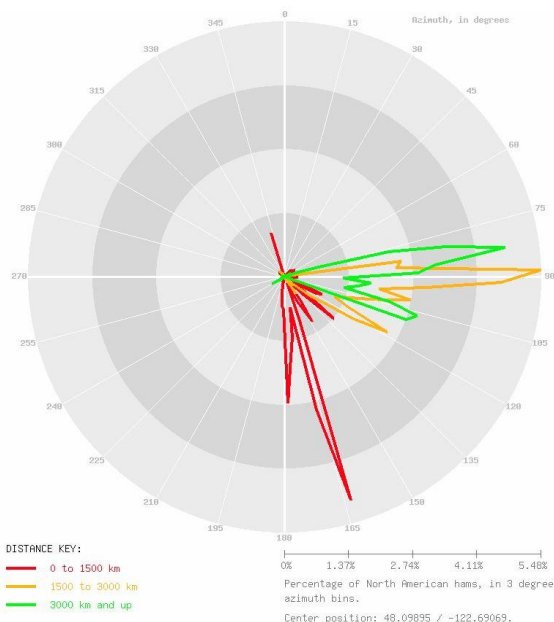
### Field Day Antenna Plotting by Michael, N7WA

Tucked away on page 46 of the June 2017 QST was a small article box that I missed last month. (It was inserted in an article about rhombics - something I don't have room for.) Returning from Field Day after joining us on CW Beach, Randy K7TQ brought the article to my attention.

The author, Jim WU0I had geo-coded every ham, by address, in the USA and then created an algorithm to plot the data based on a home location. The idea was to show where were the majority of hams relative to that home location. He turned it into a web page that anybody can access.

<http://www.deloach.net/PointYourFieldDayAntenna/>

I used the site to plot from Fort Flagler. You can see the results below. What does it show?



What it shows is that the major population centers from Fort Flagler are east and south. The colors represent the distance of those population centers. Of course, many hams leave their home addresses to do Field Day but it's expected the data is still fairly valid.

East and south? Sounds pretty obvious I know. However, there may be a couple take-ways for this. On CW Beach, we mainly beam east and never move the antenna. We might want to consider moving the antennas south occasionally (15-20 minutes each hour) to maximize our capture of stations to the south.

On the bluff, you may want to ask if a rotator is really much use? If you find yourselves pointing anywhere but 90 or 165 degrees, you're probably not firing to maximum effect. (Remember those HF beams probably have a 20-30 degree beamwidth). Dean N7XS probably has the best idea. Two antennas, both lined up on those major population centers

It's an interesting exercise and useful to think about.

### Not Your Everyday Public Service Event: Bigfoot 200, August 11-15 Robert Grinnell, KDTWNV Public Service Committee Chairman

If you (would) enjoy--

- portable/Field Day-style radio operations;
- camping in the Cascade Mountains amid stunning scenery;
- exploring bands/methods like digital modes, 6 meters and HF/NVIS that aren't employed for most public service events; and/or
- an opportunity to make use of more of your array of field/emergency radio and support gear;

--then this is the event for you...



The Bigfoot 200 is an ultra-endurance run/hike covering 200 miles through the Mt. St. Helens National Monument and Gifford Pinchot National Forest, conducted over five days, August 11-15 (Friday-Tuesday). This will be our second year supporting the 200. We have also supported its shorter sibling event, the Bigfoot 120, in October of the last two years, though that is being

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reduced to 100k and moved up to July this year. We are already pretty well set for the 100k, but seek additional hams to operate the 200.

Participants begin on the south side of Mt. St. Helens and finish in Randle, supported by 14 aid stations along the course. Runners may be on the trail day and night, and typically sleep minimally. Therefore, although aid stations operate on a staggered schedule according to movement of runners through course, once open, each aid station operates around-the-clock until it shuts down.

As extraordinary an athletic endeavor as this is for the participants, the location, terrain, scale and duration of the event present significant challenges for communication as well. To circumscribe the course would encompass an area of some 700 square miles. The terrain is constant valleys, ridges and mountains ranging from under 1000' to over 5000'. There is little and only spotty cell phone coverage, only at the peripheries. A review of coordinated repeaters yields only one that should have any significant coverage of the area at all. Event operation is continuous for five days and four nights.



Our communications mission is to link the aid stations with event HQ at Finish, passing regular traffic about the runners' progress, as well as providing safety, logistical and other ad hoc communications. Due to the staggered periods of service for the aid stations, no aid station operates the full 5 days (only Finish does). Stations near the start operate only a few hours or a day, then as the runners spread out along the course the length of operation successively increases to three days for the last few stations. **Ham assignments are available in durations ranging from 1 to 5 days.** For hams that are available 3-5 days, it's frequent practice to redeploy from an earlier station to a later station when the former shuts down. To cope with the around-the-clock station operation, we seek to staff stations with multiple operators.

When we began with the Bigfoot 120 in 2015, I was not aware of any usable repeater coverage for the course, so I sort of "threw the kitchen sink" (mixed metaphor?) at the project. We got by that first time primarily with 2-

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meter simplex and station-to-station relays, along with some 6-meter simplex (which can travel better through some terrain), and did some experimentation with HF/NVIS along the way.

We now have access to a pair of linked repeaters that form a reliable backbone for a 2-meter/70-cm FM phone network accessible by most of the aid station sites. However, I've retained that philosophy of using this as an opportunity to explore other bands and methods, so we still set up for 6 meters and HF at Finish. Prior to learning of the repeaters last year, we were (and still are) prepared to set up a 6-meter/2-meter cross-band repeater. (Ever heard of anyone doing *that*?) We do employ V/UHF cross-band repeaters to help a couple of sites get into the network. This year, due to interest by some of our hams, we'll be adding the option of digital modes—both station-to-station simplex with NBEMS, and Winlink via external gateways on HF—for those that want to try it.

If all those options sound daunting, don't worry about them--they are just that, *options*. The FM phone network over the repeaters is our primary operation. **The only fundamental requirements are that you be licensed, and be able to camp relatively self-sufficiently in the mountains.** (For that matter, you could even stay in a motel and work at Finish with a control operator!) Anyway, the point is that if you are interested in helping, I'll find a place for you. We have a core group of experienced hams that are well equipped for field operations, but with the need for multiple operators at the stations, there is a need for additional operators regardless of field radio equipment. It's a great learning opportunity for the newer ham or anyone without significant experience with radio in the field, and for those with more experience, skills and/or gear, a rare chance to exercise them as part of an organized event. Oh, and did I mention the scenery?

If this sounds like something you'd like to be involved with, please contact me at KD7WNV @ arrl.net, or see me at the July meeting.

**Mike & Key ARC General Meeting**  
**Saturday, June 17th, 2017 at 10:00 am**  
**VFW Hall, 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 type of social media do you use?"

### *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.

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### *Officer Reports:*

*President* - Dave Smith KB7PSN: The Club is looking to gain the "Special Service Club" status with the ARRL; we will be putting in an application soon.

*Secretary* - Phillip Pia K7PIA: Nothing to report.

*Treasurer* - Jim Kiniry KE7JIM: Not present; Laura KF7ELG will fill in for him today.

- Laura Bendit KF7ELG: The books are in order; I will pass on any dues turned in today to Jim.

*Activity Manager* - Jim Monson K7JGM: There is good stuff for the Raffle today; any tickets bought today will also be entered in for the Grand Prize(s) at the end of the year (an Elecraft KX3, and possibly an antenna). A Field Day update is the program, and will be presented by Ivy Nelson-Groves WA7IVY.

*Vice President* - David Yarbrough WA7DY (Dave Smith KB7PSN, acting): Not present; the President will assume the VP's duties for this meeting. A quorum is present.

- Minutes: Peter Glaskowsky K4PNG moved to accept the minutes as published in the Relay; Ivy Nelson-Groves WA7IVY seconded the motion. The motion passed.

- New Membership: None

- Recognition: Bill Balzarini KL7BB for 5 years of membership.

*Chairman of the Board* - Tim Kane K7ANE: The next board meeting will be on Thursday, July 6th due to the July 4th holiday. We are currently considering a transition to 501(c)(3) organization status; if you have any thoughts on this issue, be sure to come to the next Board Meeting on July 6th.

*Radio Officer* - Hal Goodell N7NW: The Club-owned 220 repeater antenna is off the tower; the 220 repeater is currently being serviced by Hal's old repeater antenna.

### *Editor Reports:*

*Relay Editor* - Mike Dinkelman N7WA: Be sure to send in your articles and pictures, and thanks to those who submitted content this month.

*Webmaster* - Jim Etzwiler KD7BAT: The website is mostly up-to-date. The Field Day page will be updated soon. If you see something that is out of date, let me know. The Articles of Incorporation should be uploaded (with addresses redacted) to the website soon.

### *Committee Reports:*

*Membership* - Tom Helm WT7S (liaison) / Rita Danielson KD7CNU: Nothing to report, as the committee is on summer hiatus.

- Dave Smith KB7PSN: An "atta-boy" is in order for Tom WT7S, who secured this meeting location for us after the Salvation Army scheduling conflict.

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

*Education and Training* - Robin Carter WA7BRI (liaison): 150 new hams have been licensed, and eight initial licensing & upgrade courses have been taught (five Technician Class courses, two General courses, and one Extra Class course) so far this year. One attendee passed all three exams in one testing session. 137 licensees have upgraded this year so far.

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There are two Technician licensing classes in July: July 8 & 9 in Fox Island, and July 22 & 29 in east Auburn. The next scheduled class is September 9 & 16 in Ballard, and October 14 & 21 in Bellevue.

*Public Service* - Robert Grinnell KD7WNV: There are lots of events and opportunities coming up soon, especially in July. Be sure to see the Public Service booklet or the webpage for the latest event and contact information. There are bundles of booklets available for group distribution; see me if interested.

*Technical and Special Interest* - Steve Marth WB7AAV (liaison): Field Day is coming up - a highly technical activity!

*VE Exams* - Scott Robinson AG7T: 4 examinees were present for the last VE Exam session, with two Technician, one General, and one Extra class exam element(s) passed. The next VE Exam session will be after today's program, here at the VFW Hall.

*Field Day* - Ivy Nelson-Groves WA7IVY: Today's program will be a Field Day update, as it takes place next week!

*Picnic* - Hal N7NW: There will be a picnic at Gene Coulon Park in Renton (South Shelter #2); it will be the site of the August General Meeting. Sign-up sheets will be at the July General Meeting.

*Audit Committee* - Sam Sullivan N7RHE: Everything went well this morning; the Flea Market books look great.

### *Old Business:*

- Robert KD7WNV: We still have Field Day merchandise that was ordered in the group purchase; be sure to pick it up if you have not already.

- Tim K7ANE: Bill K17BZ's badge has come in, and is available to pick up today.

*New Business:* Nothing heard.

*Alligator Award:* Jim K7JGM hands off the award to Steve Marth WB7AAV.

### *Good of the Order:*

- Dan N7QHC: I have a crank-up tower with a quad antenna, and a SteppIR vertical for sale; see me if interested.

### *Closing:*

The next Mike & Key General Membership meeting is on the third Saturday of the month - July 15th at 10:00 am at the Salvation Army Building in Renton.

Peter Glaskowsky K4PNG made a motion to close the meeting and was seconded by Monica Cook KF7QLX; the motion passed. The meeting was adjourned at 10:42 am.

Guests: 1    Members: 53    ARRL Members: 47  
Attested: Phillip E. Pia, K7PIA - Secretary.

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### Mike and Key ARC Board Meeting Thursday, July 7th, 2017 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, Radio Officer Hal Goodell N7NW

#### *Trustees Present:*

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

#### *Editors Present:*

(Absent: Webmaster Jim Etwiler KD7BAT, Relay Editor Michael Dinkelman N7WA)

#### *Visitors:*

Monica Cook KF7QLX, Ivy Nelson-Groves WA7IVY, Michelle Cross WB7AYU, Michael Hansen KG7MX, Laura Bendit KF7ELG

#### *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 minutes as published, with Jim Monson K7JGM seconding; the motion passed.

#### *Officer Reports:*

*Chairman of the Board* - Tim Kane K7ANE: Fred Lloyd AA7BQ from QRZ.com donated \$500 to the Club at Field Day. The Board will sign and send a thank-you card to him.

*President* - Dave Smith KB7PSN: Nothing to report.

*Vice President* - David Yarbrough WA7DY: No new member applications this month; nothing else to report.

*Secretary* - Phillip Pia K7PIA: Nothing to report.

*Treasurer* - Jim Kiniry KE7JIM: The latest budget and roster updates were sent out to Board members. He will not be at the next General Meeting due to unforeseen circumstances; Laura Bendit KF7ELG will take his place.

*Activities Manager* - Jim Monson K7JGM: A guest speaker will be coming and giving a talk about a DXpedition at the next General Meeting. Jim will not be present at the next General Meeting.

*Radio Officer* - Hal Goodell N7NW: He recently went up to the Club's repeater site to troubleshoot the 220 repeater (with its sensitivity problems); the issues were isolated down to the repeater radio unit. The 220 repeater is currently off-the-air until the issues are fixed with the repeater radio, and the Club-owned 220 antenna was also taken off the site (as Hal's old 220 repeater antenna is currently servicing the Club's repeater, and another group's 440 antenna took the place of the Club-owned 220 antenna). The 2m repeater QRM issue is still ongoing.

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#### *Editor Reports:*

*Relay Editor* - Mike Dinkelman N7WA: Not present. It was mentioned that articles and pictures are due tomorrow - submit your Field Day stories (you know you have at least one!).

*Webmaster* - Jim Etwiler KD7BAT: Not present. The July Relay will be posted on Sunday.

#### *Committee Reports:*

*Education & Training* - Robin Carter WA7BRI: Not present. Jim Kiniry KE7JIM relayed Daniel Stevens' KL7WM email report. There are two Technician Licensing Classes in July: July 8 and 9, 2017 in Fox Island, and July 22 and 29, 2017 in east Auburn. The next scheduled class is September 9 and 16, 2017 in Ballard, and October 14 and 21, 2017 in Bellevue.

*Membership* - Tom Helm WT7S: Not present.

*Technical* - Steve Marth WB7AAV: The Technical Net continues on Wednesday evenings at 7:30pm on the Club 2m repeater.

*Public Service* - Tim Kane K7ANE: Robert Grinnell KD7WNV could use some more help with Bigfoot; contact him if interested.

*Facilities* - Steve Cook KD7IQL: On Sunday, July 23rd, an inventory of the Field Day equipment will be taking place at Toku's.

*Field Day* - Ivy WA7IVY: We had a Field Day! Preliminary results and post-event notes have been posted to the OneNote site. If you have any feedback or concerns, let me know via email or at the next General Meeting. Dean N7XS's 40m station was the "King of the Bluff," with the 20m phone station not following far behind. Overall we did well, garnering many contacts across all of our stations (Bluff and Beach), and were able to complete most of the bonus point opportunities. Total QSO points came in at just under 6000 (QSOs only, no bonus points included yet). Low participation numbers was a concern this year; we had just as many participants (around 50) as we did visitors, making setup and teardown more difficult. Final rankings will be published in QST magazine in November.

*Picnic* - Hal Goodell N7NW: We will have a picnic at Gene Coulon Park in Renton for our August General Meeting. More information will be published in the Relay, and sign-up sheets will be at the July General Meeting.

#### *Old Business:*

- Dave Smith KB7PSN: Tom Helm WT7S is struggling with getting the \$200 deposit back from the Renton VFW Hall.

- Jim Kiniry KE7JIM: We are still looking for the W-2G IRS form that was filed for the Grand Prize at the December 2016 General Meeting. Steve Cook KD7IQL will try to find it.

- David Yarbrough WA7DY: He drafted responses to the essay questions for the ARRL Special Service Club application; copies were passed out for the perusal of the Board. Action on this matter was tabled until the next Board Meeting due to limited time.

- Michael Hansen KG7MX: He provided an update as to the proposal to apply for 501(c)(3) status with the IRS. If the Club would like the benefits of 501(c)(3) status in this tax year, then it is important to get moving on this as soon as possible.



Suggested amendments to the Club's Articles of Incorporation were drafted by him to enhance our case to the IRS. He recommended that the amended Articles be put to an affirmative vote of the membership after 20 days notice in the Relay. If approved by the membership, a filing (with a check for the \$70 fee) would be submitted to the Washington State Secretary of State with the Club's amended Articles of Incorporation. Once that is approved by the State, the Club can then move ahead with the federal IRS 1023-EZ application for 501(c)(3) status.

- A motion was made by Jim Kiniry KE7JIM to submit the amended Articles of Incorporation to a vote of approval by the membership after 20 days notice in the Relay, and to authorize the President - if the amendments are approved by two-thirds vote of those members present at the following General Meeting - to take appropriate steps in order to achieve 501(c)(3) recognition as soon as possible. The motion was seconded by David Yarbrough WA7DY, and passed.

- A motion was made by Steve Cook KD7IQL for the Treasurer to write a \$70 check to the Washington State Secretary of State for filing our amended Articles of Incorporation (pending approval by the membership); Jim Kiniry KE7JIM seconded the motion. The motion passed.

- Ivy WA7IVY: She expressed concerns about people borrowing equipment from the Field Day equipment trailer. A motion was made by Hal Goodell N7MW and seconded by Jim Monson K7JGM, for the ability of Club members to borrow - via a formal check-out procedure - equipment from the Field Day equipment trailer, except in the 3 months prior to the event. The motion passed.

- Ivy WA7IVY: We had troubles with the equipment trailer generator this year, and got it fixed just in time for Field Day. It was suggested that the Club allocate \$30 to \$50 per year to a Field Day major equipment fund, in case something happens in the future.

*New Business:* Nothing heard.

*Good of the Order:* Nothing heard.

### *Closing:*

The next Board Meeting will be on Tuesday, August 1st, 2017 at 7:15 pm at the Salvation Army Building in Renton. There being no further business, the Chairman adjourned the meeting at 8:27 pm.

Attested: Phillip E. Pia, K7PIA - Secretary.

## Northwest DX Convention

*by Michael, N7WA*

Don't forget about the DX Convention August 4-6. This year it will be held at the downtown Red Lion in Spokane sponsored by the Spokane DX Association and the Idaho DA Association. You can go for the day or make it a weekend. You can just go for programs or do the full meal deal (Saturday Banquets and Sunday Breakfast). If you are interested in DXing or Contesting, these are your peers. They would love to meet you.

<http://pacificnwdxconvention.com/>

## MIKE AND KEY ANNUAL SUMMER PICNIC

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

When: Saturday August 19th, 2017

Where: Gene Coulan 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. My fantastic wife, Annie, and I are again chairing this affair, for the eighth year, where has the time gone!!

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. Unfortunately we are not going to have our fantastic burger cooking crew, Greg and Linda. They have moved to Arizona. Bet it is hot there. Our very own "barracks mom", Rita, has volunteered to jump in this year. Yea!! Oh also, we are going to miss Toku's fantastic treats, as he also will not be able to make it due to conflicting event. Sure going to miss his specialties. 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](mailto: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

From the minutes: *Michael Hansen KG7MX: He provided an update as to the proposal to apply for 501(c)(3) status with the IRS. If the Club would like the benefits of 501(c)(3) status in this tax year, then it is important to get moving on this as soon as possible.*

*Suggested amendments to the Club's Articles of Incorporation were drafted by him to enhance our case to the IRS. He recommended that the amended Articles be put to an affirmative vote of the membership after 20 days notice in the Relay. If approved by the membership, a filing (with a check for the \$70 fee) would be submitted to the Washington State Secretary of State with the Club's amended Articles of Incorporation. Once that is approved by the State, the Club can then move ahead with the federal IRS 1023-EZ application for 501(c)(3) status.*

**AMENDED ARTICLES OF INCORPORATION  
of the  
MIKE AND KEY AMATEUR RADIO CLUB**

A Non-Profit Corporation

These are the Amended Articles of Incorporation as approved on \_\_\_\_\_, 2017. All previous Articles are hereby superseded by these amendments.

**ARTICLE I  
NAME**

The name of the corporation shall be: MIKE AND KEY AMATEUR RADIO CLUB.

**ARTICLE II  
TERM**

The term of existence of this corporation shall be perpetual.

**ARTICLE III  
CORPORATE PURPOSES AND POWERS**

The purposes for which this corporation is formed are:

1. To bring together those who are interested in amateur radio communications for the exchange of technical information and mutual support;
2. To support the American Radio Relay League ("ARRL"), amateur radio's national voice, so long as it remains tax-exempt within the meaning of Section 501(C)3 of the Internal Revenue Code.
3. Notwithstanding any other provision of these articles, the corporation is organized exclusively for charitable, educational, and scientific purposes under Section 501(C)3 of

the Internal Revenue Code, or the corresponding section of any future federal tax code, and the corporation shall not carry on any activities not permitted to be carried on by an organization exempt from Federal income tax under Section 501(C)3 of the Internal Revenue Code.

4. Upon dissolution of this corporation its assets shall be distributed for one or more exempt purposes within the meaning of Section 501(C)3 of the Internal Revenue Code, or the corresponding section of any future federal tax code. If the American Radio Relay League (ARRL) is exempt within the meaning of Section 501(C)3 of the Internal Revenue Code, or the corresponding section of any future federal tax code, at the time of dissolution, its assets shall be distributed to the

ARRL. Otherwise its assets shall be distributed to another such exempt organization for such exempt purposes.

5. To enhance amateur radio, operating ability and promote goodwill between Club members and the local, national and international public;

6. To conduct Club programs and other activities to educate members and the public regarding amateur radio;

7. To operate communications facilities, promote amateur radio and public service;

8. To make available resources, when feasible, for amateur radio operations, education, and meetings of members and guests, on leased or Club owned premises;

9. To encourage youth and seniors to become amateur radio operators, to help amateur radio operators upgrade their FCC licenses and operate more effectively;

10. To increase the availability of affordable equipment for amateur radio operators;

11. To enhance amateur radio operational capability, and lessen the burdens on the government in the event of natural disasters and other emergencies; and

12. IN ADDITION, to engage in any other activity which the Club deems related to or in furtherance any of the foregoing, as well as to exercise any power granted by the statutes of the State of Washington to non-profit corporations, and may do all acts necessary or expedient for the administration,

conduct, and attainment of the purposes of the corporation, BUT SHALL NOT, except to an insubstantial degree, exercise any power which is not permitted by IRC Section 501(C)3 or corresponding sections of any future code to tax exempt corporations, such as carrying on propaganda, attempting to influence legislation, or campaigning for or against any candidate for public office.

**ARTICLE IV  
REGISTERED OFFICE AND AGENT**

The registered agent, office and address of the corporation shall be that of the Radio Officer, as listed in its most recent annual report filed with the State of Washington.

**ARTICLE V  
MEMBERSHIP**

Membership in this corporation shall be as provided in the By-Laws.

**ARTICLE VI  
INUREMENT OF BENEFITS,  
DISTRIBUTION OF CORPORATE ASSETS**

A. No part of the earnings of the corporation shall ever inure to the benefit of, or be distributable to, its donors, members, directors, trustees, officers, or to any private person, except that the corporation shall be authorized and empowered to pay reasonable compensation for services rendered and to make payments and distributions in furtherance of the purposes set forth in ARTICLE III hereof.

B. The corporation shall distribute its annual income so as not to become subject to the tax imposed by Section 4942, nor will it invest so as to be taxable under section 4944, or make taxable expenditures as defined in section 4945(d), or engage in any act of self-dealing as defined in Section 4941(d), or retain any excess business holdings as defined in section 4943(c), insofar as applicable to its business. In all instances where sections are specified, they include the corresponding section of the Internal Revenue Code and any future federal tax code.

**ARTICLE VII  
BOARD OF DIRECTORS**

The business affairs of the corporation shall be managed by a Board of Directors. The number of directors shall be fixed by the By-Laws and may be increased or decreased from time to time in the manner specified in the By-Laws. A director of the corporation shall not be personally liable to the corporation

for monetary damages for conduct as a director, except for liability of the director (i) for acts or omissions which involve intentional misconduct by the director or a knowing violation of law by the director, or (ii) for conduct violating RCW 23B.08.310 or the corresponding section of any later RCW; or (iii) for any transaction from which the director will personally receive a benefit in money, property, or services to which the director is not legally entitled. If the Washington Nonprofit Corporation Act is amended to authorize corporate action further eliminating or limiting the personal liability of directors, then the liability of a director of the corporation shall be eliminated or limited to the fullest extent permitted by the Washington Nonprofit Corporation Act, as so amended. Any repeal or modification of the foregoing by the directors of the corporation shall not adversely affect any right of protection of a director of the corporation existing at the time of such repeal or modification.

**ARTICLE VIII  
INDEMNIFICATION**

The corporation has the power to indemnify, and to purchase and maintain insurance for its directors, officers, trustees, employees, and other persons and agents, and (without limiting the generality of the foregoing) shall indemnify its directors, officers, trustees, employees, and other persons and agents against all liability, damage and expense arising from or in connection with service for, employment by, or other affiliation with this corporation to the maximum extent and under all circumstances permitted by law.

**ARTICLE IX  
AMENDMENT and BY-LAWS**

The Board of directors of this corporation shall have the power to adopt, amend or repeal these Articles of Incorporation and By-laws. These Articles and By-Laws as amended shall become effective when approved by the membership.

Calendar JULY / AUGUST 2017						
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 (July)	10	11	12 Mike & Key Technical Net 7:30pm 146.82	13	14	15 <b>10:00-M&amp;K Club Mtg</b> 12:30- M&K Ham Radio Exams Contact: Scott— <a href="mailto:ag7t@arrl.net">ag7t@arrl.net</a> [Salvation Army- Renton]  <i>Kent Cornucopia Days - N7QLT</i> <i>Kla-Ha-Ya Days Parade - N7QLT</i> <i>Hi-Yu Festival Parade - N7QLT</i>
16	17	18	19 Mike & Key Technical Net 7:30pm 146.82	20	21	22  <i>BigFoot 100 - kd7wnv@arrl.net</i> <i>Des Moines Waterland Festival - N7QLT</i> <i>White Center Jubilee Parade - N7QLT</i>
23  <i>BigFoot 100 - kd7wnv@arrl.net</i>  <i>Chinatown Parade - N7QLT</i> <i>SeaFair Triathlon - N7QLT</i>	24	25	26 Mike & Key Technical Net 7:30pm 146.82  <i>Greenwood Parade - N7QLT</i>	27  <i>RAMROD Bike Ride - AE7MK</i>	28  <i>Tour de Terrace - N7QLT</i>	29  <i>CF Cycle for Life - W7VSF</i>  <b>SeaFair TorchLight - N7QLT</b>
30	31	1 (AUGUST)  <b>Board Meeting 7:15PM</b> <b>Salvation Army</b>	2 Mike & Key Technical Net 7:30pm 146.82	3	4	5  <i>Lake City Pioneer Parade - N7QLT</i>
6	7	8	9 Mike & Key Technical Net 7:30pm 146.82	10	11  <i>BigFoot 200 - kd7wnv@arrl.net</i>	12  <b>10:00-M&amp;K Club Mtg</b> Gene Coulan Park 12:30- M&K Ham Radio Exams Contact: Scott— <a href="mailto:ag7t@arrl.net">ag7t@arrl.net</a> [Salvation Army- Renton]  <i>BigFoot 200 - kd7wnv@arrl.net</i> <i>Auburn Good Ol' Days Parade - N7QLT</i>

Contact: N7QLT, [hamsignup@seafairparademarshals.org](mailto:hamsignup@seafairparademarshals.org)  
 Contact: W7VSF, [vickie\\_fontaine@outlook.com](mailto:vickie_fontaine@outlook.com)  
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 Contact: KI7SS, [ki77ss@arrl.net](mailto:ki77ss@arrl.net)

## Activity Manager Report

When I first was elected to the Activity Manager Mike, N7WA made this suggestion for a program, "Following his first DXpedition to the North Cook Islands, Bengt, K7ADD, will share his experiences and tips for those considering their first trip, large or small. His perspective as a newer ham on a solo DXpedition may provide a different perspective than the post trip reports following larger trips by more experienced hams."

<http://e51amf.amateurfoundation.org/>

We have Bengt, K7ADD for the program this month! Should be very informative.

73-

Jim

K7JGM