



K7LED Relay



Volume 50, Issue 11

Mike & Key Amateur Radio Club – Seattle

November 2022

Celebrating November Members

By Scott Gilyeat, KC7SAG, Treasurer

As of November, 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.

Years

30	Richard Bridges	N7YOB
29	Gil Drynan	W7GIL
28	Joe Langjahr	KJ7DG
22	Dick Radford	WA7NIW
21	Dave Mackin	KB4ERF
20	Hideki Saito	WU7J
17	Adam Koczarski	K7ARK
16	Tim Kane	K7ANE
12	Robin Carter	WA7BRI
4	Alex Malesis	W7AEM
3	Bronwyn Thomas	KJ7KAK
2	Ryan Frederick	K7NZE
2	Michael Jarchow	W6TS
2	Megan McLaren-Adams	KN4VUW
2	Bob Nunes	KJ7RAN
1	Eric Drucker	No Call
1	Scott Eklund	W7HYZ
1	Allyson Fry	KK7AJZ
1	Gregor Harrison	KJ7ZOK
1	Rob Horsch	N7RLV
1	Joe Levorsen	KF7AAT
1	Chris Sokol	KD5ILI

Life Member, having been with the club 25 years

Silent Key - Al Mannings - KI7IXS

By Koda Mondragon, KI7IXR

Al Mannings was born on May 27, 1941 in Colchester Vermont. His original call sign was WB1DLW which he earned as a young man, in the days when you had to be able to pass the Morse code portion of the exam. His main joy was always listening to the radio, not so much talking on the radio. Later in life (in his 70s) he earned the call sign KI7IXS.

Al was drafted into the Vietnam War and spent his time at Fort Lewis in the Field Artillery Division where he certified, and worked on, the big-guns that were headed for the front lines. Among his many accomplishments, he was a fixed-wing pilot and continued to fly into his mid-70s. For over a decade, he was a member of the Civil Air Patrol as the East Coast Division Search and Rescue's Mission Pilot and served on standby with them for NASA during the early days of the Space Shuttle Program when NASA wanted to ensure a search and rescue team was available for the Eastern seaboard if needed.

He performed three jumps with the Army Golden Knights, and summited both Mt. Rainer, and Mt. Saint Helens in the mid-60s. An accomplished, Quarry-men, Machinist, Detective, State Park Campsite Volunteer, and National Parks Ranger, he spent the last 12 years of life living as fully as anyone can live.

In 2016 he renewed his HAM radio license and promptly joined two HAM clubs, the Mike and Key club was one of them. In 2017 he was a volunteer for the annual Mike and Key Fleamarket and was proud to belong to a premiere HAM club with deep roots. He often bragged about being a member of

such a prestigious club to his friends and family. He spent the last year of life on Home-Hospice through the VA and passed away peacefully, at home, and in the arms of his loved one (KI7IXR) on October 28, 2022, at the age of 81. He is forever loved and always missed.

Programs for the November Meeting and beyond

by David W7DAO

Our guest speaker is Lynn Burlingame, N7CFO, the ARRL Western Washington Affiliated Club Coordinator and ARRL Western Washington Section Assistant Director - Northwestern Division.

Lynn will discuss the history and evolution of telegraph keys. His presentation will be illustrated with photos of numerous keys, speed keys and related instruments. He will also provide information about keying and how to select a key to meet your needs.

Programs for the next several months are as follows:

Nov: Evolution of Telegraph Keys by Lynn Burlingame
Dec: TBD
Jan: NVIS Antennas by Robin Carter
Feb: Swap Meet
Mar: Raspberry Pi and SDRs by Paul Osborne
Apr: Myths of HF Answered by Richard Clark

Experiences from the 2022 Salmon Run

By Manfred Bester, AG7NR

For this Salmon Run, my roving plan was adapted from last year's, but in reverse order. I left my home in Seattle on Friday morning and drove to Toledo, WA where I stayed at a farm overnight. Along the way I activated 3 parks. On Saturday morning I started rather early to get to my first location: Johnston Ridge Observatory at Mount St. Helens National Volcanic Monument (NVM) in Skamania County. I was excited to see Mount St. Helens close-up for the first time, as it was completely shrouded in clouds last year.

Since it is common for mobiles to work 80m at the top of the hour, it was a bit hectic with three of us calling on nearby frequencies. N7WA's signals were a clean S5 without any background noise, but in the heat of the moment I blew the opportunity to work him at his tri-county location. I was able to contact the K7TQ team, and then called CQ myself. My yield on 80 and 40m was sparse at this location, but 20 and 15m worked very well, totaling 68 QSOs, including 5 EU stations on 15 m (DL3DXX, DL3GA, F5NKX, OM2VL, SP6JOE). I did not hear anyone on 10m. After two hours I moved to Cowlitz and Lewis Counties. These two locations turned out to be rather inefficient, and I already have a new county line planned for next year.

Then I drove for two hours to get to the Wahkiakum/Pacific County line alongside WA-4. I was able to log 102 QSOs on 80/40/20m over the

course of 90 min. Next stop was the beach in Ocean Shores, Grays Harbor County that also took two hours to get to. I worked 80/40m (including OM2VL and SM2M on 40m) at 0300-0500 UTC, plus 80/40/20/15m for about 3 hours on Sunday morning, for a total of 108 QSOs. The salt-water-soaked sand underneath the car seemed to work quite well!

My next location was a brief stop at the Grays Harbor National Wildlife Refuge. Then I continued to the Capitol State Forest near McCleary. The uphill gravel road starts at the Grays Harbor ORV Park (WA-8 and Cooper Road SW) and leads to a turnout in Thurston County. My final location was in Mason County near US-101. There was quite some activity on 40m during the last hour. Throughout the contest it was at times difficult to work on or near my planned frequencies, as those were often occupied by strong Texas QP stations.

This was my third Salmon Run participation. In total I completed 390 unique CW QSOs plus a good number of FT8/FT4 QSOs outside of the contest. With 73 multipliers (28 WA counties, 37 US states, 3 VE provinces, 5 EU DXCC entities) and working W7DX for bonus points, my claimed score in the mobile CW-only category was 85,910. This was a significant improvement over my scores in 2021 (56,660) and 2020 (34,904). Higher solar activity was helpful, too, as I had only one 15m QSO in 2020, none in 2021, but 64 this time. The best locations for

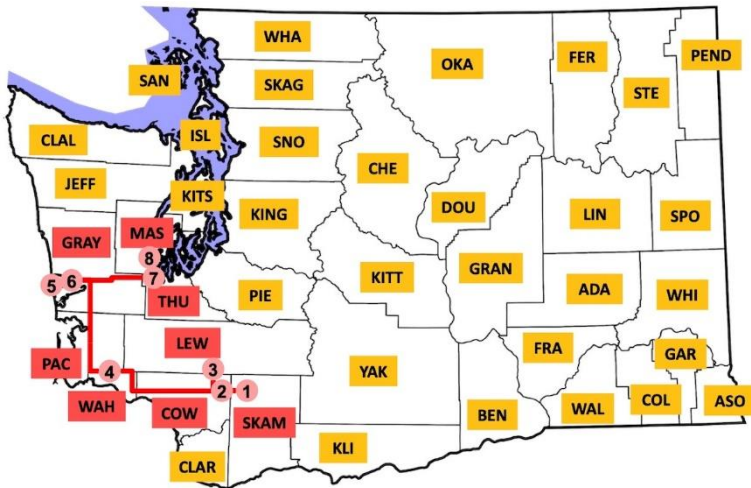
15m were those shown in the photos. My most frequent QSO partners this year were N7IR (13 unique QSOs), OM2VL (10), K7TQ/M (9), N7EPD (9), and K9CW (9). Many thanks to all stations who responded to my calls!

Presumably, the main reasons for being able to improve my score were better operating locations and spending more time at the best ones, plus a lot more CW practice. Almost a year ago I acquired an inexpensive Windows laptop for logging with N1MM+ but I ran out of time to configure and test it in my mobile station. It came in handy, though, to practice CW in Morse Runner mode.

During this Salmon Run the limitations of using Fldigi stand alone for logging on a MacBook became obvious rather quickly. I had trained myself to start typing call signs into N1MM+ with a relatively short brain FIFO of maybe 3-4 characters at 28 wpm. With Fldigi there is too much time lost between mouse clicks on the CQ button and moving the cursor into

the call entry field the moment someone answers, especially in an ergonomically challenged mobile environment. In many cases I had to hear a call sign a second time to enter it correctly. Of course, there are other reasons for using N1MM+, and I wished there was a MacOS version. In any case, I will now try to make a push to setup N1MM+ for my mobile CW operations and plan to give it a try during the upcoming CQ WW DX contest (Nov. 26/27).

My mobile configuration was nearly identical to my setup in 2021 (FT-891/FC-50, 100 W; aluminum mast sections, loading coils and a cap hat for 80/40/20 m; hamstick for 15 m). There was no need for field repairs or any other technical issues to resolve. New loading coils with lower losses for 80/40/15m, plus an impedance transformer to increase overall antenna performance have been in the works and should be ready for next time.



My roving map for the 2022 Salmon Run covered 8 counties in Southwest Washington: Skamania, Cowlitz, Lewis, Wahkiakum, Pacific, Grays Harbor, Thurston, and Mason. (Raw map credit: Wikimedia)

Operating Location 1 near Johnston Ridge Observatory at Mount St. Helens NVM in Skamania County. The antenna was installed only while parked but meets height restrictions for legal motion. Band changes required swapping loading coils. This is the 20-m configuration with a home-built loading coil.



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Loading coil for the 20-m antenna. The body consists of Banjo polypropylene fittings with very low dielectric losses. The AWG #10 copper wire is silver coated and covered with a thin varnish layer. Coils for other bands are under construction. More on this in a later write-up.

Operating Location 5 on the beach at Ocean Shores (Grays Harbor County) with the 20m antenna installed.



Operating Location 7 in the Capitol State Forest (Thurston County). This is the 80m antenna configuration with a Wolf River Coils "Silver Bullet 1000" loading coil. Several pickup trucks loaded with mountain bikes came up to this turnout. Riders were curious about what I was doing and seemed excited about my explanations.

Salmon Run – I was out there

By David W7DAO

I was out at Ocean Shores for the Salmon Run.

I made some SSB contacts across WA, Canada, south to TX, and East to NJ. The real fun was the night before using the $\frac{1}{4}$ wave vertical on 20m, I made a QSL to Brazil with 65 watts on SSB.

I often use contests to test new field antennas. Image 1 and 3 is the porcupine box in use for 20m and 40m (Sept Relay). Image 6 is an elevated $\frac{1}{4}$ wave vertical with two "linked" elevated radials. Linked as in linked dipole with spade connectors.

The two linked radials can be used as a dipole if I can get a line high enough in a tree, or as shown as a counterpoise with my 16' whip and coil as a vertical.

The porcupine box is more for quick short-term set-ups. Often for multiple days of camping I set up a 30' fiberglass mast and use the two 16'-foot whips for 20m-6m as a horizontal dipole and a vertical 1/4 with a loading coil for 40m. Alternatively I can set up a bunch of ham sticks for a fan dipole.



Porcupine box – with and without vertical
see September 2022 Relay for details



elevated $\frac{1}{4}$ wave vertical with two "linked" elevated radials

Don't be afraid to use the ZOOM feature of your PDF reader to view the pictures in greater detail – Ed.

“CQ Contest, CQ Contest...”

by John Lindsey, K7NWA

It's 4:30PM on Friday, October the 28th and I've just logged out of work for the day. The weekend belongs to me and me alone, and I intend to spend as much of it as possible parked in front of a radio. I'm excited – antsy, even – and for good reason: the CQ World Wide DX Contest begins at 5PM local time, and in 30 minutes the HF bands will be packed with thousands of amateurs from all across the globe eager to get as many stations as possible into their logbooks.

For a few weeks now the 10-meter band has been in terrific shape most afternoons; it's the first time 10 has been open since I got my ticket. I've never been much of a DXer, but working six continents in the span of a few days has turned me into a fiend, and getting that next new country in the logbook is all I've been able to think about for days. I haven't heard much on 10 so far today and I'm worried that it may not open up this weekend, but I tune up and wait for the start of the contest with high hopes – and crossed fingers.

My HF setup is about as modest as they come: an Icom 706 and an end-fed half wave cut for 40 meters, configured as an inverted-V with the middle up about 35 feet. If my 706 were a person it would be old enough to drink, and it doesn't have any filtering options. Rounding out the station are an MFJ manual tuner and a pair of \$30 no-name DJ headphones from Amazon. Not a setup that would make anyone jealous, but it's what I've got to work with and I plan to make the most of it.

4:55 and I still don't hear much on 10 meters. I make myself a cup of coffee and sit back down in front of the radio just in time for the clock to strike five. I put my headphones on and spin the VFO knob; I'm hearing plenty of faint signals now, but nothing strong enough to work. I head a little farther up the band and a W7 station pegs my S-meter. I turn on the attenuator and work him quickly, then look him up on QRZ. It's a contest station right across the water from me in Gig Harbor – if nothing else at least I know groundwave propagation is strong. I move up a few more kilohertz and work another stateside station. Things look a little more promising now, this one's in Maine. The Caribbean begins coming in strong – the US Virgin Islands, the Caymans, Aruba – but I can't bust any of the pileups they've attracted and I waste too much time trying. It's twenty after the hour and I've only made four contacts, all in the lower 48. I'm beginning to get frustrated and I consider changing bands, when suddenly I hear a Francophone accent. It's FK8IK, in New Caledonia, and I only have to call once to get him in the logbook. The next three minutes net me three more DX contacts, one in Samoa and two in Hawaii. A VK3 comes in at 10dB over S9, then completely disappears mid-sentence before I can work him. I tune up and down the band and it's desolate; just as quickly as propagation began to heat up, it's died altogether. Time to move on.

I move down to 15 meters, not knowing what to expect, and work Cape Verde right off the bat. I

couldn't tell you where Cape Verde is if you held a gun to my head, so I'm pleasantly surprised when a quick search tells me it's off the coast of North Africa. This is the kind of DX that thrills me the most: far-flung locales I've never even heard of, let alone imagined I'd ever talk to. I spin the VFO knob and just about fall out of my chair when I hear a Russian accent, but the excitement is short-lived; he's in California. I work him anyway and keep moving. Japan is coming in strong now and I get my first JA for this evening in the logbook, then another, then another. They're out in force and they keep me busy for quite a while; I'll work a total of 33 Japanese stations across 15 and 20 before the night is over. The sun has been down for 45 minutes by now, but I manage to sneak in several more stations across the continental US as well as one Alaskan contact before the band goes kaput.

20 meters is not in great shape and most of the DX stations I hear are very weak. Central Europe is coming in faintly – Poland, the Czech Republic and Slovenia – but none of them can hear me. Brazil, Chile and Venezuela are a little stronger, but I can't break through the pileups. I work a few more stateside stations and one in Ontario, then decide to take a break for the night. It's nearly 7:30 anyway, time for the Mike & Key social net, so I stretch my legs and fix another coffee. Thirty contacts across four continents in the span of a couple hours is nothing to sneeze at, so I don't feel too bad about calling it quits and starting back up in the morning. Besides, I'm sure that

20 meters will be toast by the time the net concludes, anyway.

Sometimes it's great to be wrong. Once the net wraps up, I turn my 706 back on, just for grins, and 20 meters is lit up like a Christmas tree. I start at 14.225 and work three Japanese stations in three minutes, and I marvel at how strongly the DX is rolling in as I head up the band. My signal is getting out better than it has all night and I pick them off one by one, like a sharpshooter: Guam, eastern Canada, another Cape Verde, Aruba, the Caymans, St. Lucia, Hawaii, with more Japanese and US stations in between than I can keep track of. It's fast and furious, and the band doesn't give out until nearly 11:30. By then I've made 63 contacts in six hours, more than I've ever made in a single day. Hell, there have been plenty of *months* when I haven't made 63 contacts! I'm far to wound up to go to bed, so I head over to the .820 machine and hear a couple guys talking about how they've fared in the contest so far. I do what comes naturally – jump in and brag!

Saturday morning, I start out early on 20 meters and immediately I'm treated to my first big thrill of the day: the band is wide open to northern Europe, and with a little

bit of patience I get Germany, Sweden and Finland in the logbook, all new ones for me. Conditions overall are a lot tougher than they were the night before, so I'm bouncing back and forth between 20, 15 and 10. Propagation into Hawaii is favorable across all three bands, and by lunchtime another half dozen operators have wished me "73 and aloha." 10 meters opens briefly and yields effortless contacts into Mexico, French Guiana and Argentina. Japan is all over 15 meters in the late afternoon – no shock there – and I pick up a handful of new prefixes. There won't be any late night QSOs for me today, sadly; the bands poop out around dusk, and after staying up until the wee hours the night before, so do I.

Things are *slow* on Sunday morning. I can just barely hear the Canary Islands on 10 meters and I manage to get them in the logbook, but that's the only station I can dig out of the noise. 15 and 20 are just as quiet, so I pause for a while and enjoy my coffee. When I return to 20 meters, I hear a big, big signal; it's B7P calling CQ. I don't recognize the prefix, so I plug it into my logging software – it's China! And what's more, nobody's calling him! I must have stumbled into him just as he

was starting out. I throw out my callsign and he asks me to repeat my suffix. This happens three more times – he's practically pegging my meter but he obviously can't hear me very well. I'm nervous he'll give up, but he gets it eventually and we complete the QSO. Success! I keep plugging away for another hour or so and pick up Madeira, Brazil, a few Australians and a couple of Finns, but after working into China I'm just about floating above my chair, and I call it quits early, feeling more than satisfied. With 108 contacts into 23 unique DX entities using 100 watts and a wire, I've done everything I set out to do and then some.

I had more fun than I could ever put into words working the CQ WW DX contest, and I learned an awful lot. Maybe this time next year I'll have a better antenna and a rig with a better receiver – but the most important part of any station is the guy between the chair and the radio, and I hope he'll be better, too.

Of course, I won't have to wait very long for more DX contesting fun. CQ runs another contest the last weekend in November, this time for CW. Where did I put my paddles?

Swap-Meet Post Card Labeling

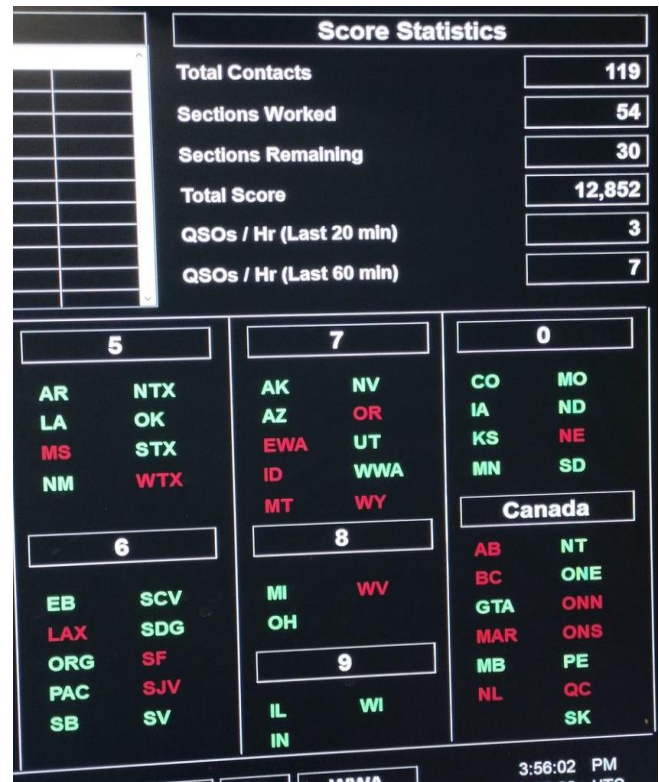
By Mike, N7WA

The ARRL provides mailing addresses for our Swap-meet every year. This year, we really wanted to try out the electronic format and have the printer print the address as the postcards were being produced. Unfortunately, the ARRL doesn't provide a validation report for the electronic addresses like they do with physical mailing labels. Without that validation report, no bulk mailing rate. So, I asked for volunteers to stick labels on postcards again. I got plenty of volunteers – more than I need but thanks to all of you that responded. When the labels and the postcards arrive, I will be getting in touch with some of you. (I had hopes by the November Club meeting but probably not.) When I do get them to you, they need to be completed by mid-December for mailing the first week of January.

This odd picture showed up on the Mike and Key Facebook a few days ago. Not much of an explanation was attached but it seems Michelle WA7PVE has discovered the joys of CW and played in the November CW Sweeps to the tune of almost 13K points and managed to work a good portion of a WAS.

Now, I've known Michelle just about as long as I have been in the Club and I am pretty sure she was traumatized by the ghost of Samuel Morse very early in life.

Maybe Michelle could elucidate, to the rest of us, in this newsletter, just what has happened to relieve herself of this trauma.



CW Sweepstakes

By Mike, N7WA

It was an interesting Sweeps this year. While Sunday was slow, it didn't seem as grinding as in the past. Saturday didn't seem to be as frantic either. Expected (hoped for?) more out of 10M. Again, I failed the "Sweeps" part of the test. Never heard NNY or NL and it wasn't for lack of trying. Worked more EWA's than usual. I had fun and I expect I will be back again.

Band	QSOs	Pts	Sec
3.5	15	30	0
7	252	504	22
14	304	608	25
21	189	378	28
28	62	124	7
Total	822	1644	82

From the ARRL and John Pescatore K3TN:

The ARRL Sweepstakes has its roots in "The January Contest" announced in December 1929 QST. It was originally structured as a message handling contest for hams in Canada and the US (which at the time included Cuba, the Philippines and

"Porto Rico") and ran for two solid weeks in January. A successful two-way exchange of a minimum ten-word message would result in two points for each station. The number of message points would be multiplied by the number of ARRL sections (at the time 68) for the final score.

A key rule was "Participating stations will be limited for the purposes of the contest to sending but one test message to each station worked; that is, further messages can be transmitted but will not add to the contest score of either station." Thus, was born the dreaded "work stations once per contest" rule.

While a lot about the contest has stayed the same over the years, much has also changed. Sweepstakes was moved to November in 1932; a separate phone contest was added in 1941; and operating time was limited to 24 hours along the way. However, for the past half-century not much has changed, other than the ARRL section list gradually expanding to its current level of 83.

What the heck is going on?

By the Editor

Lest you think the Mike & Key has turned into a Contest Club from all the preceding articles – I can only wish. I'll print what folks want to write about. If you like doing SOTA or a POTA, write about it and I'll publish it. If you like to build or experiment, write about it and I'll publish it. If you have interesting contacts on the air, write about it and I'll publish it. Was there something interesting on the Technical Net? Write about it and I'll publish it. If you determine that there is actually something worthwhile about FT8, write about it and... well... hmmm... okay... I'll publish it. It's your newsletter, write for it.

Maybe DIY Baluns are Better?

By David Okrent, W7DAO

In the September 2022 Relay I had a short article on what I call the Porcupine Box. I field tested it at a campsite near Ocean Shores with a 1:1 balun attached to the feed point and the vertical element was a loading coil with a telescoping 16' whip. After getting the coil tap adjusted, I was happy to quickly have a QSO with a ham in Brazil on 20m and then the rest were domestic and Canadian contacts. Was running 65 watts SSB. I grabbed a few SSB QSOs on 40m as well. I considered this successful enough. Yes, there was room to improve the set-up, and I am up to version 4 of the box now, but that may be another article.

One of things I decided to add to the porcupine was a built-in 1:1 current balun instead of an external one. This meant I had to go with a slightly bigger box – plastic and waterproof. Since I tend to over engineer a bit, I went with a 240-43 sized toroid (2.4" diameter); although I never run more than 100 watts. I do own a 1:1 and 4:1 balun and a 9:1 unun to support my various field antenna configurations, but these are commercial and I decided to wind my own.

I know how to construct a current balun, but I have never built one myself, so I decided to go for it and of course, I gave myself a quick review via online resources. I highly recommend the work done by TRX Labs on their YouTube videos #100, #101, and #105. I consider these a must see.

There are two basic designs for current baluns, consecutive (my term) and parallel windings. Baluns using coax seem to use consecutive windings and ones using two-independent wires use either. However, when it comes to common mode attenuation these two designs are not equal. The parallel windings are far superior as not only did the TRX Lab video showed, but I confirmed this on the

bench too. My research indicated the coax may have a slight advantage over individual wires in the consecutively wound design as inductance of the windings maybe offset slightly by the inherent capacitance of the coax.

Attenuation is one aspect, but with a 50 ohm resistor sitting in for the antenna the ideally is the SWR will be flat. Unfortunately, this isn't often the case, but it appears to me that once again the parallel winding design is better than the consecutive wound version.

So parallel it is. I cut two 36" pieces of red silicone insulated wire and two black of the same length. I took one black and one white and wound 12 turns on half the toroid and with the other set put 12 turns on the remaining side. Wires are tightly butted together but don't overlap each other. Then I join the two reds on the south end, the two reds on the north end, and do the same for the black wires. One pair will go to the antenna and the other to a UHF connector. This is housed in the Porcupine Box.

I put a 50 ohm resistor on the antenna side and hook in the NanoVNA. The resistance and SWR readings weren't bad, not perfect. So how did my job compare to the well-known and well respected LDG 1:1 current balun. I think you will see in Figures 1 and 2, my version, seemed to perform better than the LDG 1:1; Figures 3 and 4. I opened the LDG up and noticed they use the consecutive windings design, not two parallel coils, one continuous spiral. I tested my other balun and my unun and well, I am not happy and these are from well-known companies. When it comes to baluns and ununs, maybe DIY is the better option. Go wind one and see what you find.

Hmm, maybe adding a capacitor will improve things? Back to the bench.



Figure 1



Figure 2



Figure 3

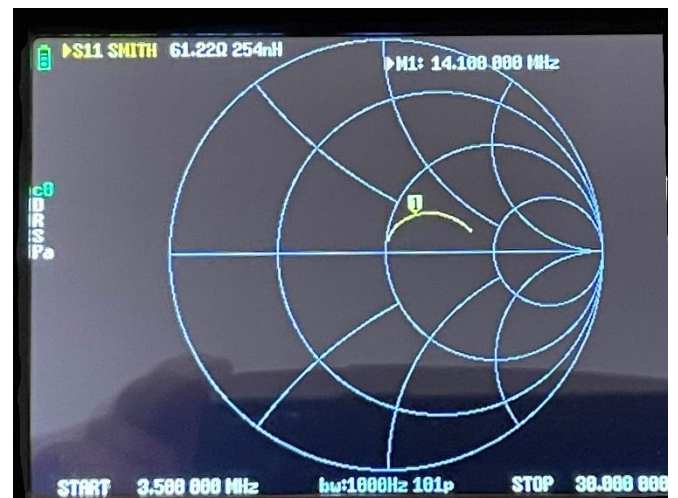


Figure 4

“5 and 2, New Zealand!”

by John Lindsey, K7NWA

Scrolling through 15 meters one morning, I heard a peculiar din midway through the phone portion of the band. I thought it was a pileup at first, but instead of callsigns, it was signal reports and locations being thrown out.

“59, Oklahoma!”
 “4 and 4, Toronto!”
 “You’re 57, Los Angeles!”
 “5 and 2, New Zealand!”
 “Twenty over, Alaska!”

I listened for a while, puzzled, until my curiosity got the better of me and I took to Google. It turns out that I had stumbled across the Activity Group, a few dozen hams who meet each day on 17, 15, 12, and

sometimes 10 meters, to test propagation and have a bit of fun.

On each band, a list is built of folks who’d like to participate, and then they take turns making a short call. Everyone who can copy the station calling returns in kind with a signal report and their QTH. All participants identify every ten minutes, to satisfy FCC regulations.

They insist that it isn’t a net, so there’s no control station *per se*, but Gary (K5IGO) and Shawn (VE3XYY) tend to be the ones building the list, so keep an ear out for them. If you can’t hear them, any station who can copy you is generally happy to act

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as a relay if needed. Roger (ZL1XR) is the resident Kiwi and it's always a blast getting a 59-signal report from him.

I strongly encourage you to join in on the group sometime and put out a few calls.

Mike and Key ARC General Meeting Minutes October 15, 2022

Attested to by Carl Reynolds, Secretary

Call to Order – Phil K7PIA @ 10:03 am

Reports:

- President: Phil K7PIA, No report
- Secretary: Carl N7CJR, No report
- Vice President: Steve KD7IQL, Steve announced there was a quorum. Last month's minutes were approved. Prospective members: Steve Oi NV6A, Jiro Oi KW6A, John Lindsey KC3OSK, Marty Smith KK7DAW, Wayne Cavanaugh KA7CEE, Dennis Krinke KK7HXX and all were approved for membership. Scott requested all new members to pay dues.
- Treasurer: Scott KC7SAG, Scott reported club's finances in order and expense report submitted to board; Scott reported current membership at 286.
- Activity Manager: The board has recommended Dave W7DAO for the position of Activity Manager. The general membership will vote during new business.
- Radio Officer: Hal N7NW No report
- Relay Editor: Mike N7WA: Thanks for the articles. It's your relay.

Committee Reports

- Membership, Rita KD7CNU/Manfred AG7NR, Manfred: Congratulations to new members. Committee is looking for ways to attract the new members to become involved in club activities.
- Education/Training: Robert KF7RWA, Daniel KL7WM, Daniel: report is in "Good of the Order."
- Public Service: Robert KD7WNV, Seattle marathon on Saturday, November 27th still needs volunteers. Matt will contact previous volunteers and is in the booklet with contact info. Dick WA7NIW: Seafair Holiday Cruise on Sunday December 4th is looking for general volunteers. They are also currently looking for a HAM coordinator. If interested, please contact Susan Ubank, susan@seafair.org.

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You'd be surprised where you're being copied! Below are the frequencies and times where the Activity Group can be found:

17M: 18.157.5 MHz at 1730-1830Z daily

15M: 21.383 MHz at 1830Z daily

12M: 24.970 MHz at 1900Z daily

10M: Frequency announced the day of

- Tech/Special Interest: Jason KJ7GLB / Mark W7EAZ: Jason: thanks for all the NET operators. Audiovisual/ZOOM operators are needed for general membership meetings. Please reach out to volunteer.

- Facilities: Jay AE1J, No report

- Repeater: Steve KD7IQL Currently waiting on DNR to process transfer from PSRRG. There was a donation of 2 Motorola radios to MTR2000 club. Gold Mt. site and replacement at Tiger Mt. site.

- Swap Meet: Hal N7NW / Mike N7WA – Mike gave a quick overview on the SWAP MEET. Setup will be on March 10th with the swap meet on March 11th. The Swap Meet has been sanctioned by ARRL and the database has been populated with preregistrations. Letters will be going out later in October to those who have preregistered. Flyers have been priced with addresses on flyers. Online volunteer signup will be active in November. No phone system for 2023. Pay attention to your relay for status and announcements. Hospitality chair position is vacant.

- Field Day: David WA7DY N/A

- Audit: N/A

- Old Business: None

- New Business: Activities Manager nomination. David W7DAO has volunteered and has been recommended by the board to be voted on by the general membership. David W7DAO was approved. David will be looking for ideas from membership on areas of interests. David announced November's activity will be a presentation on the evolution of CW keys and how to purchase a used keyer by N7CFO Lynn Burlingame.

- Good of the Order: Dan N7QHC, 10 meters was open this past Thursday to New Zealand. 1010 Net 1800Z has been loud and clear.

A few free items are on the table.

Daniel KL7WM, Fox Island Technician class next weekend with 16 signups. Hal is sponsoring the class

November 2022

K7LED Relay

9am-5pm, \$15 donation requested, Test is free, \$35 FCC fee for Tech and upgrades are free. Contact Daniel for signup instructions. No class for November yet which may move to December due to location issues. Extra class is in the works, which maybe in Ballard or Kent depending on availability of venue.

Mike & Key ARC – Board Meeting via Zoom - Meeting Notes

Date/Time: November 1, 2022, 19:15 Pacific

Attested to by Carl Reynolds, Secretary

Participants

Phil Pia, K7PIA (President)
Steve Cook, KD7IQL (Vice President)
Carl Reynolds, N7CJR (Secretary)
Scott Gilyeat, KC7SAG (Treasurer)
David Okrent, (Interim Activities Manager) Absent
Hal Goodell, N7NW (Radio Officer)
Robert Abbott, KF7RWA (Trustee #1)
Jason Nierenberg, KJ7GLB (Trustee #2)
Jeff Kenner, W7GPG (Trustee #3)
Manfred Bester, AG7NR (Trustee #4 - Board Chair)
Jay Jones, AE1J (Trustee #5)
Mike Dinkelman, N7WA (Relay Editor)
David Smith, KB7PSN (Webmaster)
Michael Hansen, KG7MX (Volunteer Counsel)
Jim Kiniry, KE7JIM
Mark Holt, W7EAZ
James Wraalstad, WQ7H

Agenda:

Call to Order (19:15 Pacific)

Establishment of quorum (Carl, N7CJR)
Approval of previous Board meeting minutes: Motion & 2nd
by Steve and Jay 100%

Reports

Facilities (Jay AE1J): Contacted St. John the Baptist Church in Kent for possible new meeting location but was contacted by email that there are no meeting times available during the weekends. Jay has made several attempts in contacting new manager of the Renton Salvation Army with no response. However, Steve got a call from SA and confirmed the meeting day and time.

Chairman of the Board (Manfred, AG7NR): No report

President (Phil, K7PIA): No report.

Vice President (Steve, KD7IQL): New membership applications: Jeremiah Pope, NE9Z, which was approved.

Secretary (Carl, N7CJR): No Report.

• Show & Tell – None

Adjournment – Motion for adjournment Jason and Tim
2nd. Meeting was adjourned at 11:01am

Treasurer (Scott, KC7SAG): 2023 Budget presentation. 291 active members including 6 new members approved last meeting. Scott gave membership, budget and expense reports, which are in order.

Activity Manager (David W7DAO,): Not present

Radio Officer (Hal, N7NW): Tiger Mt had a scheduled power outage on 17 October. The notification was sent to Jack, so no one got the notification. Power was restored, but the 2M repeater didn't come back on. Worked normally on batteries for some time. Steve and Hal discovered it wasn't working when power was restored. Randy, W3RWN, had a spare power supply; Steve, KD7IQL, and Dean, N7XS, went to the mountain and replaced the power supply; need to reimburse Randy for the power supply (\$750); Randy also donated a 24-V power supply, 2 UHF repeaters and 6 multiplexer cavity filters to the Club

Standing Committees

Technical & Special Interest (Jason, KJ7GLB): Nothing to report.

Public Service (Jeff, W7GPG): Nov 5 Veterans Day, Auburn, Dec 3, Santa Parade Auburn Seafair. Holiday cruise/Seattle Marathon

Education & Training (Robert, KF7RWA; Daniel, KL7WM): Held class on Fox Island, 12 candidates passed the tests; online tests and in-person tests coming up.

Membership (Manfred, AG7NR): Received notice that Alfred Mannings KI7IXS became a Silent Key and will discuss during committee meeting on 3 Nov along with updating the application form.

Facilities & Publicity (Jay, AE1J): See above.

Repeater (Hal, N7NW): Process with transfer of the site lease from PSRRG to Mike & Key ARC for Tiger and Gold Mountains is underway; Hal will be signing the lease transfer paperwork for both sites ("Voluntary Lease Assignment and State's Consent to Assignment"); Mike & Key did not yet visit Gold Mountain; Michael, KG7MX: Would like to see the lease paperwork; Advises not to sign a lease; Hal, N7NW: We have two options: Go through with the transfer or let go of the lease; PSRRG had a lease with WADNR for 30+ years; if the lease is terminated then the Club would be liable for removing the equipment;

November 2022

K7LED Relay

consensus was to table the discussion until we have the lease paperwork on hand

Publications & IT Support

Relay Editor (Mike, N7WA): Keep articles coming 11 Nov deadline for articles.

Web Master (Dave, KB7PSN): No report.

Essential Committees

Audits: N/A

Awards (Dave, KB7PSN): NA.

Finance: N/A

Strategic Planning (Manfred, AG7NR): Held committee meeting 2 weeks ago. Notes will be distributed to the committee; discussed strategic planning topics such as

EmComm and repeaters.

Event Committees

Swap Meet: Mike N7WA, Processing incoming checks from vendors and endorsed with existing stamp. Labels / postcards ordered, registrations coming in daily. Next meeting on 11/8/22 next meeting.

Field Day (David, WA7DY): No report

Picnic (Hal, N7NW): No report

Old Business:

None

Contact Us:

Email: info@mikeandkey.org

Message Bd/Reflector: <https://groups.io/g/mkarc>

Website: www.mikeandkey.org

Officer contacts info:

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

Postal Address:

P.O. Box 4234

Renton, WA 98057-4234

The club website includes extensive information about our activities, events, VE testing, membership, past editions of the Relay, and more.

New Business:

Club budget for 2023 was reviewed and changes made to include expenditures for banquet, repeater site expenses. PSRRG will transfer funds to Mike and Key ARC. Scott will send out updated version. Jim explained the budget letter explaining budgetary numbers/balance.

Scott, KC7SAG, will not be able to support the next General Meeting; Carl, N7CJR, will step up to run Zoom; Jason, KJ7GLB, will be available as well.

Michael, KG7MX, will contact Lynn Burlingame, N7CFO, to confirm Club's 501(c)(3) status

Hal, N7NW: Received notice from Secretary of State to complete the annual report

Jim, KE7JIM: Draft letter to notify the Membership about the budget proposal was sent to Scott, KC7SAG

Good of the Order

None

Action Items

None

Next Meeting

December 6 , 2022, 18:45 Pacific (remotely via Zoom)
Adjourn

Adjourned at 20:35

The Mike and Key ARC is an ARRL affiliated club dedicated to the growth and betterment of Amateur radio. The annual dues are \$12 for individuals and \$18 for families. Visit our website for meeting, membership, and other information

