



K7LED Relay



Volume 52, Issue 10

Mike & Key Amateur Radio Club – Seattle

October 2024

Celebrating October Members

By Scott Gilyeat, KC7SAG, Treasurer

As of October 2024, 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.

(Life Member, 25 years or more with the Club)
(Anniversary Certificate)

Years

54	Pete Hedberg	K7WTG
54	Charles Stroehrer	WA7EBH
52	Jim Christiansen	K7ND
28	Brenda Doss	No Call
26	Rita Danielson	KD7CNU
24	David Mitchell	WA7DTM
18	Tokuzo Okumura	AD7JA
15	Ted VanTuyl	N7HKL
6	Michael Silva	K7DSL
5	James Boardman	K7NC
5	Jay Jones	AE1J
4	John Endres	KJ7KSX
4	John Keeling	W7JDK
4	Dave Martinez	KI7VLV
4	John Sambrook	KJ7RDV
4	Carl Sjoberg	KV4ZX
3	Jeff Hussey	AK7JH
2	Wayne Cavanaugh	KA7CEE
2	Dennis Krinke	KK7HXX
2	Jiro Oi	KW6A
2	Steven Oi	NV6A
2	Marty Smith	KK7DAW
1	Jeffery Orgill	KJ7AAI
1	Scott Wepler	KG7EUS

President's Report

Carl Reynolds / N7CJR

President

When one ponders on the subject of real estate, 3 words come to everyone's mind. Location, location, location! Well, I've pondered the subject of clubs to include amateur radio and I'll bet you know what my 3 words are going to be. Yes, participation, participation, participation! I'm writing while thinking and the 3 words might be overtaken by inflation, inflation, inflation.

A growing amount of time in board meetings is spent talking about how to reduce costs and increase funding without impacting services to our members. Anyone who's been involved in clubs of any kind knows reducing operating costs and increasing member participation weigh heavy on club leaders. That being said, on the membership side, I'm very confident with the high quality and dedication of those who contribute and participate and that success will continue well down the road. We have a great pool of both long-time members and new blood. Paying dues grants you the ability and opportunity hold office or chair a committee. This is a great way to bring new ideas, activities, etc into the club which is critical for growth.

On the financial side, we are facing increasing cost for everything. And I mean everything. Money saving ideas are always welcome as we're researching grant opportunities through ARRL to help fund our club operations and outreach.

As you might have heard, the southeastern US has gotten hit by back-to-back hurricanes Helene and Milton. And amateur radio has again showed to be invaluable. Please lend a hand if

you are able anyway you can. National Preparedness month just flew by and I hope we have inventoried our

own supplies and equipment to better enable us to reach out and help others when the need arises. Winter is that much closer.

The Renton City EM coordinated Technician class on the 9/16th of November has been cancelled due to a notification snafu but it looks like Daniel Stevens KL7WM is holding a class on the 16th/23rd of November.

Chuck Benefiel N7STR Silent Key

Charles ("Chuck") Benefiel, call sign N7STR, passed away on August 11, 2024. Chuck was a past President (1997-1998) and Pop Brown Award winner (1999).

Repeater News

Steven Cook / KD7IQL
Mike & Key ARC Radio Officer

I have three projects that I would like to get done next year 2025.

Project 1

Replacement for the steel tower support cables, where possible, with Phillystrand. To replace old steel cable and to reduce noise.

Project 2

Remove old coax cables and abandoned antennas from the towers.
To cut down on wind load on the towers.

Project 3

Repainting the top of the structure. To prevent corrosion.

The next project is a long-term project that will start in 2025 and will be completed in 2027. This will be the moving of the Mike and Key repeater frequency to a narrow frequency allocation.

The time from 2025 to 2027 will be utilized for making sure that users have configured their station to the new frequency and mode setting.

In 2027 we will move to the new frequency. More to come on the projects as we get closer to the dates.

Salmon Run 2024 Experiences

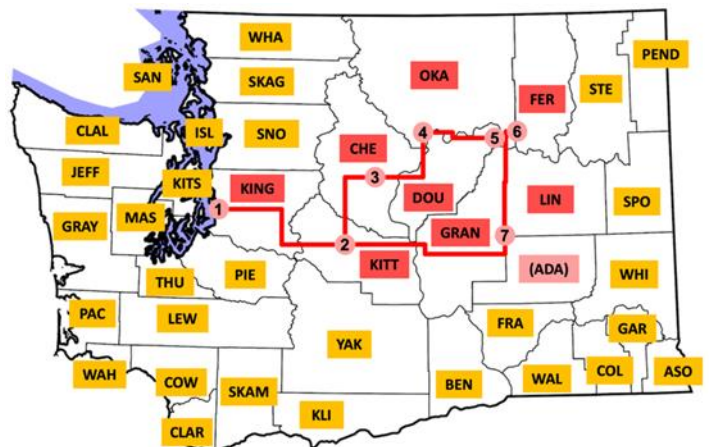
Manfred Bester / AG7NR

For this year's Salmon Run my roving plan included locations in Eastern Washington for the first time.

I started on Sept. 21, close to home in King County (1), to verify my mobile station was working before venturing out farther.

Following operating locations were in Kittitas (2), Chelan (3), and Okanogan Counties (4). After staying overnight in Pateros, I made my way to Steamboat Rock State Park Crown Point in Douglas County (5) (POTA US-3274). Driving along the Columbia River on US-97 and WA-17 in the early morning was very pleasant. Apple orchards were laden with fruit, ready to be harvested.

Next, I drove via WA-174 and WA-155 to the Ferry-Okanogan County Line (6) on Peter Dan Road near Elmer City. Being a relative newcomer to Washington, I had never seen the Grand Coulee Dam - a truly impressive installation.



My 2024 Salmon Run tour covered 8 counties with 2 operating locations on county lines (FER/OKA and LIN/GRAN). (Raw map credit: Wikimedia)

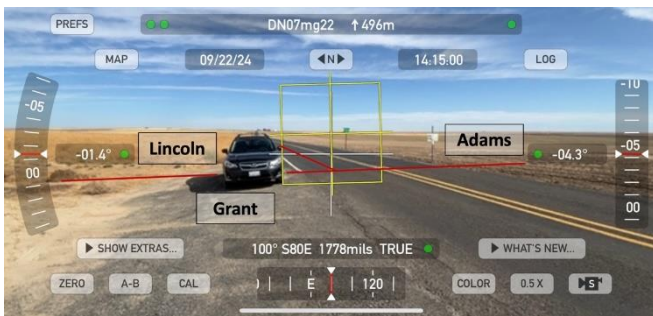


Early morning scene at the Columbia River in Pateros, Okanogan County.

My last operating location (7) was at the Lincoln-Grant-Adams Tri-county intersection, running with LIN/GRAN/ADA exchanges.

However, playing it conservatively in compliance with MARAC rules for county line operations, I removed ADA log entries prior to log submission which still resulted in 192 valid LIN/GRAN QSOs.

The original plan that I should have followed was to work Lincoln-Grant and Grant-Adams County Lines separately from opposite sides of Davis Road. I had researched detailed information from multiple sources and convinced myself I knew where the intersection was. No markings for Adams County were found at this location.



Lincoln-Grant-Adams Tri-county intersection. Red lines indicate county boundaries, based on multiple sources. A change in pavement on Davis Road was clearly visible halfway between the Lincoln and Grant County signs. No markings for Adams County were found at this location.

This was my fourth Salmon Run. My goal had been to achieve 500 unique CW QSOs. Overall, I logged 542 with 77 multipliers (23 WA counties, 43 US states, 5 VE provinces, 6 DXCC entities). After working W7DX for bonus points, my claimed score in the mobile CW-only category was 125,702 - a significant improvement over my scores in previous

years (2022: 81,749, 2021: 56,660, 2020: 34,904). More CW practice and higher solar activity were apparently helpful. QSOs by band were 1 (80 m), 146 (40 m), 142 (20 m), 228 (15 m), and 25 (10 m). With 600 miles driven, my net operating time was 10.2 hours, spending between 1.25 and 2.5 hours at each location.

My QSO partners with 10+ QSOs were N7IR (17), K9CW (13), and N5OT (11). A total of 30 DX QSOs across four bands (40/20/15/10 m) were made with DM3ZF, F5NKX, F5TVG, F6GCP, F8PDR, HA1AG, JJ1RZG, JR1NKN, OM2VL, and RZ1OA. Many thanks to all stations who responded to my calls!

My mobile configuration was based on my setup in 2022, but with some antenna upgrades (FT-891/FC-50, 100 W; aluminum mast sections and cap hat for 15 m, loading coils for 80/40/20 m; quarter wave steel whip for 10 m). The newly built 80-m coil needs more work to make antenna tuning practical, given its very narrow bandwidth. Over a year ago I already had converted logging from Fldigi on a MacBook to N1MM+ on an Acer Windows 11 laptop.



Aluminum mast (2.25 m) with cap hat, resonant on 15 m (no loading coil).



Loading coils for 40, 30 and 20 m, made from Banjo polypropylene fittings and silver coated copper wire.

Trustee Report

Robert Christian KJ7CBO Trustee #2

Florida Hurricanes bring lots of concerns even for our Pacific Northwest. Recently I did pose a question on one of the nets on K7LED repeater "are you prepared for a disaster" was the question. Many said they were. Battery power, and or the ability to still operate under the most adverse conditions.

Having a Battery pack is surely one vital part of it. That is why it is so important that all of us stay in the loop on how to communicate and how to render aid when and if we are called on to render aid.

As with the Recent Hurricane that hit Ashville, we know that ham radio operators in that area and many outside that zone have come to the rescue yet again. When local law enforcement is not able to communicate for whatever the reasons maybe, We have a vital tool to use and we all need to be trained to not just help those who need it, but to help others beyond just communication.

It is not "if" but "when" some of our local mountains like Mt.Adams, Mt.Rainier rumble to life and put many under threat.

This is not a good thought, right? I think joining ARES or Cert or other groups could be a good thing.

Let's do our part and support each other. This next year Plans are being made for a cool event that for many, will tie all this together. Let's rock it Mike and Key!

Swap Meet Changes to Policy and Procedures for the Mike and Key Country Store in 2025

*Bill Swickard / KK7KCN
Country Store Chairperson*

A very valuable resource, particularly for Swap Meet Volunteers, is the Country Store (CS). Each volunteer can leave an item or items at the Country Store and expose them to a very wide customer base without renting a table in the Swap Meet proper. Having worked at the company store last year, I can tell you it is a busy place to be most of Friday and Saturday. Plus, we sell the items for you, collect the money, process and record the intake/ outtake, then pay you for what you have sold at *no cost to you*. All except what you choose to donate to the club goes back into your bulging pockets.

Catalyst behind the changes: The awesome volunteers in the CS are not salespeople, per se, and we want to remove that burden on them that rarely results in a higher price than the lowest accepted one. These changes will also streamline our operation to process sales more quickly, giving you potential for more sales. We want to put more control into the sellers' hands with these changes. I am informing you of these positive changes early so you can think about what price you want to set for each or multiple items, as well as what you want to sell within these new policies.

Changes to the Consignment Process and Form:

First, let me say these changes discussed here ONLY apply to the CS procedures, only to volunteers and not to the other Swap Meet policies. Some of these changes are still in-work. There will be similar policy and procedure changes for non-volunteers, including a single price.

There will only be one price, initially, on the form and on the tag for each item. Previously, there have been two – the initial price you want to start with and the

lowest price you will sell for. That is gone, but we will still offer an opportunity to negotiate the price.

Your phone number becomes the link to negotiating a price. The form has included your phone number for some time, but we have been reluctant to provide it to a potential customer without your express permission. This year, there will be a permission box to mark “yes” or “no” indicating your choice of sharing your number to a prospective buyer for the purpose of permitting a price negotiation. There will be a confirmation process for us to verify that the seller is the one who is changing the price, but that is still being pondered and developed. The simplest answer is “no.”

We are making a confirmed procedure so that a volunteer seller with the **proper paperwork in-hand** can deliver items to the company store in two ways:

Using the normal vendor method through registration where the vehicles park at the loading dock area, items are loaded onto pallets and re-positioned up to the CS by volunteers.

Volunteers displaying a volunteer badge with items for sale are positioned by the seller directly to the CS using a hand cart, wagon-type carrier or any other method that safely moves around the crowd during the event (not by pallet jack). This can be done anytime the doors are open to volunteers. This makes more room for vendors and saves volunteer time, so that you can get back to volunteering.

NOTE: Many items are sold on Friday afternoon/evening, and Saturday morning. There is a marked advantage to being set up in the CS as early as possible, whichever way you choose.

The forms will be changing along with several other developing procedures. I have hit the high points of the ones that will affect you the most. You can save yourself time by waiting to fill-in and print the consignment forms until they have a 2025 date on them. Prior year forms will not be accepted.

Thank you to those who will volunteer in the CS this next year and after! It is much appreciated and not possible without your help.

Next month: “The Importance of CS **Donations** to the Mike and Key Bottom Line.”

Running with the Salmon 2024

David Okrent / W7DAO

This year I decided to change my usual routine of fixed campsite operations from Ocean’s Shores to expedition. I planned a route heading north on Saturday to Ross Lake then to Wenatchee and back to Seattle on Sunday. My goal was to open Okanogan County and time permitting on Sunday work other counties as I head back to Seattle.



Driving from Ross Lake my plan was to periodically stop along the way to operate 20m SSB from my minivan and then to go picnic bench portable for 40m and other bands once I was in Okanogan County. As some of you know I have a NMO mount with a 3/8x24 adapter on the roof of the car to accept my 16-foot telescoping whip. I have a 16’ counterpoise zip tied to the roof rack. Well, having not driven that northern route in a very long time, I forgot that most of the route runs through some rather narrow valleys. As a result, I made very few contacts on 20m at three quick stops, plus 20m was rather noisy.

I stopped at Alta Lake State Park near Pateros, WA and got started on picnic bench portable operations.

I set up a quarter wave vertical with 16 radials (aka the Porcupine Box) and began scanning on the noisy 20m band. I still didn’t make



many contacts and switched to 10m, which was pretty much dead. Time to switch to 40m.



I had brought a loading coil with me to add to the vertical whip, but I left it in the car and being lazy, I defaulted to a quick look on 40m using the ham stick in my antenna pack. First, 40m was so much quieter and I quickly began making contacts. Second, if it isn't broken, leave it alone; the loading coil didn't leave the car. I operated there for a bit reaching as far west as Island County and Pacific, then I packed up to head to my hotel room in Wenatchee. I did make a note to self to spend a few camping days at this park sometime, maybe for 7QP instead of Yakima this year.

Off to Wenatchee, which I haven't been to since before Covid, I was last there for an American Red Cross conference. Unfortunately, I accidentally ate at the same steakhouse I did last time, which I remembered after I got my meal, I had never wanted to eat there again. I gave them an A+ for consistency, it was still subpar. Oh well.

The Sunday morning plan was to operate out of Wenatchee and then stop here and there to work from two other counties enroute to Seattle, but this didn't go as planned. Shortly after waking, I



developed a minor medical issue and had to address it. After a bit of a delay, I was able to operate from Confluence State Park on

the Columbia River for a time again 40m being my best band for contacts. However, since I was concerned about the potential for a recurrence of my issue I decided to head straight back to Seattle. Thankfully, no recurrence happened, and all is well now.

Lessons learned. I enjoyed the more scenic route via Ross Lake, but next time I will run a more direct course to Alta Lake State Park to maximize my time there. This year I couldn't leave Friday, but if I can next year, I will camp overnight at Alta Lake to get an early start on netting some running Salmon. I will still overnight in Wenatchee, avoiding a certain steakhouse, and after operating from Confluence Park, I'll set up a quick connect/disconnect counterpoise for 40m for the car to support periodic stops to operate in other counties on my return leg.

What was my score? It's not very high, but I don't go for points, just fun. After about 1-2 hours of operating, I need a break from the RF noise; therefore, I'm not a "go for the award" contester. I am more the "how far can I get my 20- or 100-watt light bulb shine given my antenna" kind of operator.

Mike & Key ARC – General Membership Meeting Minutes

Date/Time: September 21, 2024, 10:00 Pacific
Meeting Place: [Kent Senior Center, 600 East Smith, Kent, WA](#)

Attested to by Jeanne Yearian, Secretary

President, Carl Reynolds, N7CJR: Call to Order (Pacific) 10:00AM

Presentation: Ted Edwards, W3TB & G0PWW, Contesting and DXing with OCF Antennas

Vice President Paul Petach, KI6QXV: Verified a quorum is present.

Approval of 08/17/24 General Meeting minutes: Motion made by Gil, W7GIL; Second: Ross, W7ROV. Minutes approved with no dissention.

Agenda:

Reports

President (Carl Reynolds, N7CJR): No report.
Vice President (Paul Petach, KI6QXV): New membership application: Devin Hamilton, N7IQZ. He was approved by the General Membership with no dissention.

Secretary (Jeanne Yearian, KE7MES): No report.

Treasurer (Scott Gilyeat, KC7SAG): Welcome to the new member. Current active membership count is 308. Reminder: Please pay your dues to keep current. Membership training credits are available for those who have taken Daniel Stevens' (KL7WM) class. Check the website for current payment options.

Activities Manager (Ross VanDeen, W7ROV): Are there topics you would like to see covered? Be sure to contact Ross. Winter Field Day will be covered next month.

Radio Officer (Steven Cook, KD7IQL): There are 4 projects (work parties) lined up next year at the Tiger Mountain repeater. Dates and times to come.

Standing Committees

Technical & Special Interest (Robert Christian, KJ7CBO): No report

Public Service (Robert Grinnell, KD7WNV): This is the season for public service events. More booklets for the 2024 Public Service Event Season are available.

Education & Training: (Jeff Hite, N7FCC; Daniel Stevens, KL7WM): No report

Membership (Manfred Bester, AG7NR): No report

Facilities & Publicity (Alex Malesis, W7AEM): No report
Repeater (Steven Cook, KD7IQL): No report

Publications & IT Support (Scott Gilyeat, KC7SAG): No report

Relay Editor (Mike Dinkelman, N7WA): Keep the great articles coming in.

Web Master (Scott Gilyeat, KC7SAG): The Club library (books, equipment) has moved to the storage unit. A listing of the items available is online. Equipment checkout forms are now on the website.

Essential Committees

Audits: (Sam Sullivan, N7RHE): No report
Awards (Presenter: Dean Holtan, N7XS): No report
Finance (Scott Gilyeat, KC7SAG): No report
Strategic Planning (Manfred Bester, AG7NR): No report

Event Committees:

Swap Meet (Mike, N7WA): Report and next scheduled meeting in this month's Relay.
Field Day (David, WA7DY): No report.
Picnic (Hal, N7NW): Thanks to everyone who turned out. Appreciate everyone who helped out.

Old Business: N/A

New Business: N/A

Good of the Order:

Mike, N7WA: The Salmon Run is this weekend. Also brought in tomatoes.

Dawn, KC7YYB: Brought apples from Cashmere, WA.

Dan, N7QHC: Needs some coax. Gregor, NW7GO offered to help out.

Carl, N7CJR: Repeater round-up on Nov. 23/24.

Carl, N7CJR: David, Okrent, W7DAO held a license training class. Upcoming Renton ECS Technician class at Renton Technical College on Nov 9 & 16.

Robert, KJ7CBO: National Sasquatch Awareness Day on Oct. 20. The special event station of Radio Club Tacoma needs operators for 1x1 callsigns.

Carl, N7CJR: Planning to write a grant to cover expenses for a repeater on Gold Mountain. Would appreciate help. Contact Carl via email.

Welcome to Visitors: James, KK7UXB; Scott, N1AIA; Belinda Frederick, N3PAJ; Jim Devin, N7IQZ: Still taking applications for Tour de Forest Rally on Oct 5. See his QRZ page for details.

Next Meeting: October 19, 2024, 10:00 AM Pacific at the [Kent Senior Center, 600 East Smith, Kent, WA](#)

Adjourn: Vote to adjourn at 11:55 AM. Motion made by Robert Abbott, KF7RWA, and seconded by Scott Gilyeat, KC7SAG. Motion approved with no dissent.

Mike & Key ARC – Board Meeting via Zoom
Date/Time: October 1, 2024, 19:00 Pacific
Attested to by Jeanne Yearian, Secretary

Participants:

Carl Reynolds, N7CJR (President)
Paul Petach, KI6QXV (Vice President)
Jeanne Yearian, KE7MES (Secretary - not present)
Scott Gilyeat, KC7SAG (Treasurer)
Ross VanDeen, W7ROV (Activities Manager)
Steven Cook, KD7IQL (Radio Officer)
Jeff Hite, N7FCC (Trustee #1)
Robert Christian, KJ7CBO (Trustee #2)
Robert Grinnell, KD7WNV (Trustee #3)
Manfred Bester, AG7NR (Trustee #4 - Board Chair)
Alex Malesis, W7AEM (Trustee #5)
George Thornton, AE7G (Volunteer Counsel)
Mike Dinkelman, N7WA (Relay Editor, Swap Meet Co-chair)
Hal Goodell, N7NW (Repeater Committee Co-chair, Swap Meet Co-chair)

Agenda:

Call to Order (19:00 Pacific) by Manfred, AG7NR
Establishment of quorum (Paul, KI6QXV, standing in for Jeanne, KE7MES): We have a quorum.
Approval of previous Board meeting minutes: Motion made by Paul, KI7QXV, seconded by Ross, W7ROV. Motion passed with no dissention.

Reports:

Chairman of the Board (Manfred, AG7NR): Missed the last General Meeting due to participating in the Salmon Run.

President (Carl, N7CJR): No report

Vice President (Paul, KI6QXV): Received four new membership applications: Alan Frost (WW7OCX), Bruce Collins (N6TOE), Gregory Von Schleh (N3GMV), Martin Perkins (KK7VCD). All were approved to move to a vote of the membership at the next General Meeting. NOTE: Bruce Collins (N6TOE) withdrew his application after the meeting.

Secretary (Jeanne, KE7MES – not present): No report.

Treasurer (Scott, KC7SAG): Active membership roster: 307. No unusual expenditures. Paid Tiger Mountain lease; Gold Mountain lease comes up in spring. No unusual expenditures. Books are in order.

Activities Manager (Ross, W7ROV): Proposed a presentation at an upcoming General Meeting by Scott Honaker, N7SS (WWARA) about the proposal to move towards narrowband VHF/UHF repeater channels (see below).

Radio Officer (Steven, KD7IQL): Visited Tiger Mountain, had an access issue with a padlock that WA DNR fixed. Submitted paperwork for repeater frequency coordination with WWARA. WWARA plans to change repeater channel spacing to create more channels for additional 2-m repeaters ([see online document](#)). No wideband system will be renewed in 10 years. Steven's recommendation is to start transitioning over to a new frequency and narrow bandwidth within 3 years. All users will have to reprogram their radios for new frequency and bandwidth settings. Will need to discuss with the membership.

Standing Committees:

Technical & Special Interest (Robert, KJ7CBO): No report

Public Service (Robert, KD7WNV): Few public service events still coming up.

Education & Training (Jeff, N7FCC): Nothing new to report. Some new online classes are coming up. Committee could help with converting radios for the narrowband transition

Membership (Manfred, AG7NR): Plans for the holiday party needs to be discussed with the Committee.

Facilities & Publicity (Alex, W7AEM): No report

Repeaters (Steven, KD7IQL): See above

Publications & IT Support:

Relay Editor (Mike, N7WA): Relay articles are due on Friday, Oct. 11.

Web Master (Scott, KC7SAG): Manfred, AG7NR still needs to provide updated content for the Strategic Planning Committee web page.

Essential Committees:

Audits: N/A

Awards: N/A

Finance: N/A

Strategic Planning (Manfred, AG7NR): Will start a meeting series in November to develop strategic plans for the 2026 Swap Meet and beyond (roles and responsibilities, staffing, alternate options for the venue, expenditures and revenues).

Event Committees:

Swap Meet (Hal, N7NW; Mike, N7WA): Discussed and reviewed the 2024 Swap Meet expenditures and revenue. The Board approved an increase of admission ticket prices from \$12 to \$13 for the 2025 Swap Meet to cover increasing costs related to the WA Fairgrounds facility rental. Prices for tables, sellers and helpers will be the same as in 2024.

Field Day: No report

Picnic: N/A

Old Business:

Policy #24 - Membership Benevolence Fund: Discussed and streamlined the wording of a new policy for the newly created Membership Benevolence Fund, as provided by George Thornton, AE7G, Volunteer Counsel. Motion to approve the new policy by Scott, KC7SAG. Seconded by Carl, N7CJR. The motion passed with no dissention.

New Business:

Paul, KI6QXV: Reported that the Seattle Yacht Club has been holding amateur radio classes for mariners for some time. It was suggested that their members should be invited to our meetings. We could offer technical advice or assistance with antenna installations on their boats. Paul will send contact information to Ross, W7ROV so he can take the lead.

Paul, KI6QXV: Reported that the Gig Harbor Library is holding free amateur radio license classes. Our Club should contact the library to find out more and possibly create a liaison.

Good of the Order:
None

Action Items:
None

Next Meeting
November 5, 2024, 18:45 Pacific remotely via Zoom (no change in meeting date/time/location)

Adjourn
Motion to adjourn by Ross, W7ROV; Seconded by Robert, KJ7CBO at 21:25 Pacific. The motion passed with no dissention.

Swap Meet – New Blood

Michael / N7WA

I don't think anyone can deny the importance of our Swap Meet to the financial well-being of the Club. That said, a lot of the knowledge for running the event is stored in the heads of just a few people.

The Board and the Swap Meet Committee are looking to record the details needed for running the event. We also need new people to start assisting in the running of some of the committees. Simply having the details documented without experience behind it isn't going to make it go smoothly.

Personally, I have been involved in running Registration, first assisting Diane and lately by myself, for over 25 years. If I get hit by a bus, it's going to be hard to recover. I don't even need to get hit by a bus. My life has changed a lot in the past 6 months and I am looking to do other things. It's time for others to step forward.

Keep this in mind as we move forward.

Swap Meet Updates

Michael / N7WA

Swap Meet 2025 is rolling. We had our first meeting on Tuesday, October 8th

Completed:

- We are sanctioned by the ARRL
- Labels are ordered
- Database is functional and pre-registered vendors (63!) are entered. That is 66 tables

and 7 booths already spoken for. That's down significantly from last year.

Action items:

- We need a chair for Hospitality. Maybe you would like to volunteer?
- Flyers to be ordered
- By the end of the month, invoices to be sent out to those pre-registered and flyers to everyone else who came last year.
- Volunteer signup web site to be made operational by November Club meeting.
- Order tickets
- Next meeting is 2nd Tuesday in December.

Additionally, there will be a meeting to discuss the future of the Swap Meet. The demographics of the Amateur Population is changing. The environment in which we operate is changing. Events, like ours, are becoming rare. The meeting will be held the 2nd Tuesday of November at 7PM on Zoom. November 12th. All are welcome.

Credentials: 824 3973 8543 and 027689

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.

The Mike and Key ARC is an ARRL affiliated club dedicated to the growth and betterment of Amateur radio. The annual dues are \$20 for individuals and \$30 for families. Visit our website for meeting, membership, and other information

