



Presidents' (Current & Former) Corner

There's been heavy discussion over the few running the Fireworks Sale for the many, and for the funding that this brings the club. Most of you will know that I tried mightily to personally enlist extra help this year, telephoning or leaving vmail to everyone in the Port Angeles / Sequim area with a listed phone number. And for a long day's work I got two mebbe three (depending upon subsequent events); some were genuinely unable (spousal caregivers, the too-frail, &c), but a few just didn't seem to care....

So here's my predecessor K6MBY's words on the subject:

The clubs budget this year is Approximately \$2800. Our income from dues was About \$1900. Can you see why your club need a fundraiser?

The people that were at field day this year from from beginning to end were Sheldon Koehler, Doug Welcker, Thomas Clark, Bob Sampson, Herm Halbach, Bruce Reiter, and Chris Icide. A day later on Monday most of that same group, Sheldon Koehler, Doug Welcker, Thomas Clark, and Bob Sampson began to put together the fireworks tent. There are over 300 man hours required to support this annual fundraising event. Five or six people is not nearly enough to cover those man hours. There were many open slots and nobody to cover the night security duty. The fireworks organizers, Sheldon Koehler and Thomas Clark, concluded it was too late to shut down and we needed to go ahead with the fireworks sales.

Our president, Glen Kilpatrick, was tasked to get on the phone and call Members to seek support for the clubs only annual fundraiser. Glen was able to find a few to fill some of the daytime spots, however, none of the nighttime security spots were filled. Members were busy, members had not heard of the fireworks fundraisers, some members did not believe in the sale of fireworks.

As I write I have spoken to a number of other board members regarding canceling further fundraisers as five or six people are not enough to support these events.

There are several expenses in the Club budget that the board could recommend be removed. As an example \$400 is in the budget for field day food. \$300 is in the budget for a Christmas party. Those items could be removed and members wishing to attend these events would be asked to pay an amount to cover the cost of the event. The bylaws define the Clallam County amateur radio club as a social club, however, and these two items would not be good to remove.

The Board could recommend cutting other things out of the budget to get down to next year's projected income from dues. Any future repeater expansion, if approved by the membership, would require a dues increase. We don't need to put money in the budget for trailer maintenance. The board could ask for donations at the time of needed maintenance. We don't need to put money in the budget for repeater maintenance. The board could ask for



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donations at the time of required maintenance.

Yes there is money in the bank that could be used for the maintenance. That money is in the bank, however, in case of a disaster should we need to rebuild Striped Peak as an example. If it was necessary to rebuild Striped today with new parts, it is estimated that \$15,000 would be required. \$15,000 is the current estimate to build the proposed Ellis Peak site.

The Board could recommend leaving all the expenses in the budget and require a one-time assessment (each budget year) from each member to make up any shortfall between the budget and regular dues income. This year, as an example, each member would be asked to pay approximately \$14.00 to make up the shortfall.

So the focus has shifted from fireworks sales to the budget shortfall; offline discussions are ongoing. As there's little urgency for the summer, it would appear that there may be some discussion at the July meeting, but significant at the August Board meeting, and that followed by decisions to be made at the August General Membership.

Glen KJ7KLC
CCARC 2022 President & Newsletter Editor

P.S. With the caveat that while my sources seemed to agree, there were entries that didn't seem to be in the club database & didn't have FCC-issued callsigns..., here's the "Honor Roll" of the CCARC hams who did assist (with non-ham spouses summed to their hams), ranked from high to low [I'm omitting hours because of

possible mistakes on my part, because everyone who actually contributed (& I could associate to a callsign) gets a mention regardless, and because I'm not entirely confident of getting the same answers twice...]:

N7DWU WA7EBH N7OZZ
N7XEI K6MBY WB4KGY
N7JPW KJ7OTW AA6FE
KJ7KLC N6NJZ KF7JQV

Thank you all.

This edition's fillers all come from pre-war Ukraine <https://pxhere.com/en/photos?q=ukraine&search=> and to show its beauty and danger ([Chernobyl](#)). PxHere is one of a handful of sites to offer everything [CC0](#) – no constraints on reuse, to include no need to even provide attribution.





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Board Meeting Minutes

{ no Board Meeting in July }





Clallam County Amateur Radio Club

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Club Meeting Minutes

June 8th, 2022 at 1900
Via Video Conference

Attending (16 total approximately 1917):

Members and Guests: Herm W7HRM, Tom N7DWU, Jeff Foro WA7HDY, Bill AC0ED, Chuck N7BV, Doug Welcker WB4KGY, Lee N7KC, Ralph W6EJE, Rik WX7RIK, Roger K7RGR,
Board: President Glen Kilpatrick KJ7KLC, VP Vacant, Treasurer Rosemary Day KI7MZH, Secretary Jeramey Johnson KF7PMC Chairman Sheldon N7XEI, Directors: Bob Sampson K6MBY, Thomas Clark N7DWU.

Approximately 1859 Called to Order by President Glenn.

Officer Reports:

- Approve, amended Minutes for May, M: Tom, 2nd: Bob Sampson, approved unanimous by members present.
- President: Proposed Vice President Bill AC0ED
- Treasurer: Deposit since last meeting \$ {withheld}; New Balance \$ {withheld} (up to today) outstanding \$ {withheld}; Savings \$ {withheld}; Memberships 84 members.
- COB: Fireworks and Field Day discussion.

Committee Reports:

- 2M Net (Lee) average about 27 call-ins on the net. Always looking for net operators. Weather Net went for 13 months, averaged 12 call-ins – cancelled until more interest with net operators.
- Herm: North Olympic Discovery Marathon 1,200 full marathon participants. Very busy and crawlers came through about an hour after the main group.
- Chuck N7BV – 7th Area QSO Party well attended.
- Field Day: Upcoming – Sheldon is making brisket.
- Public Relations – need a committee for publicity/public relations. Discussion about providing pre-written copy and photographs.

Old Business:

- Upcoming Field Day planning and assignments– Sheldon will be in touch.

- Ellis Mountain Repeater: (Bob K6MBY) DNR still in holding pattern for DNR site leases.
- Repeater (Bob K6MBY): New equipment for Gunderson (Bridgecom repeater/controller) underwritten by Forks American Legion – target installation for June 15th with a rebuilt antenna, formerly from Striped Peak.

New Business/Announcements:

- Approve Board vote for Jeramey KF7PMC to fill Treasurer Rosemary KI7MZH remaining term motion by Bob K6MBY, 2nd Rosemary and Herm approved unanimously.
- Tech Team mileage reimbursement Tech: Team Mileage Reimbursement at the then current IRS mileage rate for trips in support of the Club's repeaters and equipment. Approved unanimously by members present.
- Bill AC0ED will take lead on Public Relations and write copy for field day.
- Education and Training discussion by Glenn KJ7KLC. WX7RIK Ares discussed licensing perhaps discuss with Glenn about re-starting licensing.
- Fireworks Duty – Tom; contact Tom for signup and questions. June 27th – July 4th
<http://olyham.net/fireworksSignup>

Breakfast, Saturday 11th of June at 0900 Pricilla's Cruise-In Café (Port Angeles).

Program Presentation {*postponed due to the lateness of the hour*}

Meeting adjourned at 2001, M: Jeramey KF7PMC, 2nd: Sheldon N7XEI

#

Respectfully Submitted,
Jeramey Johnson, KF7PMC
Secretary

{ *Editor's Note: Repetition of the May edition (for minor corrections) omitted* }

An Application for APRS/GPS

One of the first and perhaps least expensive accessories for Hams is APRS. I encountered APRS years ago and have remained mesmerized by its use. Sure, Hams have complained that APRS is used only for finding your car. However, the system is quite powerful; I suck at the more advanced features. Below is a map of my recent road trip to Dead Wood, SD, as obtained from <http://APRS.FI> [using a unit from] <http://www.byonics.com/> (Figure1). My daughter (KC0YVX) uses APRS to track her old man when I'm traveling. I'm putting a unit in her vehicle shortly. However, this idea only scratches the surface. I think you will love GPS once you get your APRS working.

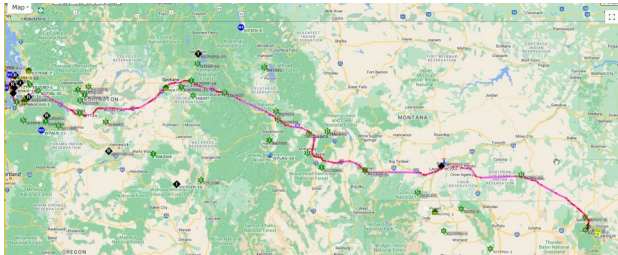
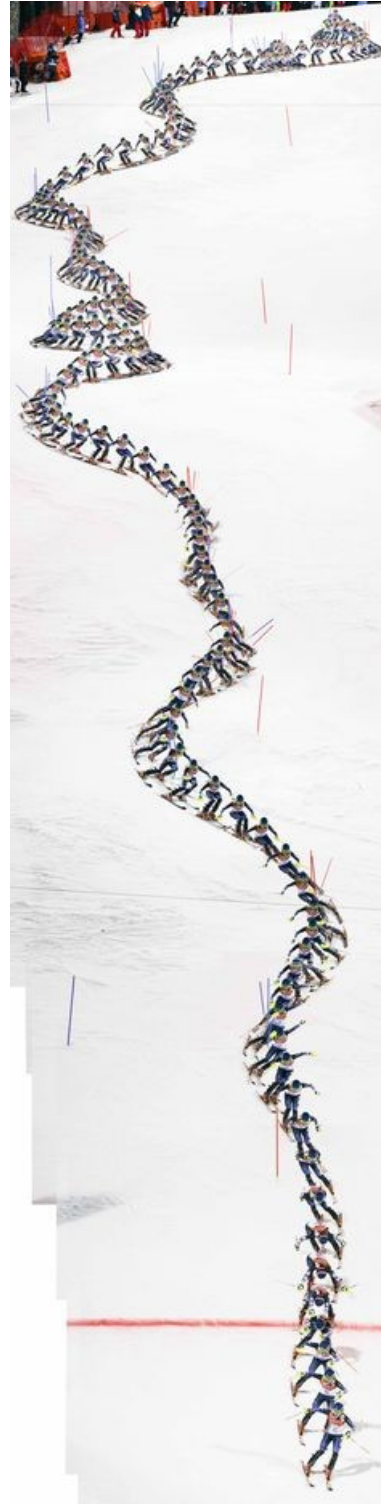


Figure 1. APRS trip to Dead Wood, SD

While I was working at the USA Ski and Snowboard Association in Park City, UT, I was tasked with trying to come up with a means of tracking alpine skiers during a race. Alpine ski races can extend from less than a mile to over two miles. Therefore, the importance of monitoring the skiers should be pretty obvious; the line on the slope the athletes use, their placement on the slope, and how they manage turns, jumps, and gates can mark the difference between winning and losing (Figure 2).

Figure 2. A stroboscopic idea of what we wanted. This approach worked for slalom, but not downhill or super-G because of greater distances and times when the skier was behind a hill or other terrain. Also, no numbers.



In the past, a coach would climb up the canyon facing the course with a video camera and long lens. Then he typically had to climb a tree to find a good line for the video. The coaches then analyzed the videotape, searching for the best line of travel for speed and stability. Unfortunately, the process was abandoned because of a lack of funds, few willing to volunteer to do the climb, and the long, tedious nature of reducing the images to anything useful.

I looked into radar. I knew from military friends that radars were used to scan the perimeters of military bases. The radars could easily detect humans up to a dozen or more miles away. I tried several companies, all interested at the start, and then bailed. They wouldn't even return my phone calls.

Intel was interested in working with us on halfpipe competitions. They wanted a system that would record speeds and heights and used AI to name skills based on GPS data from snowboards. They brought a whole cadre of engineers and software brainiacs to several competitions. They wanted to show off the capabilities of their new "AI" chip. Calibration was performed using traditional kinematic methods, including reflective markers on a couple of athletes and high-speed video through a shorter and known course section. Unfortunately, as engineers are prone to do, they got all concerned about the "what if" and "as long as we're here, why don't we"? I tried to bring them back to earth at my supervisor's request. I had to warn them that they were so busy trying to get into the "little things" they lost track of the "big things." All we wanted was the position and speed of the skier. They were trying to push the technology (which isn't even available anymore) to do too much. Ultimately, they packed up and went home, having failed. They failed to consider the depth of the halfpipe and how it wreaked havoc on GPS reception, and their transmitters were flaky.

We still couldn't tell anyone where a skier was or how fast they were moving. But, of course, if you

know the one, you can derive the other. But unfortunately, the pesky skiers refused to wear any GPS device, including just carrying their phones.

So, I tried to flank the problem. First, I built some small GPS units using an Arduino Uno in a small Pelican case. The unit fits in a skier's jacket pocket. Then, with help, I recruited some skiers (not competitors) to ski the run with the GPS units [see] Figure 3.



Figure 3. GPS unit with Arduino Uno

The GPS data comes in at 2 Hz, too slow for skiing, but it was all I had at the time. I spent months trying to find a higher sampling rate. Unfortunately, the coding required knowledge of interrupts which was at the edge of my understanding. Fortunately, I still got usable data. After the lat/lon data were placed in an ASCII file, I only had to translate lat/lon to UTM (Universal Traverse Mercator). There are programs on the internet that will take lat/lon data and automatically convert it all UTM. You can code the conversion yourself if you're brave, but I was lazy. I was only trying to do a "proof of concept."

The data are in 3D (X, Y, and Z). So you'll need to think in 3D to make sense of the information. For example, the graph below (Figure 4) shows the 3D data of the Olympic Alpine Course at the Pyeongchang South Korea Olympics. Interestingly, I spent a fair amount of time working this out to get everything automated, and then the "powers" lost

interest. But, of course, manipulating the “course” image was easy after data processing.

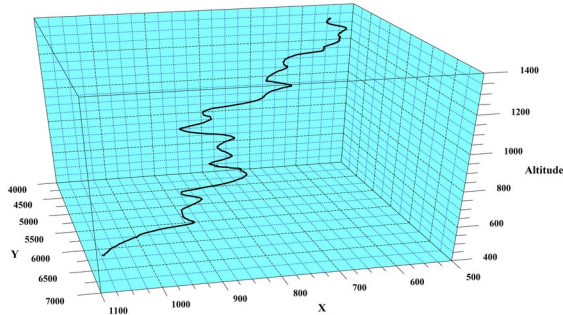


Figure 4. Alpine course Pyeongchang South Korea. All values in meters.

The approach was changed to a POV (point of view) video. I designed and built the helmet mount for the first round of measurement. Almost immediately, a company produced a 3D camera that only had to be carried [see Figure 5]. Sheesh. The camera was pricey but provided some nice video for mental rehearsal of the actual ski run. You have to remember that Olympic sports rarely have enough money to go out and buy something.



[Figure 5. Helmet camera mount]

APRS does a lot more than provide latitude and longitude. Unfortunately, I’m too dumb to get the other stuff to work. I want to learn how to use the digital capabilities of APRS for sending messages and thus provide another route for emergency comms. I foresee that the agricultural folks might like a 3D map of their fields, maps of the placements and reach of repeaters, and in search and rescue. Monitoring people during a race and maintaining contact with people in the mountains or the ocean could be very important. Fortunately, these already exist if you have the money.

Sidebar: When I dropped off my truck in Salt Lake City for a repair, the folks there didn’t know about my APRS. Someone drove my truck around and to their house for reasons that were. I showed the map to the people there and sang them a four-letter aria I don’t think they’ll ever forget. It was interesting to hear the excuses that were drummed up.

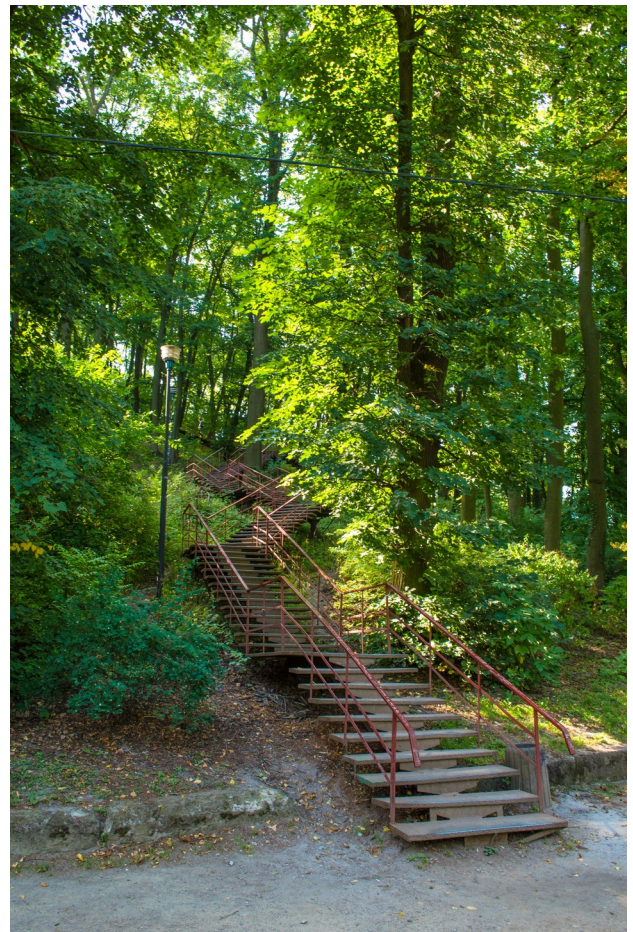
I’m trying to keep these articles short. If you have any questions – don’t hesitate.

Bonus: This is Mikaela Shiffrin [see Figure 6], who I’m sure you’ll recognize from Beijing 2022. She was in the lab to check on using a Yo-Yo-type leg conditioner device I first saw in Doha, Qatar. First, she pushes down the device, and a metal disk spins and unwinds a cable attached to her harness. Then, the disk winds up as she reaches the top of her motion and the device pulls her down, emphasizing the movement’s downward, impact, or eccentric portion. She has some electromyographic electrodes on her thighs, so I could see the amount of nervous system involvement in her effort. Mikaela is an outstanding and lovely young lady – a champions’ champion.



[Figure 6. Olympian Mikaela Shiffrin enjoying a Yo-Yo-type leg conditioner]

Bill ACOED





Rosemary Day KI7MZH Her radio adventures – and a little more...

Rosemary was born in Anchorage, Alaska. While living there she experienced the Good Friday magnitude 9 earthquake of 1964. She remembers sitting in church with her mom and brother when things started swaying. She said it lasted about five minutes but seemed more like an hour. Quite a day!

Rosemary moved to the Seattle area in 1968. She worked as a medical laboratory technician for a large multi doctor clinic in Federal Way for twenty two years. While at the clinic, she earned a reputation as a highly skilled phlebotomist and soon had a devoted patient following – some who specifically requested their blood be drawn by her.

Rosemary moved to Port Angeles in 2008 and remained in the same house she is currently leaving. Her passion for gardening is easily seen if you ever had the chance to see her yard. It is populated with many lovely and varied flower beds and shrubs as well as several flowering trees.

By 2017 Rosemary was ready for a new challenge and recalled that her father, although unlicensed, enjoyed listening to amateur radio. Radio seemed like an interesting pursuit so she decided to take an amateur radio license class through CCARC. She successfully obtained the technician ticket and was off and running. Her technician license was soon followed by a general class and finally the extra class.

License in hand, and with the generous assistance of several club members, up went the antennas. A hex beam and a 40/80 meter dipole served her needs. For radios, Rosemary had a Yaesu FT950 for 10-80 meters and an Icom 706 she devoted to 2 meter work.

Rosemary quickly became immersed in Clallam County Radio club activities. She served as secretary for three years and did a nine month stint as treasurer. She also chaired the fireworks committee for two years. Rosemary enjoyed attending the monthly YL luncheons as that was one more opportunity to talk with other club members. She also participated in two field days before covid temporarily called this activity to a halt. Rosemary enjoyed contesting on 15 and 20 meters. Her furthest contacts were in Australia and New Zealand. Perhaps one of her most amusing exchanges was during a 7QP contest when an eleven year old boy from Montana was so excited to contact her, thinking she was another kid given her youthful voice!

On June 24th Rosemary started a new adventure. Friends helped load her belongings into a 15 foot u haul truck and she headed east in route to Russellville Kentucky to live with one of her daughters and granddaughter. She is looking forward to new experiences and trying new things as well as exploring the Russellville area with her granddaughter. She will be looking for an amateur radio club to join and continue her radio passion. She has already located three radio clubs in the Russellville area and looks forward to becoming involved in some of their activities.

Rosemary welcomes all Port Angeleans traveling to the Russellville to stop by and say hello.

We all wish her the best in her new adventure.

73, Paula Bond K7PAB

{ Editorial note: Rosemary might be reachable at her former contacts of 360- 824-1250(c) & rosemaryday2000@yahoo.com }



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Officers and Board Members

- President (& Newsletter Editor) [Glen Kilpatrick KJ7KLC](#) 503-776-0877
- Vice President { TBD }
- Secretary & Treasurer [Jeramey Johnston KF7PMC](#)
- Membership { TBD }
- COB [Sheldon Koehler N7XEI](#)
- 2nd Year [Bob Sampson K6MBY](#) 360-477-0776
- 1st Year (& Inventory Manager) [Thomas Clark N7DWU](#) 719-238-8576
- Trustee [Clif Keely AA6FE](#)

Nets, Frequencies, &c

- CCARC Net every Thursday at 7:00 pm on Striped Peak Repeater 146.760 minus with tone 100 Hz
- Clallam ARES Net Tuesdays at 7:00 pm on Striped Peak Repeater 146.760 minus with tone 100 Hz
- “The Watering Hole” SSB Net daily at 5:30pm Port Angeles 28.450 (USB)
- Olympic Peninsula DMR Sunday afternoon 4:30 pm Talk Group 31531 on K6MBY DMR or WF7W DMR or KC7EQO DMR or your local hotspot
- WF7W Port Angeles 145.310 minus tone 100 Hz
- KC7EQO Blyn Lookout 442.100 plus tone 100 Hz
- K6MBY/W6MPD 444.900 plus K6MBY (Sequim) tone 131.8 Hz or W6MPD (PA) tone 107.2 Hz

New Members

- "Lorem ipsum..."

Items for sale

- "Lorem ipsum..."

Items wanted

- "Lorem ipsum..."

Announcements

- "Lorem ipsum..."

