



CLALLAM COUNTY
AMATEUR RADIO

QTC
NOVEMBER 19

BV RAMBLES:

My thanks to Rosemary KI7MZH, Nita KE7DRT Bill K7WWP and Joe KG7JWW for their inputs to this newsletter.

Rosemary and Dennis and their crews succeeded in putting up their Hex-beams in October. The weather cooperated for the most part, little cool in the morning and as the sun was going down.

This general meeting we will hear from the Dennis and Rosemary about their builds and how the antennas are working. I was flat out amazed at how well these antennas can be tuned closed to ground.

From: "ARRL Members Only Web site" <memberlist@www.arrl.org>
Date: Thu, 17 Oct 2019 13:56:14 -0400 (EDT)
Subject: Special Bulletin: ARRL to Launch New On the Air Magazine in January

Newington, CT – October 17, 2019 – ARRL, the national association for Amateur Radio® is launching a new magazine, On the Air, in January 2020. To be published on a bimonthly basis, On the Air will offer new and beginner-to-intermediate-level radio amateurs a fresh approach to exploring radio communications. Each issue will include advice and insight on topics from the variety of Amateur Radio interests and activities: radio technology, operating, equipment, project building, and emergency communications. The goal of this new magazine is to be a vital resource in helping new and newer radio amateurs get active and involved in radio communications.

For further information see the ARRL.org website and search special bulletin. Or see <http://www.arrl.org/arrlletter/?issue=2019-10-24>

Hoping you all have a special Thanksgiving Day 2019.

73, Chuck N7BV

REMEMBER: **November nominations for officers for next year.**

"SOME PEOPLE LIVE AN ENTIRE LIFETIME AND WONDER IF THEY HAVE EVER MADE A DIFFERENCE IN THE WORLD. A VETERAN DOESN'T HAVE THAT PROBLEM." RONALD REAGAN

AMATEUR RADIO LICENSE CLASS

See page 9 for details of the November 2 exam.

**Chuck Jones N7BV
ARRL VE-L**

**General Meeting
Program**

Dennis, AD7TV and Rosemary, KI7MZH will review their Hex Beam installations and how they are working out.

TREASURER'S REPORT

Checking Acct. 9,514.34

Savings Acct. 3,039.51

Total \$12,553.85

Joe Edwards KI7RBS
Treasurer CCARC

There are 97 paid members of the CCARC

CCARC QTC Newsletter

Just a little background on the QTC.

We use ccarcqtq@yahoo.com as a repository for information for the newsletter. So if you have something for the QTC, please send it to the yahoo address. Do not sent it to one of the editors as they will just have to turn around and resend it to the yahoo address.

Please make sure the article or information is complete. As we rotate editing the newsletter you cannot be sure which editor will be piecing the newsletter together.

Please remove as much formatting from within whatever program you are using if you know how, before sending it to ccarcqtq. We do not edit, except to change fonts to a standard non-serf font (Arial which is easier to read than Times Roman). We will run a spell checker.

When first conceived the editors were given free license, it still is that way. It was understood they would endeavor to include everything submitted, within reason. For instance, off color jokes etc. are not going to be printed. Thanks,

**Have an idea for a club program?
Pass them along to the members of
the program committee.**

Thanks.

2 METER NETS

CCARC :
Every Thursday 7:00 pm on the W7FEL Repeater.

ARES/RACES:
Every Tuesday except 1st Tuesday of the month at 7:00 pm on W7FEL Repeater.

W7FEL Repeater: 146.76 MHz, offset down 600 KHz. with a tone of 100 Hz.

CCARC Board Meeting 11-4-19

Present: Cori VZZ, Jeannine WVD, Ross WVG, Sheldon XEI, Joe RBS, Rosemary MZH, David IMN, Mike AQB.

Meeting opened at 7:05 by Cori.

Board meeting minutes approved as published in the QTC.

Treasurers Report: Checking account \$9514.34. Includes check from Forks Hospital. 97 Active members.

Q and A next week at Ham Meeting.

Program for next week: Dennis and Rosemary will have presentation on their Hex Beam installations.

Sheldon on Geochron world map clock.

Keys for gates at Striped Peak were given to Mark E. for safe keeping by Doug W.

Christmas Party: 7th or 14th at Smugglers Landing, Sheldon will confirm dates, trying for the 7th.

David M: ARES will conduct exercise next month called Snowarmageddon. If power fails best to have a princess type phone to plug in as battery operated ones will not work.

Meeting Closed at 7:50 p.m.

Respectfully submitted,

Rosemary Day KI7MZH
Secretary

CCARC Ham Meeting 10-9-19

Meeting opened at 7:04 p.m. by Vice-President Sheldon Koehler.
Pledge of Allegiance

Minutes approved at published in the QTC.

Joe reported 95 active member. Check account \$6951. Savings \$3040.

Committee report: COB Jeramey discussed Shack Tours, volunteers to show Ham Shacks. Doug and Dennis volunteered.

Jeramey proposed a 5 Minute Tech Talk, sign up sheet at Meetings. Input for developing programs, more meaningful programs. Elmers to respond to questions at each meeting.

Christmas party: Conflict with Sheldon for Saturdays in December. Discussed Christmas Party at a restaurant. Sheldon will check it out.

Repeater: Chuck S. said waiting on Gunderson to put up tower for antenna, no cement poured. Gunderson probably won't be finished till spring as technical committee heads south.

Equipment: Bob noted information in QTC. We will hear more testing on levels in equipment. Levels are not optimal.

Rosemary purchased a Hex Beam and brought in to show to members.

Meeting was adjourned to set up presentation by Cori, and assembly on Slim Jim for members to participate in.

20 members 1 guest.

Respectfully Submitted,

Rosemary Day KI7MZH
Secretary

Hex Beam

After trying to compete in the Salmon Run contest, I was so disgusted that I ordered a G3TXQ Hex Beam kit from KIO Technology for 20, 15, 10 meters. Wind surface area 5 square feet. Gain 5.5 dBi free space peak. F/B >20 dB peak. Weighs about 26 pounds and 22' wide.

It arrived in two boxes, and I spent time reading the instructions. I spray painted the spreaders as the instructions recommended. Putting it together was easy. I placed the base on a 1 inch pole and had the beam set up in about 4 hours.



Chuck J. donated a push up 30 foot mast that Mark refurbished for me. I put up a 12' 4x4 post that attached to my house.

I decided to have the rotor at the base of the mast and Mark refurbished a CDE Ham 3 for me. His friend manufactured a tilt over and upper support for the mast to attach to on the post. The mast is held in place by a thrust bearing at the top of the 4x4 post.

Figuring out how to hang the guy lines while the mast rotated was a bit of a challenge. The three guy connections are stationary on discs with plastic sleeves under them courtesy of Dennis.

The instructions recommended raising the mast with the guy lines and adjusting them in place. There are 9 guy lines holding the mast in place. The mast was lowered and the hex beam was installed.

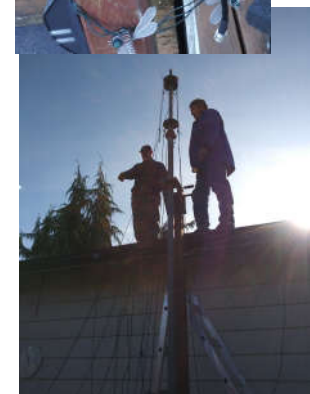
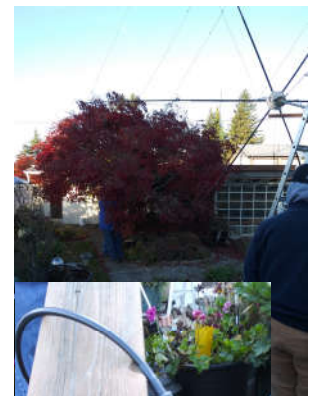
The coax was attached to the center post of the beam and a slip-on feed line common mode line isolator, using 5 beads, were attached at the feed point and in the shack, as is now recommended.

I freaked out as they raised the Hex Beam before anchoring the guys down. Not fun to watch it wobble 40' up in the air!

A new ground rod was installed at the foot of the mast.

The guys spent all day setting up the hex beam. Trying to attach the beam to the mast and keep it out of the maple tree was fun!! It takes two people to push up the mast and bolt each section into place.

I want to thank Mark and John E, Joe E, Dennis, Chuck J and Mark's friend Chuck for getting my Hex Beam up and running.



I didn't realize how much technical and physical work was involved in setting up an antenna.

Am going to contest next weekend. Let you know how that goes. Propagation still stinks, but I now have the option of rotating the beam. Did hear Italy on my first start up.

If you would like to see my antenna setup, please feel free to stop by.

73 Rosemary KI7MZH



The way it was

Paul Honore W6IAM

It's November and time for licensing classes and examinations. A little more than fifteen years ago, I enrolled in a CCARC class to study for my Technician license. I had earned a ham license in 1949 when I was in High School. Things were different then. Entry level was General Class - Morse code (Continuous Wave) only. I traveled by train to San Francisco where an FCC official administered a Morse code proficiency test followed by a written examination on electrical theory. Several weeks later I received notice that I had passed. I had to wait another year before being allowed to advance to the next level. I studied for the requisite year and passed the Advanced Class examination allowing AM (Amplitude Modulation) phone privileges. On graduation from high school I joined the Navy as a Radioman, transferring my rate to Electronic Technician and was assigned to a repair ship, often tasked to repair equipment aboard U.S., Japanese, Chinese, French and Italian Navy ships during the Korean War. My experience building ham radio equipment made it easy to recognize familiar electronic "building blocks" common to all, regardless of differences in language and construction. After my discharge from active duty I married my college sweetheart. Busy with a civilian job and raising a family, I let my ham license expire, never expecting to take up the hobby again.

50+ years later my world shattered with the 9/11 attack on the "Twin towers" and the Pentagon. I began to think about how I might serve in some kind of emergency capacity. My amateur radio experience came to mind. With the encouragement of my wife, I decided to renew my license. Boy was I in for a surprise. Everything had changed from the vacuum tube and tuning capacitor days. Transistors, microchips, personal computers smart phones and "Alexa" were science fiction, perhaps possible at some future time but not then. No one anticipated how close the future was. Back then, most oscillators were of the Colpitts (crystal controlled) variety. Crystals were relatively stable whereas VFO (Variable Frequency Oscillators) drifted in frequency with changes in temperature and supply voltage. Transmitter output stages incorporated resonant "tank circuits" with huge, expensive amplifier tubes that often required special techniques to stabilize their behavior.

Instead of being fabricated entirely from individual components, today most circuits are formed by layering patterns of exotic materials one atop another to form microchips no bigger than a thumbnail, Oscillator frequencies are digitally synthesized and phase regulated to eliminate drift, Tuning capacitors have been replaced by optical encoders. Frequency shift teletype has been replaced by a dozen or more computer generated audio - tone modes. A thousand other innovations have advanced communication light years ahead of anything imagined when I earned a living as a technician. It was as if I had stepped out of a time machine into the future. It was intimidating. I reasoned, however, that no matter how different the present state of equipment may be, the laws of physics had not changed all that much and I decided to forge ahead. Starting over, I studied

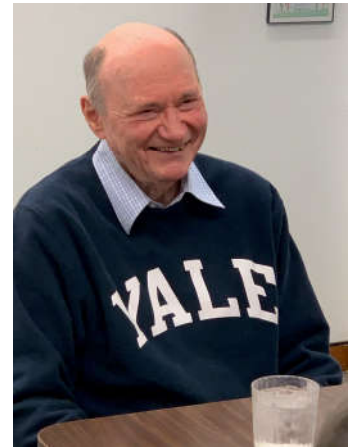
for my Technician license, upgraded to General and then Extra Class, joined ARES, took the requisite ARRL and FEMA courses in emergency communication and was appointed Resource Coordinator.

Sometimes I think wistfully about the old days but then I remember how it really was. Transmitting frequencies were limited to the crystals at hand. You plugged one in, called CQ and searched around the band for a reply. If your transmitter had a VFO you had to start warming it up as much as an hour before transmitting and you had to keep re-tuning as it drifted off frequency. Receivers were separate and primitive. There was no DSP (Digital Signal Processing) and no digital readouts. Frequency was determined by calculating the difference between dial readings and marker signals generated by a crystal oscillator. High end receivers such as *Hammarlund* and *Hallicrafters* were more sensitive and selective but out of reach for most hams. The less affluent of us tried to get hold of a surplus military receiver capable of operating on the ham bands or we opted for one of the kit receivers available and assembled it ourselves. Many trusted kit suppliers have disappeared from the market place but there are newcomers such as *Elecraft* that compete well with commercially fabricated equipment. They are not as easy to assemble with today's miniature components and multi-pin circuit chips but they offer an opportunity to experience some of the satisfaction of building your own equipment and using it on the air.

You newcomers to the hobby are lucky. You can enjoy affordable, off the shelf equipment that is stable, efficient and worry free. Whether you choose to buy or build, you will benefit from the tremendous advances made and still being made in the science of radio, advances brought about by a fusion of analog and digital technology. Too bad many of you are too young to have witnessed the miraculous changes in technology as they occurred. I missed them too because I was asleep for half a century like Rip Van Winkle and awoke in a strange and unfamiliar digital world. It will never again be the way it was but that's okay. I may be "over the hill" but I am still learning.

STRAYS STRAYS STRAYS STRAYS

Congratulations to Dennis AD7TV on his 80th birthday on Sunday 10 November. Happy birthday and many more!!



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Ever wish there was something you could do for sore ears after running a net or sitting an extended time at Field Day? Well there is; try ear buds, not only will you be rad like the younger generation, your ears won't hurt. This little known fact has been used in contesting for years. Recently there has been some talk about "C. Crane CC Buds-Pro Full Stereo in-Ear Earbud Headphones - for Audio Books and Voice Clarity".

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Picture from the latest VE exam session. 15 persons took the exams (total taken 18); new licenses earned 14; Extra = 2, General = 4, Technicians = 8. One person did not achieve a license.

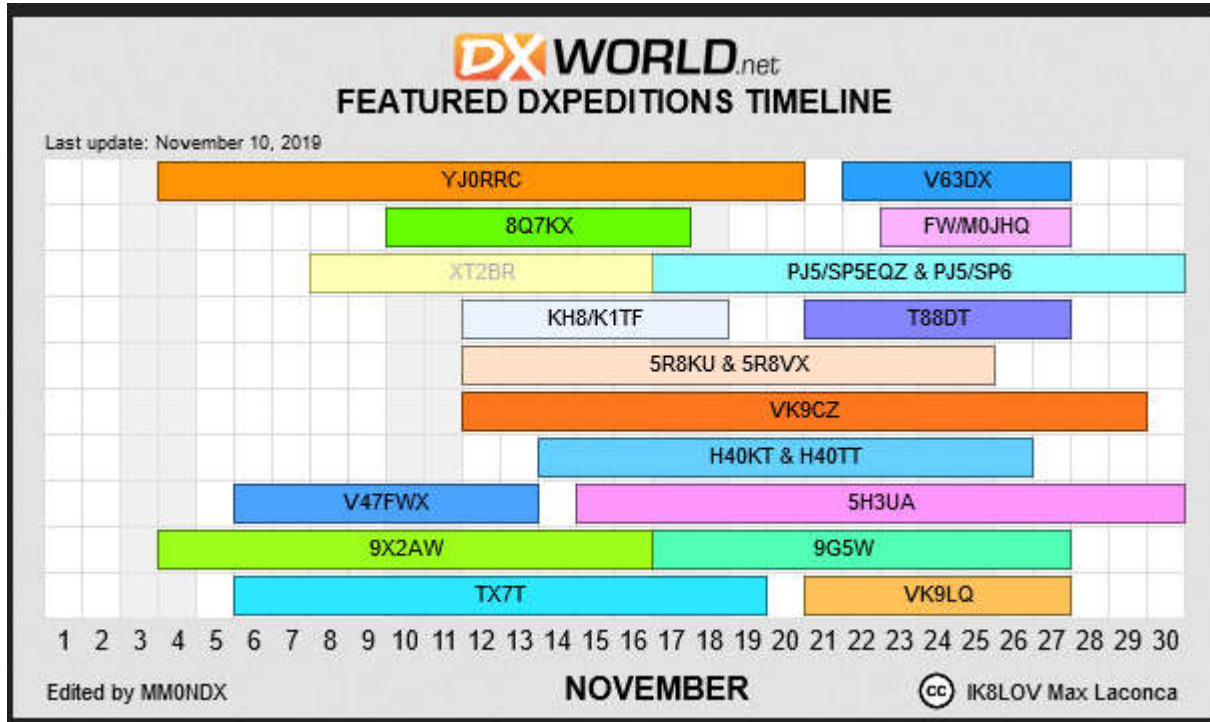
Thanks to our examiners: Bill Mc W6JEQ ; Bruce KD7WBM, Clif AA6FE; Cori Rice KF7VZZ; David Melvin; Dennis AD7TV; Bill K7WWP; Jim K7QCK; Paula K7PAX; Ray & Linda; Steve N1SB; Rosemary KI7MZH; and our trainers: Dennis AD7TV; Jim K7QCK; Rosemary KI7MZH; Cori Rice KF7VZZ; Bill K7WWP; Chuck S WA7EBH; Lee N7KC

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REMEMBER: November nominations for officers for next year.

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The following DXpedition monthly chart is FREE to download from DXworld.net an online DX news service.



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ED Note: Last month I chased the PITCAIRN ISLAND DXPEDITION, VP6R for an All Time New One (ATNO) for me, mainly I wanted a 160m QSO, however I only QSO'd on 20 and 15 meters. Heard them on 160m S5 but just couldn't crack the pileup. Sigh! Check out <https://pitcairndx.com/> for inside info and history to the mutiny aboard the Royal Navy Vessel HMS Bounty.

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REMEMBER: November nominations for officers for next year.

Space Weather News for Nov. 7, 2019

<https://spaceweather.com>

<https://www.spaceweatheralerts.com>

SIGNS OF LIFE FROM THE NEXT SOLAR CYCLE: The sun is currently in the pits of a century-class Solar Minimum. However, the quiet won't last forever. This week, a sunspot from new Solar Cycle 25 appeared on the sun and unleashed a minor solar flare. These are signs that Solar Cycle 25 is sputtering to life, heralding a new Solar Max in the years ahead. Visit today's edition of Spaceweather.com (<https://spaceweather.com>) for the full story.

GARAGE SALE:

LP-100A Digital Vector Wattmeter

Comes with two Couplers and two matched pair of coax cables.

Worked when last checked.

\$175

Call my home, leave a message (too much spam).

360-681-4375, or my cell if you have it.

Bill, W7WEC



CCARC Standing Committees

Field Day: Sheldon Koehler N7XEI

Health and Welfare: Nita KE7DRT

Membership Chair: Joe Edwards KI7RBS

Net Coordinator: Cori Rice KF7VZZ

Public Relations: Jeannine C Tyler

Publications (Newsletter): Chuck Jones N7BV,

Technical Committee Coordinator: Doug Welcker, WB4KGY, Bob Sampson

K6MBY, Bill Peterson K7WWP

VE Education and Training: Chuck Jones N7BV

Web Site Administrator: Bill Peterson K7WWP

CCARC Special Committees

Roster: Joe Edwards KI7RBS

LIKE TO VOLUNTEER?

COME  BUILD

HOMES WITH US

Receive the joy that comes from helping others while giving yourself a gift of social connection, health benefits, and a psychological boost.

For more info visit: www.habitatclallam.org

Or call 360-775-3740



NEXT YL Luncheon

December 13
Cedars at Dungeness
1965 Woodcock RD
Sequim

Find us on the web at
www.olyham.net
Check it out. Lots of
information about ham
radio in Clallam County!

2019 - CCARC Ladies Luncheon Schedule

Reservations are made for 11:30 -
 2nd Friday of each month

**December - Cedars at Dungeness - 1965 Woodcock Rd. -
 Sequim**

Description	Time/Date	Location	Contact
Clallam County ARES/RACES meeting	7 pm, 1st Tue of every month	Clallam County Courthouse EOC, 223 E. 4 th St., PA	
Clallam County Amateur Radio Club general meeting	7 pm, 2d Wed of every month	Port Angeles Fire Station 5th and Laurel, PA	
Clallam County Amateur Radio Club social breakfast	8 am, 1st Sat of every month	Bi-Monthly Joshua's Restaurant, PA & Mariner Restaurant, Sequim	
Clallam Country Amateur Radio Club YL social lunch	11:45 am 2d Fri of every month	Rotates - announced on Thursday night Net (See QTC Newsletter)	

[CC-ARC Welcomes new member/s:](#)

NFI

CLUB OFFICERS For 2019

President: Ross Tyler KI7WVG

Vice President: [Sheldon Koehler, N7XEI](#) 360-670-4799

Secretary: Rosemary Day KI7MZH 360-457-6895 rosemaryday2000@yahoo.com

Treasurer: Joe Edwards KI7RBS 360-808-5282 ki7rbs@gmail.com

Board Chair Person: Jeramey Johnson, KF7PMC

Board Member: Cori Rice KF7VZZ 360-912-2395 kf7vzz@gmail.com

Board Member: Jeannine C Tyler (360) 460-4236 weblairs@olypen.com