



CLALLAM COUNTY  
AMATEUR RADIO  
CLUB

QTC  
JANUARY 18

HI All.

As the new year comes in it brings in all the changes for the year. I am really enthused about things the club wants to accomplish this year.

With this we need members support and input to be able to do it all successfully. At the meeting this Wednesday we will be reviewing committees and forming them to accomplish our goals as a club.

In the news letter there is a list of committees that we usually have. Take a look at them and see if there are any that you would like to be on, Then you could email me or just volunteer at the meeting.

I am looking for your input on committees, activities, Field day, Fireworks, Programming and anything club related so that we can be doing things that members really want to be doing. Looking forward to this next year.

Dennis and I will be checking out the club equipment including coax and anything that could have an impact on the Field day performance. I am looking into copying the trailer tower and if I can get it done I would be able to bring it to field day to add to our abilities.

On a different note, The flu is becoming very active this year. The experts say that the flu shot is only 10% effective this year. Dennis's family has been rather hard hit by it. I hope all is well with all of you.

73, Mark K7MAE  
[gossamer765@gmail.com](mailto:gossamer765@gmail.com)

## Get Your License Here!

**We gave 62 passing Exams in 2017!**

**A big thank you to our VE Team, both during Exams and Training Session**

**Chuck N7BV  
ARRL VE-L**

## February Program

Panel discussion on HR Rigs and Antennas with focus on individual selections, and how it turned out. Members can bring their HF for other members to see and touch.

We need articles for the QTC newsletter. This is your newsletter.

Tell us how you became interested in Ham Radio. What did you do over the summer (just like school) huh!

Did you put up a new antenna, buy a new radio? Tell us about it.

Did you try a new mode again tell us about it.

The more you submit the less blank space we will have!

Thanks, the staff!

## 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-serif 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.

**W7RJW "Net" Working**

Some local nets to listen in on/participate in. This is one good way to learn how we communicate on the airwaves as amateur (ham) radio operators. I spent a year just listening to a couple of these nets and how experienced operators talk to each other, before I even tried for my Technician license. It REALLY helped me a lot. I strongly recommend doing this on a regular basis. Enjoy!

Sunday:

LDS (Latter Day Saints) Emergency Net (you don't have to be a member to participate) 6pm on 146.760

Monday:

Elwha Emergency Net 5:30 pm On 146.760  
WARA (West Coast Amateur Radio Association)  
Club Net (Victoria, BC Canada) at 7pm on 146.840

Tuesday:

ARES (Amateur Radio Emergency Services) Net  
7pm on 146.760 (except for the first Tuesday of the month, when ARES meets at the Clallam County Courthouse)

Wednesday:

WARA (West Coast Amateur Radio Association)  
Emergency Net 7pm on 146.840 Simplex Net immediately following: on 146.580

Thursday:

CCARC (Clallam County Amateur Radio Club) Net 7pm 146.760

W7RJW Rebecca J. Winters  
CCARES Net Control Coordinator

**What's new on Ham Nation?**

<http://twit.tv/hn>

Check out the new format.

**Have a cup of coffee, relax and watch one.**

**FOR SALE or TRADE**

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**Brain Teaser**

Kangwa, Rafael and Ferdinand plans for gun fighting.  
They each get a gun and take turns shooting at each other until only one person is left.

History suggest:

Kangwa hits his shot 1/3 of the time, gets to shoot first.

Rafael, hits his shot 2/3 of the time, gets to shoot next if still living.

Ferdinand having perfect record at shooting(100% accuracy) shoots last , if alive.

The cycle repeats. If you are Kangwa, where should you shoot first for the highest chance of survival?

**Treasurers Report December 2017**

## WD-40 Uses

What Is The Main Ingredient of WD-40?

Before you read to the end, does anybody know what the main ingredient of WD-40?

No Cheating.....

WD-40 ~ Who knew!

I had a neighbor who bought a new pickup.

I got up very early one Sunday morning and saw that someone had spray painted red all around the sides of this beige truck (for some unknown reason).

I went over, woke him up, and told him the bad news.

He was very upset and was trying to figure out what to do....

probably nothing until Monday morning, since nothing was open.

Another neighbor came out and told him to get his WD-40 and clean it off.

It removed the unwanted paint beautifully and did not harm his paint job that was on the truck.

I was impressed!

WD-40 who knew?

"Water Displacement #40".

The product began from a search for a rust preventative solvent and degreaser to protect missile parts.

WD-40 was created in 1953, by three technicians at the San Diego Rocket Chemical Company.

Its name comes from the project that was to find a 'Water Displacement' Compound.

They were finally successful for a formulation, with their fortieth attempt, thus WD-40.

The 'Convair Company' bought it in bulk to protect their atlas missile parts.

Ken East (one of the original founders) says there is nothing in WD-40 that would hurt you.

When you read the 'shower door' part, try it.

It's the first thing that has ever cleaned that spotty shower door.

If yours is plastic, it works just as well as on glass.

It's a miracle!

Then try it on your stove-top.

It's now shinier than it's ever been.

You'll be amazed.

WD-40 Uses:

1. Protects silver from tarnishing.
2. Removes road tar and grime from cars.
3. Cleans and lubricates guitar strings.
4. Gives floor that 'just-waxed' sheen without making them slippery.
5. Keeps the flies off of Cows, Horses, and other Farm Critters, as well. (Ya gotta love this one!!!)
6. Restores and cleans chalkboards.
7. Removes lipstick stains.
8. Loosens stubborn zippers.
9. Untangles jewelry chains.
10. Removes stains from stainless steel sinks.
11. Removes dirt and grime from the barbecue grill.
12. Keeps ceramic / terracotta garden pots from oxidizing.

13. Removes tomato stains from clothing.
14. Keeps glass shower doors free of water spots.
15. Camouflages scratches in ceramic and marble floors.
16. Keeps scissors working smoothly.
17. Lubricates noisy door hinges on both home and vehicles doors.
18. It removes that nasty tar and scuff marks from the kitchen flooring.  
It doesn't seem to harm the finish and you won't have to scrub nearly as hard to get them off.  
Just remember to open some windows if you have a lot of marks.
19. Remove those nasty Bug guts that will eat away the finish on your car if not removed quickly!
20. Gives a children's playground gym slide a shine for a super fast slide.
21. Lubricates gearshift and mower deck lever for ease of handling on riding mowers...
22. Rids kids rocking chair and swings of squeaky noises.
23. Lubricates tracks in sticking home windows and makes them easier to open.
24. Spraying an umbrella stem makes it easier to open and close.
25. Restores and cleans padded leather dashboards in vehicles, as well as vinyl bumpers.
26. Restores and cleans roof racks on vehicles.
27. Lubricates and stops squeaks in electric fans.
28. Lubricates wheel sprockets on tricycles, wagons, and bicycles for easy handling.
29. Lubricates fan belts on washers and dryers and keeps them running smoothly.
30. Keeps rust from forming on saws and saw blades, and other tools.
31. Removes grease splatters from stove-tops.
32. Keeps bathroom mirror from fogging.
33. Lubricates prosthetic limbs.
34. Keeps pigeons off the balcony (they hate the smell).
35. Removes all traces of duct tape.
36. Folks even spray it on their arms, hands, and knees to relieve arthritis pain.
37. Florida's favorite use is: 'cleans and removes love bugs from grills and bumpers.'
38. The favorite use in the state of New York, it protects the Statue of Liberty from the elements.
39. WD-40 attracts fish. Spray a little on live bait or lures and you will be catching the big one in no time. Also, it's a lot cheaper than the chemical attractants that are made for just that purpose.  
Keep in mind though, using some chemical laced baits or lures for fishing are not allowed in some states.
40. Use it for fire ant bites. It takes the sting away immediately and stops the itch.
41. It is great for removing crayon from walls. Spray it on the marks and wipe with a clean rag.
42. Also, if you've discovered that your teenage daughter has washed and dried a tube of lipstick with a load of laundry, saturate the lipstick spots with WD-40 and rewash. Presto! The lipstick is gone!
43. If you spray it inside a wet distributor cap, it will displace the moisture, allowing the engine to start.

P.S.

As for that Basic, Main Ingredient.....

Well.... it's FISH OIL....

This Is Definitely Worth SHARING!!

Now if I can just remember some of these.

## **Restoring a Vintage Table Model Radio - Part 3**

Paul Honore W6IAM

In the last installment, I told of unscrambling the mysteries of the Atwater Kent model 40 power supply. Assured that it is behaving itself, 'it's time to move on to the working stages of the receiver. Best to begin at the audio output. Why? A lot of complicated things have to happen before a radio signal is finally rendered into audio, any number or combination of which can affect the outcome. Working backwards, one stage at a time, simplifies the troubleshooting process.

Audio is easier to work with than RF. Merely touching the input will introduce 60 cycle hum. If the audio stage is working, hum will be heard from the loudspeaker. A little caution needs to be observed when working with vacuum tubes. Reaching into a bunch of components with high voltage on some of them could spoil your whole day. Probing with a capacitor will isolate DC from your fingers and render it safe to do so. In any event, caution is always prudent when working with the unknown. With the external speaker disconnected, I plugged the output tube - (71A) - into its socket and turned the power supply on. A voltage check at the speaker terminals showed 390VDC, the plate voltage of the output tube. If the speaker had been connected it would have fried the voice coil. There should have been an isolation condenser to block DC from reaching the speaker. In many older radios, a high impedance speaker in the neighborhood of 2000 ohms worked directly from the vacuum tube output. Later, an impedance matching transformer was introduced and the speaker voice coil lowered to 12 ohms or less, but not yet. The isolation condenser was there but it was shorted. I replaced it with a .25 mfd 600V condenser from my junk box (A deviation from good restoration practice.) At this point I could have connected the speaker but I chose to use an oscilloscope instead. It would display the audio waveform and reveal any distortion. I injected a 1000 cycle audio tone into the vacuum tube grid. The signal at the speaker terminals was a clean sine wave so I moved on to the 1st audio stage.

I plugged the 1st audio tube - (26) - into its socket and moved the audio oscillator to the 1st stage input. The 'scope at the speaker terminals showed no signal and a voltage check at the vacuum tube plate showed nothing. I traced the wiring and found that what I had mistaken for large filter capacitors mounted on the circuit board were actually impedance coupling transformers located between the 1st and 2nd audio stages and between the detector and the 1st audio stage. Plate voltage for these vacuum tubes is applied through the transformer windings. An ohmmeter check of the transformers showed continuity so the problem must be elsewhere. I cut away the cloth sleeve containing the wiring harness and found breaks in two of the wires where they had apparently chafed against the lip of the power supply housing. How this occurred without smoking a few things is a mystery. I replaced the wires and secured the harness bundle with plastic wire ties. (tsk tsk. A dedicated restorer would have replaced the cloth sleeve for the wire harness but my primary goal was to make the radio work.) Problem solved, +330 volts at the 1st audio tube plate and a greatly amplified 1000 Hz sine wave at the speaker terminals.

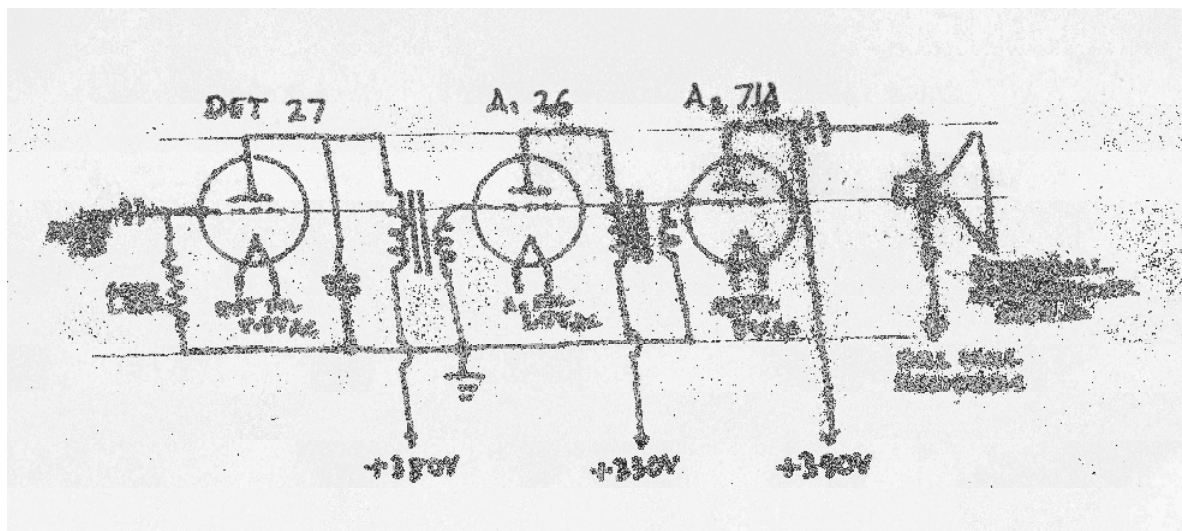
Tracing the audio circuit revealed a low gain triode amplifier, transformer-coupled to a Class-A power amplifier to drive a high impedance loudspeaker. Notice the absence of a volume control. The audio amplifier operates full gain at all times. Volume is controlled at the input to the RF circuit. I have never seen this approach before. It



seems to be a peculiarity of early Atwater Kent radios - a gutsy thing to do. Triode amplifiers are sensitive to harmonics and likely to oscillate with the least excuse. It says a lot about the confidence of a manufacturer willing to bet a multi-million dollar business on a gamble that oscillation won't develop over time. Perhaps the warranty was "void upon payment of invoice."

.The grid leak detector - (27) - vacuum tube grid is biased with a very high value (several megohm) resistor. Electrons collected on the grid "leak" through this resistor to ground, (grid leak), leaving the grid with a net positive charge forcing the tube to operate as a non-linear class AB amplifier. An amplitude modulated RF carrier has an envelope that is symmetrical about a reference point., the positive and negative swings of the modulating envelope effectively cancel each other. If the modulated signal is applied to the non-linear amplifier, one swing of the waveform is suppressed, allowing the envelope of the opposite swing to be "detected" as audio. Residual RF is bypassed to ground by a condenser at the vacuum tube plate. The circuit is simple and "bullet proof." It was used in most military receivers throughout WW-II.

I applied a 600 Hz modulated RF carrier from a signal generator to the input and observed a clean 600 Hz AF waveform at the loudspeaker terminals.; The detector worked flawlessly after 90 years! Testing of the AF section of the radio was now complete. On to the RF section. I'll discuss the TRF circuit as restoration continues.



### **CCARC Board Meeting January 3, 2018**

Meeting called to order at 1:00 p.m. by acting board Chairman, Bill Peterson WWP.  
Present were: Mark MAE, Chuck N7BV, John RBS, Rosemary MZH, George TTY, Bill C., Glenn

Secretary report: No minutes available to read.  
President report: Was appreciative of all the support.  
V President: report on info for Field Day  
Treasurer: no info available for report.  
Chairman of the Board: Welcome to all present.

Committees to be formed next week. Need back ups for newsletter. Website updates are from Sheldon and Mike. Info found in documents.

Next week Ham Meeting: Panel discussions on how to pick your first Rig, HF and antenna. Possibly Rosemary, and other specific members to participate. Members to bring radios to meeting.

Interest in going to Puyallup Fairgrounds for Ham swap meet in March.

Old Business: Meeting locations for 3 months or out farther if needed. Meetings to end no later than 9 p. m. Need set-up and clean-up committee. Sheldon will do coffee, others will help. Board meetings will be held at Neah Bay Room at PUD offices. First Wednesday of the month at 1 p. m.

Committee responsibilities and structure. Need people with experience to submit responsibilities so adequate participation is found on all committees. Some will need backup and help with jobs. Hold committees responsible for results. Mark and Chuck will come up with outline plan for duties for committees.

New Business: Skye volunteering for Y.L.?  
Joshua's for breakfast on January 6th at 8:30 a. m..

Need budget and audit for Treasurer to assume duties. 2 cards for secretary and treasurer. Is there a safety deposit box? 2 persons for audit. Motion for Karen and one other person to audit treasurers account. Lunch to be provided. Motion passed.

Need master schedule calendar for club. Put in documents.

George requested a sealed tent for field day. Need warmer and better lighting. Glenn also suggested an electric remote control when lowering the tower. Any more issues?

Home show. March 10-11. Do we want to participate? Motion to do Home Show, buying a booth at the Home Show on Mezzanine floor. Approved.  
Need ways to help new Hams get on the air. Ask for volunteers for them, via e-mail to correspond with. Committee to integrate newcomers into the organization.

Motion to give CCARC e-mail site access to President and Chairman of the Board. Approved.  
Meeting closed at 3:25 p. m.



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Submitted by Rosemary Day MZH, Secretary

## CCARC Strays

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 WSPR Challenge.

Recall last month my article on WSPR a low power one to five watt one way weak signal protocol. I, for the lack of a better word, challenged those with HF rigs and a sound card interface for digital modes to see what their best mileage might be with 1 watt on 40 meters.

Bill Carter, W7WEC, was the only one reporting this month with a -28 signal report from JA8XMC at 6954 km or 4321 miles.

I know there are more of you out there. Let's see what the month of January brings.

Again if you need help getting WSJT and WSPR going give me a call or email  
 k6mby@olypen.com

Bob K6MBY

Bob Sampson k6mby@olypen.com

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 To 'CCARC-QTC'

I have a new Yaesu handheld on the way! Santa forgot it while I was in the hospital!

Joe Wright  
 KG7JWW  
 "The Twilight Zone"  
 The Real Western Washington!

~~~~~  
 BJ-218 Radio with CHIRP and SignalLink USB

Do you have one of these radios?

They are sold by the brand names of Baojie, Zastone and Hasenate. They usually have the model number BJ-218. This is a VHF/UHF mobile/base unit with multi-power settings.



If you do, and you like to use CHIRP to configure your radios then you probably have been waiting for this model to show up as supported. Wait no more; they have been covered for quite a while, but under a different vendor and model. Use vendor "Luiton" and model "LT-725UV" when running CHIRP. Not all settings are supported yet, but all the useful ones are.

Also, to connect a SignalLink USB TNC to these radios, use an RJ45 (CAT-5) cable to the microphone input and jumper JP1 for PTT-5, MIC-3, and G – 6.

Submitted by Rick DeWitt, AAØRD AAØRD@ yahoo.com 360-681-3494

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When good coax goes bad, it's often due to water ingress. [DX Engineering has published a technical tip](#) showing how to use a combination of rubber splicing tape and vinyl tape to make weatherproof coax connectors.

The FlexRadio folks have shared an [application note regarding grounding in the shack](#). Single point grounding and the differences between RF and electrical grounding are among some of the topics discussed.

If you haven't taken advantage of your ARRL membership (or joined) subscribing to ARRL newsletters are a great way to increase your knowledge and keep up with what is going on.

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Here is another small antenna used by some to get on the air HF. Where there is a will there is a way!

<http://alexloop.com/>



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Old 73 Magazine and Ham Radio Magazines.

Take a gander, see there is nothing new under the sun! Also check out the magazines price!

<http://cahabatechnology.com/aa4pg/>

73, Chuck N7BV

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Space Weather News for Dec. 15, 2017

<http://spaceweather.com>

<https://www.facebook.com/spaceweatherdotcom>

**THE SUN IS DIMMING:** Today at the Cape Canaveral Air Force Station in Florida, SpaceX launched a new sensor to the International Space Station named "TSIS-1." Its mission: to measure the dimming of the sun. As the sunspot cycle plunges toward its 11-year minimum, NASA satellites are tracking a slight but significant decline in total solar irradiance (TSI). TSIS-1 will monitor this dimming with better precision than previous satellites as Solar Minimum approaches in the years ahead. Visit today's edition of Spaceweather.com to learn more about TSIS-1 and natural variations in the sun's electromagnetic output.

Remember, SpaceWeather.com is on Facebook!

Above: This plot shows the total solar irradiance (TSI) since 1978 as observed by NASA and European satellites. The sun's electromagnetic output (top frame) waxes and wanes with the sunspot cycle (bottom frame).

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**SECOND EDITION OF THE DX'ERS HANDBOOK FREE**

[http://www.k7ua.com/uploads/4/9/9/0/4990079/  
new\\_dxers\\_handbook\\_second\\_edition\\_01-29-2015\\_optimized.pdf](http://www.k7ua.com/uploads/4/9/9/0/4990079/new_dxers_handbook_second_edition_01-29-2015_optimized.pdf)

42 pages of information for chasing DX contacts which are just plain useful for any one. 73, Chuck N7BV

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Dr. Tamitha Skov is featured in the first 2018 issue of Popular Science:

<https://www.popsoci.com/space-weather-woman>

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**ARRL RTTY ROUND UP**

Operator(s): CHUCK N7BV, Bob KF7JQV, Mark K7MAE

Station: N7BV

Operating Time (hrs): 17.75

Summary:  
Band QSOs

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80: 138

40: 105

20: 304

15:

10:

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Total: 547 State/Prov = 56 Countries = 24 Total Score = 43,760

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## **CCARC General Meeting 2017-12-13**

1900 Call to order, Pledge of Allegiance, Introductions

Presentation

Grounding & Bonding for the Little Pistol & Medium Gun

Skype with Ward Silver N0AX

Nominations

President

K7MAE

Vice President

N7BV

Treasurer

KI7RBS

Secretary

KI7MZH

First Year Board Member

N4JAB

Moved and Seconded that all single nominee positions take office by acclamation. Votes by members present are 27 yes, 0 no, motion carried.

The Firehouse is NOT available for club or member usage during the month of January, until further notice. N7BV will check on an alternate location.

2100 Meeting adjourned

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C. Mike Rice KF7VZZ

## **Thank you to all who contributed to this Newsletter:**

Mike Rice KF7VZZ

Bob K6MBY

Rick AA0RD

Joe Wright KG7JWW

Rosemary KI7MZH

Paul W6IAM

### **CCARC Standing Committees**

**VE Education and Training:** Chuck Jones N7BV

**Field Day Co-Chairs:** Al Fisk KD7TFK, Sheldon Koehler N7XEI, Linda Montelius KG7WMS, Ray Montelius KG7WNB

**Health and Welfare:** Nita Lyman KE7DRT

**Membership Chair:** Sheldon Koehler N7XEI

**Net Coordinator:** Mike Rice KF7VZZ

**Program Co-Chairs:** Bruce O'Rourke WA7CCC, Bill Peterson K7WWP, Tom Pysher K7YSH

**Public Relations:** Bill McPherson W6JEQ, Bruce Reiter KD7WBM, Herm Halbach KG7WMZ, Sheldon Koehler N7XEI, Bill Todd N7MFB

**Publications (Newsletter):** Chuck Jones N7BV, Herm Halbach KG7WMZ

**Technical Committee Coordinator:** Doug Welcker, WB4KGY, Bob Sampson K6MBY, Bill Peterson K7WWP, Merrill Terpstra KA7FAM

**Web Site Administrators:** Sheldon Koehler N7XEI, Mike Rice KF7VZZ



### **CCARC Special Committees**

**Hamfest Table:** Mark Ellington K7MAE, Doug Welcker WB4KGY, Andrew Rowland KF7QYL

**Trailer:** Mark Ellington K7MAE, Charlie Brown WA4DFT, Andrew Rowland KF7QYL, Bruce O'Rourke WA7CCC, Glen Muir WA6RQW

**Roster:** Sheldon Koehler N7XEI, Chuck Jones N7BV

**Fireworks:** Nita Lyman KE7DRT, Ray Montelius KG7WNB, Bruce O'Rourke WA7CCC

**NOTE: These committees need to be reevaluated and confirmed. It does no good to be on a committee and do nothing. Especially if you don't even come to meetings! If you want on a committee or off, please let it be known.**



**NEXT YL Luncheon****ASIAN BUFFET  
Port Angeles****January 12, 2018**

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

**2017 - CCARC Ladies Luncheon Schedule***Reservations are made for 11:30 - 2nd Friday of each month*

February – Dynasty – 380 E. Washington St. - Sequim  
 March - Fiesta Jalisco - 636 E. Front St. - Port Angeles  
 April - Oak Table - 292 W. Bell - Sequim  
 May - Downriggers - 115 E. Railroad Ave. - Port Angeles  
 June – Black Bear Diner – 1471 E. Washington - Sequim  
 July - Gordys Pasta and Pizza - 1123 E. First St. - Port Angeles  
 August – Mariners - 609 W. Washington - Sequim  
 September - Cafe Garden - 1506 East 1st St - Port Angeles  
 October – Paradise – 703 No. Sequim Ave – Sequim  
 November - Chestnut Cottage - 929 E. Front - Port Angeles  
 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,<br>223 E. 4 <sup>th</sup> St., PA   | Bruce Reiter KD7WBM<br>360-452-9851 |
| Clallam County Amateur Radio Club general meeting  | 7 pm, 2d Wed of every month    | Port Angeles Fire Station<br>5th and Laurel, PA                    | Chuck Jones N7BV<br>360-452-4672    |
| Clallam County Amateur Radio Club social breakfast | 8 am, 1st Sat of every month   | Bi-Monthly Joshua's Restaurant,<br>PA & Mariner Restaurant, Sequim | Chuck Jones N7BV<br>360-452-4672    |
| Clallam Country Amateur Radio Club YL social lunch | 11:45 am 2d Fri of every month | Rotates - announced on Thursday<br>night Net (See QTC Newsletter)  |                                     |

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

**CLUB OFFICERS For 2017****President:** Mark Ellington K7DWE 360-460-4043 gossamer765@gmail.com**Vice President:** Chuck Jones N7BV 360-775-8201 n7bv@yahoo.com**Secretary:** Rosemary Day KI7MZH 360- rosemaryday2000@yahoo.com**Treasurer:** Joe Edwards KI7RBS [thesharpshark2011@gmail.com](mailto:thesharpshark2011@gmail.com)**Board Chair Person:** Chuck Stroeher WA7EBH 360- cstroeher@wavecable.com**Board Member:** Bill Peterson K7WWP [billp@alaska.net](mailto:billp@alaska.net)**Board Member:** John Lehto N4JAB [ponyexpress@olypen.com](mailto:ponyexpress@olypen.com)