



CLALLAM COUNTY AMATEUR RADIO CLUB

QTC
DECEMBER 17

Greetings all.

With elections coming up, we think it's a good idea to make everyone aware of the individual responsibility's of club officers.

Although its not a requirement, we think it is a good idea for board members to attend the club breakfasts and lunches when ever possible. Thru that interactivity it gives a opportunity for the board members to get to know club members that are not able to make it to monthly club meetings. This will help the board to better understand the interests and concerns of those members.

That being said we'll move onto officers requirements.

DUTIES OF OFFICERS

President shall

- Preside at all Club meetings, except Executive Board meetings.
- Prepare an agenda for each Club meeting, based on the Standing Agenda Items in Appendix A, and publish it in the QTC or email to membership prior to the meeting.
- Be guided by these By-laws when running all Club meetings.
- Vote only in the event of a tie.
- Sign all official documents adopted by, or required of, the CCARC, except documents regarding W7FEL licensing, which will be signed by the Club Station License trustee.
- Be responsible for all CCARC functions (except Field Day) such as the International Picnic, December Social Meeting, etc.
- Activate and terminate Ad-Hoc committees as needed and oversee their activities.

Vice-president shall

- Assume duties of the President in the President's absence.
- Perform other duties as assigned by the President.

Secretary shall

- Record the minutes of all Executive Board, Club and special meetings. All Board and special minutes shall include a list of attendees. The Club meeting minutes should include the number of members present.
- Conduct correspondence at the direction of the President or Executive Board.
- Bring in-coming CCARC communications to the attention of the Executive Board.
- Be the custodian of the current version of CCARC's By-laws.
- Have a copy of the current version of CCARC's By-laws at every Club meeting.
- Provide a copy of the current version of CCARC's By-laws to all newly-elected Officers that do not have internet access to download a copy from the web site.
- Be the custodian of the CCARC's correspondence.
- Be responsible for the publication of the CCARC's newsletter.
- Pass all CCARC documents and other appurtenances of the office to the successor,

by January 1, each year.

As a note... Minutes need to have some detail since it is basically an historical document. For example: "We had Ward Silver NOAX (who wrote the book on grounding) gave a Skype presentation on that subject". If it just said "We had a presentation on grounding"; A few years from now, the missing details would be of little help to someone looking for program ideas.

Treasurer shall

- Receive and give receipts for all funds collected by the CCARC.
- Maintain accurate records of all CCARC monetary transactions.
- Upon being given adequate documentation by or on behalf of the payee, pay those bills authorized by the yearly budget or as directed by the Executive Board.
- Maintain the official CCARC roster. This information shall be distributed as the Executive Board directs.
- Be the custodian of the CCARC financial records.
- Pass all CCARC financial records and other appurtenances of the office to the successor, by January 1, each year.

As a note... will also be responsible for buying Board approved purchases with the clubs account. and dealing with the bank.

Three (3) Executive Board members.

Executive Board

V.1 The Executive Board shall consist of the President, the Vice President, the Secretary, the Treasurer, and (3) three elected Executive Board members as provided in these bylaws. Each Executive Board Member shall serve a (3) three-year term. One new member will be elected to the Executive Board each year, as the most Senior-tenured member ending their third term retires from the Executive Board. All Executive Board meetings shall be led by the Board Chair, who is the most senior-tenured Executive Board member. If the Board Chair is not in attendance, the next most senior-tenured Board member shall perform the chair functions.

V.2 Board members may not abstain at Executive Board Meetings, unless a conflict of interest may arise as a result of their vote.

As a note... The Chairman will also be responsible for running all board business that needs to take place via email.

We are looking forward to another enjoyable year and we thank you all for your support!

73, Dennis AD7TV and Mark K7MAE.

The Bouvet Island Dxpedition

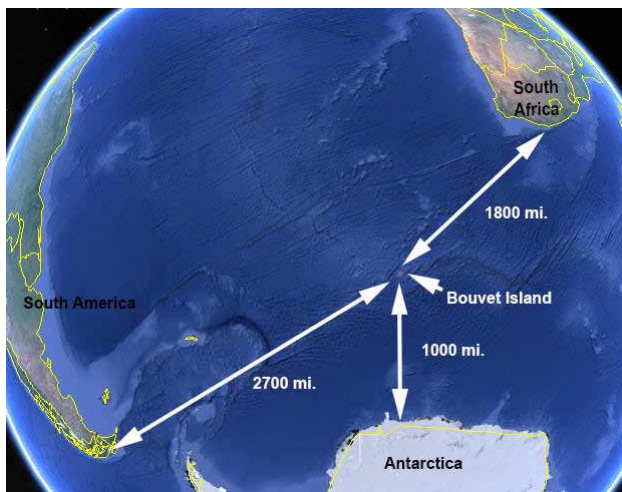
**3YØZ
Early 2018**

Cold, isolated, seldom visited by man.
"The Most Isolated Island on Earth"

Weather on Bouvet

Bouvet Photos by Dolf Kessler

Bouvet lies at 54 degrees, 25 minutes South and 3 degrees, 22 minutes East. It's the product of a volcanic eruption that last occurred in 4,000 B.C. Bouvet is 97% ice covered, and with surrounding rocks and small islands, has an area of 19 square miles, with 18.4 miles of coastline. Its location, ice, rock cliffs, high seas, harsh climate and surrounding pack ice and icebergs isolate it from human presence. Jean-Baptiste Charles Bouvet de Lozier first saw the island in 1739. The island was not seen again until 1808. There was a disputed landing by Benjamin Morrell. But, the first documented landing was by the Norvegia expedition in 1927, which named the island Bouvetoya, and claimed it for Norway.



Bouvet became a Nature Reserve in 1971. Several weather stations have been placed on the island, and a number of Norwegian expeditions have visited the island in the last 50 years. The island has hosted several previous DXpeditions, including:

- ◆ LH4C by W4BPD in 1962 – No documented landing.
- ◆ 3Y3CC and 3Y1VC by LA3CC and LA1VC in 1977.
- ◆ 3Y5DQ and 3Y1VC 1978-79 by LA5DQ and LA1VC.
- ◆ 3Y5X by LA2GV, LA1EE, JF1IST, F2CW, and HB9AHL 89
- ◆ 3Y2GV by LA2GV in 1997.
- ◆ 3YØC by N4BQW in 2000.
- ◆ 3YØE by ZS6GCM in 2008.

Bouvet is currently number two on the DXCC most wanted list.

SEE: <http://www.bouvetdx.org/> for more information, including how to work them on FT9 mode.

Treasurers Report for [November](#) 2017

Below is the bank account balances for December 1st:

Bank Account Balances 12/1/2017

Checking	7462.31
Savings	3029.77
CD	<u>1044.96</u>
Total	11677.65

November income 161.83

Misc income	00.00
Dues paid	160.00
Interest	1.83

November expenses **302.44**

Costco for Christmas party	109.76
DX Engineering	127.75*
Online Components	64.93*

- ◆ Parts for field day that were borrowed from several members and purchased to replenish them and have some on hand for next year.

WSPR Challenge

WSPR (pronounced Whisper) is a weak signal digital mode application written by Joe Taylor, K1JT. Joe has written a number of weak signal application for HF and VHF use. His applications have made moon bounce contacts doable for the little guy (100 watts and a small beam as oppose to 1500 watts and a big stacked set of beams).

WSPR is not a two way communication application. Using WSPR you transmit a low power signal, 5 watts or less, for two minutes. You then look on WSPRnet.org to see who heard you. Below is an example of my station transmitting 1 watt on 40 meters one evening last week. Almost 9000 miles on 1 watt!!! Notice my signal level.... -27. You can not hear that signal with your ear but WSPR can.

Many of you have newer radios with a sound card built in so an external sound card such as SignalLink is not needed. Download the latest version of WSJT, get it set up and look in the Mode section. Down at the bottom is WSPR.

The challenge is Who has the most miles at 1 watt on a wire antenna? Forty meters is hot right now during the evening so I suggest 40. Look up your results on wsprnet.org and take a screen shot of your results.

Anyone want to play? Nine thousand miles means contacts into Europe or Asia. Thirty five hundred miles or so is about the best in the USA.

Results will be posted in next months letter.

Need help? k6mby at olypen.com or text 360-477-0776.

Get Your License Here!

**Chuck N7BV
ARRL VE-L**

December Program

SEE PAGE 8

Articles needed 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 ccarcqtcc@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 ccarcqtcc. 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 ideas for a club programs?
Pass them along to Bill Peterson
K7WWP.

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



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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The Bouvet Island Dxpedition will be one of the first, if not the first Dxpedition to make use of the newer JT-Digi modes.

Learn about these (an off shoot of the WSPR Challenge, see page 4) modes, contained within WSJT-X software used for WSPR.

With JT9 and FT8 modes non CW hams are able to take part in DXing big time. This is helping expand the use of our bands.

Last night as I was working on the newsletter I tuned to 160m just after sunset and began to hear JT9 signals all across the country. Actually for the most part I did not hear a thing, but the computer/software did!!

73, Chuck N7BV

***HINT***

I have found a number of LED bulbs producing noise on my 2 meter rig tuned to the Striped Peak repeater and other HF bands. Particularly bad were the BR30 flood lights from Costco among others. Use your handheld, push the MON button to unlock the squelch and go around turning ON/OFF various light switches. You might be surprised, I was. All my noisy LEDs have been banished to the garage.

Charlie WA4DFT

## Restoring a Vintage Table Model Radio - Part 2

Paul Honore W6IAM

Every receiver circuit can be broken down into generic building blocks or stages. It must have some kind of power supply, an RF (Radio Frequency) stage, an AF (Audio Frequency) stage, usually an IF (Intermediate Frequency) stage, and a detector. If the receiver is a heterodyne circuit it will also include an Oscillator. These stages or building blocks are easily recognizable and are best serviced by treating them independently. In the first installment of this odyssey, I identified the restoration project as a 1927 Atwater Kent receiver - a TRF (Tuned Radio Frequency) circuit in common use during the 1920s. The more familiar heterodyne circuit had not been invented yet so most radios of the era passed RF from the antenna through several tuned stages of amplification before detection (separating the audio modulation from the RF carrier.) I'll go into detail about the RF portion of the radio in a later installment but first I want to discuss the Power Supply.

When servicing any piece of electronic equipment, ALWAYS begin with the power supply. As a NAVY electronic technician, time and time again I saw folks try to cure ailing electronic equipment by treating the symptoms first, with little success. No electronic device is going to operate properly if it is not supplied with correct voltages. Unfortunately, much of the power supply in the Atwater Kent is mysteriously encased in a tar-filled metal can. From the parts that are visible, and extrapolating from experience, I propose the accompanying schematic diagram of what I think the circuit consists of. Resistance and voltage readings assure me that it is a workable representation. Note the two wire line cord and the absence of a fuse. I doubt if OSHA would approve, especially for a steel cabinet housing high voltage components. In all fairness, it must be noted that U-ground household receptacles were not even thought of when this radio was built.

Plate voltage for the RF, AF and Detector vacuum tubes is supplied by a full wave rectifier and a resistive voltage divider. The 800V center tapped power transformer and filter are buried out of sight with only a forest of wires emanating from a solid block of tar. They terminate on a terminal board to which a mating board with a wiring harness is bolted, forming a kind of sandwich. Separating the layers revealed shunt resistors across the filament terminals to help null-out 60 Hz audio "hum". Hum was a bugaboo in vacuum tube audio circuits as a consequence of powering the tube filaments with alternating current. The AC modulated the electron beam as it was emitted from the filament and the 60 Hz modulation was added to any signal that was applied to the vacuum tube grid. Often it was greater than the applied signal making it particularly troublesome. Various schemes were tried to eliminate the problem but none were completely successful. The method used in the Atwater Kent is among the most effective I've encountered.

When checking everything with an ohmmeter, I discovered that many of the connections were corroded and loosely secured and that several of them were broken. The first step was to replace a broken toggle switch and 2 wire line cord with a modern 3 wire cord and connect the safety ground wire to the chassis. I also added an in-line fuse. This was not in the spirit of faithful restoration but I

thought it best to cheat in the interest of personal safety. The next step was to clean and tighten the terminals and solder the broken wires in place. The power supply was now ready for a "smoke test." I removed all the vacuum tubes except the rectifier - (80).- and switched the power on. No smoke! Measurements of plate and filament voltages at the power supply terminals appeared to be in the right "ballpark" There's no guarantee that the measured voltages are exactly as intended by the manufacturer but, so far, results are encouraging. The next step will be to test and repair the audio section of the receiver. Stay tuned as they used to say. More to come.

### ***December 13th CCARC meeting Presentation:***

#### Grounding:

Proper grounding and bonding are important for safety, lightning protection and RF management. Often grounding and bonding are misunderstood.

H. Ward Silver, N0AX, will give a SKYPE presentation on Grounding and Bonding.

Silver has written many books on Ham Radio subjects including the recent ARRL book on "Grounding and Bonding for the Radio Amateur."

He is also known for his 15 years of authoring the "Hands On Radio" column in the QST magazine and the ARRL "Contest Corral" Email newsletter.

Many hams in our area personally know Silver as he lived and worked in the Pacific North West for many years, residing on Vashon Island. Silver now lives in Missouri.

Bill Peterson / K7WWP



**CCARC Board Meeting 2017-12-06 Herm KG7WMZ**

19:02 meeting called to order by KG7WMZ  
In Attendance: WA7EBH K7WWP K7MAE N7XEI N7BV W7TTY KG7WMZ

- Treasurer - N7XEI –
- applied report for November 2017
- soldering kits on order
- coax spool on order
- ARRL has not cashed our check yet
- board to work on 501C7 status

- Webpage Committee – N7XEI K7WWP -
- ironing out last minute bugs in new database
- N7BV requested a current active member roster

Finance/Secretary Committees discussed to be pulled together at the first of the year  
 suggestions documented for educating the and supporting the new treasurer next year

New potential general meeting locations and dates discussed due to filling the PA firehouse

It was brought up that our secretary needs to submit the annual letter to the PA firehouse for continued CCARC 2nd Wednesday evening general meetings

N7BV thanked N7XEI for all his successful efforts administrating our annual Christmas party.

Improved alternatives for next year’s Christmas party were discussed and noted by N7XEI

Paper ballots suggested to be ready for next week’s club officer’s nominations and elections

After a move, second and unanimous vote the meeting was adjourned at 20:06

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CCARC General Meeting 2017-11-08

1900 Call to order  
pledge of allegiance, introductions

Presentation - EMP by Kaj Ahlburg KF7ZEN  
Notes from the presentation are available at our website library:

<http://www.olyham.net/library.htm>

- Nominations for 2018 positions
- President K7MAE
- Vice Pres N7BV
- Treasurer N7XEI
- Secretary KI7MZH
- 1st year board member AA0RD

This year's Xmas Party will be held at the IBC at the top of Laurel in Port Angeles  
decided by motion and vote  
N7XEI N7BV KI7RAZ to organize  
daytime if possible, about 1400 desired

KD7WBM thanked the Club for use of a GoBox for and ARES exercise.

2055 Meeting adjourned

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C. Mike Rice



Membership renewals

It is that time of year again (where did the year go?) and dues are coming up.

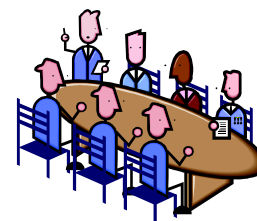
This year we would like everyone to please fill out the new members form when submitting your dues. We have come to find we have some phone numbers that are not valid and addresses that do not match the FCC database. We want to make sure we have correct contact information on every club member. Sorry for the inconvenience, but we should do this every year anyway in my opinion.

I will have forms available at the club meetings or you can download them from the club website.

http://www.olyham.net/library/CCARC_Application.pdf

Also, please put your call sign on the memo line of any checks written to the club.

Sheldon Koehler, N7XEI
CCARC treasurer

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 Chair:** Bill Peterson K7WWP,**Public Relations:** Bruce Reiter KD7WBM**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 Bill Peterson K7WWP**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**Fireworks:** Nita Lyman KE7DRT, Ray Montelius KG7WNB, Bruce O'Rourke WA7CCC

Here is a Power Point program on the FT8 and JT65 for you to peruse.

It is pretty inclusive and give a good idea of what to expect when using these modes.

https://docs.google.com/presentation/d/1Kppg_dIxQnBGscJ0Gp6u8tPAb3a4y0JKTqnCvTW_9aI/edit#slide=id.p

<http://www.k8zt.com/digital>

K8ZT website is a wealth of knowledge pertaining to digital signals.

Take a gander that see if something interests you.

Tks. 73, Chuck N7BV

From the Editor:

A thank you to all who contributed to this newsletter.

Sheldon N7XEI
 Mike KF7VZZ
 Herm KG7WMZ
 Paul W6SAI
 Dennis & Mark
 Bob K6MBY
 Bill K7WWP
 Charlie WA4DFT

Tks. 73, Chuck N7BV

NEXT YL Luncheon**12 January****2018****TBD**

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

2018 - CCARC Ladies Luncheon Schedule**Reservations are made for 11:30****2nd Friday of each month**

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	Bruce Reiter KD7WBM 360-452-9851
Clallam County Amateur Radio Club general meeting	7 pm, 2d Wed of every month	Port Angeles Fire Station 5th and Laurel, PA	Chuck Jones N7BV 360-452-4672
Clallam County Amateur Radio Club social breakfast	8 am, 1st Sat of every month	Bi-Monthly Joshua's Restaurant, PA & Mariner Restaurant, Sequim	Chuck Jones N7BV 360-452-4672
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 Members](#)

Randy Brown KI7RBH

CLUB OFFICERS For 2017

President: Dennis Tilton AD7TV 360-452-1217 ad7tv@wavecable.com
Vice President: Mark Ellington KI7DWE 801-821-1888 gossamer765@gmail.com
Secretary: Mike Rice KF7VZZ (360) 912-2395 kf7vzz@gmail.com
Treasurer: Sheldon Koehler, N7XEI (360) 457-3029 sheldonk@gmail.com
Board Member (Chairman): Herm Halbach III, KG7WMZ (360) 504-2226
hermhalbach@centurylink.net
Board Member: Chuck Stroehner WA7EBH 360-417-3054 wa7ebh@arrl.net
Board Member: Bill Peterson K7WWP 425-678-5753 billp@alaska.net