



CLALLAM COUNTY AMATEUR RADIO CLUB

QTC
SEPTEMBER 10

DRT Shack,

Hi CCARC Members,

I hope every one is enjoying the cooler weather, as it did get a little uncomfortable a few days. I'm not one for high temperatures, and to me that's anything over 90 degrees. If it would just stay this way all the time.

We had a great turn out with the Canadians. This year there were 8 Members of the Victorian Short Wave Radio Club that's been around so 50 to 60 years. As always they have many different tales to share, plus ours to tell. Callie N7YMU, did a fantastic job in organizing this bi-yearly get together, as next year we visit there, so again, if you want to have a nice trip, meal, and excellent food, get that enhanced drivers license or passport. SO to all who help Callie, in any way at all, THANK YOU! It's our Club, so why not show it off!

I'm sure N7BV will have the class dates and times, and we can't stress enough how important it is to keep newcomers in, especially after hearing how many are left in this certain Club, and our classes make all the difference in the world. I tried to convince my son to get his. I'll keep working on him. SO talk to your friends, as our VE's spend many hours prepping for this.

Hope as many as can make it to the meeting September 8th. It's nice to see so many attend, the programs are always interesting, and those goodies!

Gosh, before long, it'll be Christmas..hmm maybe it's time for another one of those raffles? Santa's always good to "good Hams". Suppose we have to have something to raffle first.

Personally, can't wait for the party myself. There's always some one that gets that 'goodie'..hi hi. More on this to come!

See you Soon.

73 to all!

Nita

Get Your License Here!

**Next class September
18th, 25th and October
2d with the Exam at
1300 on the 2day.
1900 at PA Fire Station
5th and Laurel**

FYI: We are changing our training schedule to include actually teaching a chapter on the third Saturday.

Call Chuck, N7BV
360-452-4672
or
Tom, KE7XX
360-452-8228.

Thanks, Chuck, VE-L

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!

The more you submit the less we have to think of.

Thanks, the staff!

CCARC QTC Newsletter

Just a little back round 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 (MSword, edit, clear, formatting) if you know how, before sending it to ccarcqtq. If you feel the creative urge to design a document—please open a design shop, but don't do it and then send it to us expecting to see your creative work transferred to the newsletter.

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,
Chuck, N7BV Bob K6MBY

Have an idea for a club program?
Pass them along to the members of the program committee: Bill Carter, Janet Paris, or Chuck Jones. 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.

Wanted Treasurer

As the saying goes. all good things must come to an end. David, KE7JEJ has informed us he will be moving on with his personal life. This leaves the club looking for his replacement.

The following is a list of the treasurer's duties:

Collect club dues.

Maintain up-to-date financial records.

Pay club bills.

Attend Club meetings, board meetings, and VE examination dates to collect club monies.

Present financial information at meetings as necessary and monthly to the newsletter.

Assist the board in preparing the yearly budget.

The treasurer is an officer of the club and would attend board meetings.

This is not a difficult task nor is it one that takes a great deal of peoples time. . It is your club folks, be a part of it. The club's alternative is to hire a bookkeeper should one of our 100+ members not step up to the task.

CONTACT ANY BOARD MEMBER.

CLALLAM COUNTY AMATEUR RADIO CLUB
Minutes of the General Meeting 11 August 2010

The meeting was called to order at 1903 by the Club President Nita Lyman, KE7DRT. Thirty-four people attended the meeting. We had self introductions around the room.

Then we said the Pledge of Allegiance.

The presentation was a DVD video of the VP8GEO DX expedition. This was part two and about the trip to South Georgia. South Georgia is a British Territory off the tip of South America. It was a balanced presentation of what was on the island and the other side of DX. Sure there were penguins but also old whaling buildings and some of the politics of getting to the island. The DX equipment was a low power. This meant a maximum of 100 watts. The equipment, antennas installation and generators were all described. It showed some of the operators working their side of the pileups.

2006: BREAK

2022: Nita called the business meeting to order.

The first item was choosing the door prizes for the VE picnic. Several samples of gift boxes made by AI, W7ALP were presented. Two were chosen and the group voted to buy them.

The minutes of the previous meeting were approved as printed in last month's QTC with one minor correction. Becky, W7RJW is the membership chairperson vice Valerie KF7VAL.

Some items were announced for swap and trade. Tom KE7XX mentioned he has a contact with some old QSL cards, probably from just after WWII if not earlier. Chuck N7BV mentioned that K7SS would buy them. Tom will get that info back to the card owners.

AI AL7KK says he has 200 feet of half inch hard line for sale. \$50. This includes the tool to resize the hard line for PL-259's.

Dennis, AD7TV has a Kenwood TS-180 for sale. Contact him for details.

Rik, WX7RIK, asked if we wanted to add an equipment for sale, swap, or trade to the Web page. The general consensus was yes.

Nita showed a sample of an "Elmer award". The crowd liked it so she will bring it to the next Board meeting for their discussion.

Nita talked some more about the VE picnic which is Sunday August 15. Someone suggested moving it to a Saturday. There was general agreement and Nita said that info should be forwarded to next years President.

The meeting was adjourned at 2047.

Bill Carter, W7WEC
Secretary, CCARC

Ellis Status

The technical committee along with the board and officers have decided not to accept the Century Link lease for Ellis Peak. There were several articles in the lease regarding access and maintenance that the group felt were just too onerous for the club to accept.

Getting the word out.....

Scott Hernandez, KD5PCK, of Mandeville, Louisiana, said he usually donates his "issues of magazines to the local high school when I am done reading them. I try to get them to the school within a month after I receive them – that way they are still pretty current."

**CLALLAM COUNTY AMATEUR RADIO CLUB
Minutes of the Board Meeting 25 August 2010**

The meeting was called to order at 1801 by the Board Chair Johan Van Nimwegan. KO6I.

Attendees were Board members Johan KO6I, Dennis AD7TV, Chuck N7BV, David KE7JEJ, and Bill W7WEC, and Nita KE7DRT, and Rik Scairpon, WX7RIK, Chairman of the Web Administration Committee.

David gave a Treasures report. We have \$7,720.59 in the bank. He paid a supplementary insurance bill for \$105.63. This was to up our Liability requirements. Bill said he would contact Lee as we thought there was no additional charge because we were paying the minimum. We still need a new Treasurer starting January first. We need to select a person so the software can be turned over to the new person prior to the new year.

Bill announced that we received a card from Dan, N7DWA thanking the club for the card and well wishes. Bill also presented a summary of Chucks idea to split Board responsibilities among all of the Board members. The idea was accepted and Bill will send the list of responsibilities to all Board members. It was noted that a lot of the Treasurers duties cannot be divided up.

Chuck mentioned about the Brother of a Ham who has a bunch of left over equipment from when the DEW line was shut down. Does the Club want to take on the responsibility of helping him dispose of the equipment? Chuck volunteered to run the operation. The Board voted to approve the event and that 35% of the sales would go to the Club.

Bill asked if we shouldn't send a letter thanking Karen and Chuck for performing the audit. All agreed it was appropriate and Bill will type and sign for the Board members.

We discussed the Ham equipment and tower donation from the Ham in Eastern Sequim. Chuck reported that an evaluation of the tower by him and Chuck, WA7EBH revealed that it's too insecure to be taken down without assistance of a crane. Chuck, N7BV says he has a friend with a crane. He lives down by Puyallup. If the Club would pay for his fuel then Chuck would spring for his supper. The fuel costs are under \$500 but he doesn't know exactly how much. Chuck will get back to the Board for final approval for the expense. (Editors note: The clubs expenses will be offset by the sale of the donated equipment.)

Nita reported that the Picnic went well. Callie worked extremely hard to make it a successful event. There was some discussion about moving the event to a Saturday in an attempt to get more attendance. Nita said she would check with the Canadians to see if that would work for them next year.

Dennis said the 40 foot crank up is now at Johans. It's being sold as is and with the rotator. It does need work. Rik said he would work with Dennis to get some pictures and put it up on the Club's web page.

Johan said the October meeting will be about the new Officer nominations. All will talk it up and try and present a good slate of candidates. He asked if we couldn't buy a trailer lock for the tower. It was approved for him to buy one for the trailer tongue. The cost should be under \$50.

Nita suggested the special meeting be October 20th and it was approved. The location is at Johans, 6 PM.

The meeting was adjourned at 1842.

Submitted: Bill Carter W7WEC
Secretary CCARC.

TAPR/ARRL Digital Conference

".....the ARRL is putting on their annual Digital Conference in Portland, OR, September 24 thru 26. This is an unusual opportunity for those of us on the coast to connect with ham radio digital "heavy weights" from all over the country. Here is the link for your information: <http://www.tapr.org/dcc.html>". Topics include software defined radios, Digital voice such as Dstar, P25, WinDRM, digital satellite communications, APRS, DSP, HF digital modes and many more. This is the premier ARRL digital Conference, usually held in far off (for us) places like Chicago or Arizona, so having it in our back yard is very unusual.

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EME Conference

14 International EME Conference

August 12-14th in Dallas, Texas. This is the premier EME event of the year. Topics such as low noise amplifiers, software defined radios and EME, Big Dish EME, EME Propagation, Software

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PACIFICON 2010 Is Coming Soon!

Ham Radio Convention Returns to the San Francisco Bay Area

October 15-17, 2010, San Ramon Marriott Hotel

San Ramon, California

For Event Schedules, Latest Updates and Ticket Sales go to:
www.PACIFICON.org

Call the Marriott Hotel Reservations Desk at 1-800-228-9290
before October 1, 2010, to ask for the special Pacificon rate of \$90/night.

PACIFICON 2010 Events Include:

** Friday All-Day Antenna Seminar ** Friday Legal Seminar ** Friday Evening Open MDARC Meeting
** Saturday Keynote Breakfast & Evening Banquet ** Outstanding Technical Forums ** Ham Equipment Exhibitors
** Great Swap Meet ** Daily Radio Prize Drawings ** ARRL Forum ** Transmitter Hunt ** ATV Activities
** HFpack Activities ** Ham License Exams ** Saturday All-Day Technician License Class ** Boy Scout JOTA

The Linear Accelerator, a technician's view

Part-6 Conclusion

Thinking back on it, the years I spent at the Stanford High Energy Physics Laboratory were some of the best. The work was interesting and challenging and the people -- well, what can I say? I had the privilege of working with some of the brightest lights in microwaves and atomic physics. Names like Nalos, Chodorow, Khyl, Ginzton and Panofsky come to mind.

There were six of us employed full time, two electricians and four technicians. We rotated the duty of keeping the vacuum system cold-traps filled with liquid nitrogen on a 24/7 schedule and every morning we'd check the list of items from the previous night's run and divide the workload -- breakdowns to be repaired and new equipment to be built and installed. And there was routine maintenance and ongoing construction as the accelerator grew from 100 feet and ten klystrons when I arrived on the scene to it's full potential of 220 feet and 22 klystrons when I left for active duty with the Navy.

Electrical breakdowns were frequent, requiring replacement of components or wave guide sections that had seen internal arcing or corona discharge. Most problems, however, involved vacuum leaks. They were difficult to locate. Parts of the machine would have to be isolated one by one, injected with ether and probed with an electronic "sniffer" that would give off a warbling audio tone that rose or fell depending on the amount of ether detected. The combination of ether fumes and Theremin-like sound made the whole process weirdly akin to a bad sci-fi plot -- you know, *"Anesthesiologists from planet-X"*.

The Mk-III was a dual-purpose machine. It's primary purpose was to investigate the nature of matter at the atomic level but its secondary purpose was to learn how to build linear accelerators. This meant simultaneous operation and construction. We were under pressure to keep the flow of research on schedule, if such a thing as research can be scheduled. There was always a backlog of experiments waiting to be run and the probability of running them depended on the readiness and the reliability of the machine itself.

By their "blue skies" approach and temporary nature, experimental setups required a high degree of innovation. Drawings were, at best, rudimentary sketches. A physicist would say, "I need to measure something. What can you build to do it?" Never mind that the apparatus would have to be vacuum tight and "float" at 400 KV! We'd build or lash together whatever was required and sometimes it would even work.

Along with the high voltage buses there was a network of overhead cable trays jam packed with signal and control cables connecting the operating console to various parts of the machine and to the end station where temporary experiments were set up. No system of cable identification had been established. As soon as one experiment was terminated, cables were simply disconnected and abandoned and new cables run for the next setup. It wasn't until several years later when we built the Mk-IV

accelerator that we installed a permanent system of marked cables for temporary use by experimenters.

The Mk-IV Accelerator was a great improvement over previous machines. It was smaller than the Mk-III and located below ground, making radiation shielding much simpler. By then, most of the bugs had been worked out of the basic design and many of the components were built with an eye to using them in a proposed 2-mile long, 1 GEV accelerator.

Radiation was always an issue. The accelerator and the klystrons emitted a great deal of neutron, x-ray and gamma radiation. Everything that could be shielded was surrounded by iron ore filled concrete or lead and every access to a hazardous area was interlocked. We wore radiation monitors and exposure records were kept religiously. The problem was that little was known about the cumulative effects of the kinds of radiation we were exposed to so there were no established standards for absorption.

My workbench was located on a balcony above the operating console and almost directly above one of the klystron amplifiers. One day it occurred to someone to check radiation levels in the electronics shop. The klystrons were lead jacketed and relatively safe to approach at ground level but to date no one had checked the area directly above them. It turns out the klystron was emitting a vertical beam of high-intensity x-rays not three feet from where I worked. I was lucky. An equipment cabinet stood just above the beam and blocked direct exposure.

I was finally called to active duty in December of 1954. I'd enlisted in the Navy Reserve as a Radioman but as I gained experience at Stanford I requested a transfer to Electronic Technician and was assigned to a repair ship where I continued working with microwaves throughout my enlistment. When I returned to civilian life in 1957, I went to work for *Alfred Electronics* where I specialized in the application of traveling wave tube amplifiers and backward wave oscillators to airborne RADAR countermeasures. Then I returned to Stanford to help construct the Mk-IV linear accelerator. Three years into the Mk-IV project, I was designing control circuits and managing a seven man installation crew when someone looked in my personnel file and discovered I didn't have a degree. I was told that if I wanted to continue working there, I would have to take a demotion and a cut in pay. That was the end of my career in the microwave industry.

Paul Honore' W6IAM
Rev-2 Aug 2010

HAM HELPS HAM IN ARKANSAS ROAD ATTACK

Whether it was road rage or an attempted robbery nobody is quite sure.

But on the morning of August 22nd, David Terrell, N5YLG, was driving on Interstate 30 between Texarkana, Texas, and Malvern Arkansas when someone rammed the rear of his car two or three times. Terrell works for a drug company delivering to nursing homes and hospitals. Luckily his company car is a retired police cruiser that had the speed to outrun the would-be attackers.

At the time of the skirmish, Terrell was in an area where there is no cell phone coverage. However he was able to contact Timothy Leet, K5RQO through the 147.120 repeater in Benton Arkansas. Leet, who is a former emergency dispatcher was able to make phone contact with the Arkansas State Police and Clark County Sherriff's office. Working with the sheriff, he was able to coordinate an intercept to assist N5YLJ. Authorities located Terrell and found that was alright except for some aches and pains. At airtime, the person or persons who rammed Terrell's car are still at large. (KC5JUQ)

RESTRUCTURING: INDIA GIVES ITS HAMS 6 METERS

Hams in India have been granted a new allocation on 6 meters.

According to the Ohio Penn DX Newsletter, the new allocation permits F1B, F2B, F3E, F3C modes from 50 to 54 MHz using 25 watts maximum power. Modes overlooked or purposely not allowed are CW, SSB and several others popular on the VHF and UHF bands.

In addition to the new 6 meter allocation, India's licensing structure has now been restructured with only two classes of license. These are the Restricted and the General and both will be issued with either a 20 years or lifetime license term. (VU2PTT, OPDX)

Short and sweet:

Remember to check out the new "Shop N Swap" page on the Club website...
Go to www.olyham.net then click on the image:



Follow the directions of that page to list your own items wanted or for sale!

Club Committees

Technical Co-Chairs: Bob Sampson, K6MBY
Steve Debiddle, W6MPD

Membership Chair: Becky Winters W7RJW

Activity Chair: Callie Kroll N7YMU

Program Co-Chair: Janet Parris WA7JEP, Bill Carter W7WEC,
Chuck Jones N7BV

Field Day Co-Chairs: Dennis Tilton, AD7TV Al Fisk KD7TFK

PIO Chair: Becky Winters W7RJW

Net Coordinator: Becky Winters W7RJW

Health and Welfare: Chuck Jones N7BV, Rich Golding N7NCN

Web Site: Rik Scairpon, WX7RIK, David Hannon KE7TTT, Bob Sampson K6MBY, Al Popowski
W7ALP

EME News from Clallam County



Rick Perry, W7AV, while not a club member, is due a round of applause for his 2 meter EME (EarthMoonEarth) accomplishment. He has built a “peanut whistle” EME station, as compared to others around the world, but has succeeded in working a number of countries with his 12x4 antenna and 100 watts on 2 meter with an Icom 746Pro. I know he has worked Serbia, Italy and a number of Russian stations using the WSJT JT65B mode of transmission.

The picture on the left is his 4 stacked MSquared 12 element horizontal and 12 elements vertical beams. Due to Faraday rotation the signals coming back from the moon can be either horizontally or vertically polarized. A switch is used to transfer the antenna coax from horizontal set of antennas to the vertical set of antennas.

So, a 450,000 (average) mile round trip QSO on 2 meters.... Not bad for 100 watts.

In the background on the left, by the house, is the KSQM FM antennas.

Bob, K6MBY

PROGRAM **FOR** **September** **8th**

Working on it.

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Clallam County Amateur Radio Emergency Service (CCARES)

The Clallam County ARES is organized in two levels; as an affiliate of ARRL/ARES and as the recognized RACES organization by the Clallam County Division of Emergency Management. Membership in CCARES is open to all licensed Amateur Radio Operators that are residents of Clallam County, who first register with ARRL/ARES through the Emergency Coordinator. They are not required to attend training meetings and function as a second response unit in emergencies.

CCARES members in good standing may register in the RACES program with the Clallam County Division of Emergency Management (CCEM) and serve as a primary responder during emergencies. RACES members are the core of the organization and are expected to attend training meetings and participate in drills and other events.

FOR SALE OR TRADE

Kenwood TS-180S transceiver with second Kenwood VFO,
SP-180 speaker with built-in filters
DSP90 audio digital signal processor
MFJ 1274 tnc
Rig Blaster M8 (without cable)
Japanese code key (bug)
Home brew 13.8V power supply for station
All Kenwood equipment tested good on-the-air.

All for \$350

Contact: Dennis Tilton AD7TV

452-1217
460-7911

Your Ad Could Go Here

Your Ad Could Go Here

FROM OUR TREASURER:

First Federal Savings & Loan of Port Angeles Balance: \$ 7,728.50

Outstanding Cheque: - 7.91

Checkbook Balance: \$ 7,720.59

BIRTHDAYS:

Cowen, Stan	KI6HCW	Sep-06
Metz, Chuck	W5RFL	Sep-16
Metz, Robert L.	KF7JQV	Sep-22
Wilson, Kline	W7CNN	Sep-24
Wilson, Robert C.	AL7KK	Sep-28
Fontaine, Maureen	KH6MF	Sep-29
Lapin, Allen	KD7JTH	Oct-05

YL's Birthdays for the same period:

Sampson, Cathy (Bob, K6MBY) Sep-11

Happy Birthday!

**Please welcome the following
new members who joined the CC-ARC
recently!**

No new members this month

NEXT YL LUNCHEON**Sergios****Sept 10th****Time: 11:45 a.m.****Find us on the web at****www.olyham.com****Check it out. Lots of
information about ham radio
in Clallam County!****2010 YL Luncheons:**

2010 - CCARC Ladies Luncheon Schedule

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

July - Toga's - 122 W. Lauridsen Blvd. - Port Angeles

August - Tarcisios - 609 W. Washington - Sequim

September - Sergios - 205 E. 8th - Port Angeles

October - Fortune Star - 145 E. Washington - 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, first Tue of every month	Clallam County Courthouse EOC, 223 E. 4 th St., PA	Dan Abbott N7DWA 360-582-3824
Clallam County Amateur Radio Club general meeting	7 pm, second Wed of every month	Olympic Hospital Linkletter Room, PA	Tom Newcomb KE7XX 360-452-8228
Clallam County Amateur Radio Club social breakfast	8 am, first Sat of every month	Joshua's Restaurant Hwy. 101 & Del Guzzi Dr.	Tom Newcomb KE7XX 360-452-8228
Clallam County Amateur Radio Club YL social lunch	11:45 am 2d Fri of every month	Rotates - announced on Thursday night Net	

CLUB OFFICERS For 2010**President:** Nita Lyman KE7DRT 360-461-4629 Nita_lyman@yahoo.com**Vice President:** Dennis Tilton AD7TV 360-452-1217 3tiltons@wavecable.com**Secretary:** Bill Carter W7WEC 360-6814375 w7wec@arri.net**Treasurer:** David McCoy KE7JEJ 360-457-8550 mccoy.d.r@olypen.com**Board Member (Chairman):** Johan Van Nimwegen KO6I 360-681-7300
jvn@olypen.com**Board Member:** Al Dawson W7YLV 360-457-0752 adawson@tfn.com**Board Member:** Chuck Jones N7BV 360-452-4672 N7BV@yahoo.com