

## CLALLAM COUNTY AMATEUR RADIO CLUB

# QTC

APRIL 12

### A Resource Net Control Station for ARES

Paul Honore' W6IAM



Several people have asked about my radio shack and why it is configured the way it is. Part of the answer is that it evolved over a period of years. The rest of the answer is it is intended as a Net Control station for ARES. Let me explain.



There are several ARES radio rooms located at strategic points throughout Clallam County. The center of operations is, of course, the EOC in the basement of the Port Angeles Courthouse. ECCs are located in Diamond Point, Sequim, Port Angeles, Clallam Bay and Forks. ARES Radio rooms are located in both hospitals and we maintain radio communication with the American Red Cross and the Lower Elwha tribe. To keep traffic flowing smoothly between these facilities, networks operating on HF, VHF, UHF and Packet modes are used.

My job as Resource coordinator is to activate the emergency callup phone tree and operate the Resource Net to assign and track qualified operators to staff the radio rooms and auxiliary field positions as directed by the EOC. Since the Resource net is remotely located from the EOC, I found it desirable to monitor traffic on our primary operating frequencies as well as activity on the County Web-EOC in order to anticipate needs and respond to rapidly changing conditions.

Over a period of several years, I acquired the needed equipment and assembled a workable Resource station but, as the station grew, it became an unreliable sprawl of boxes and cables. How to organize it into a compact and ergonomically functional operating environment? I divided the task into three sections: The power supply; The antenna farm; The operating console.

A 24/7 source of power was a primary concern since the station is located in an area where power outages occur frequently, especially in winter when ARES is most likely to be called for emergency communications. A 35 Amp regulated power supply and a large 12 Volt lead-acid battery are "auctioned" via Schotky isolating diodes to keep the radios operating continuously, regardless of mains power. **Continued on Page 3...**

**Get Your License Here!**

Classes scheduled for  
**April 7, 14, 21, 2011.**

Call **Chuck** N7BV 452-4672 for information or see the clubs website at **olyham.net**.



Chuck N7BV  
ARRL VE-L

**Website Hit Counts**

Visits

Page Views

*This**Week: 40**93*

*Look for more pictures of W6IAM's  
Impressive Resource Station on our site*

**THANKS RIK! -ed**

**Echolink on W7FEL**

Echolink has been up and running without failure since it was returned to me in mid-December. There have been in the area of 30 accesses to the clubs Echolink service since December 20th.

Most of them have been from local club members but several have been from out of country. Africa, the UK and Germany EchoLink users check in but I have no idea whether anyone was on to talk to them or not.

If you have difficulty with Echolink please drop me an email and I will look into the issue as soon as possible.

**Bob** - K6MBY@olypen.com

Program for:  
**APRIL**

**Jim Fenstermaker, K9JF, ARRL  
Northwest Division Director**

**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.

## A Resource Net Control Station for ARES

By Paul Honore' W6IAM

*Continued from Page 1*

The computer is powered by an APC backup supply that allows enough time to switch everything to a 5kW Pramac generator chosen for its reliability and extremely pure sine wave output. The lead-acid battery is located on a balcony in a weatherproof container. Battery, generator, ground and antenna leads are fed through a panel mounted in a window opening behind the console.



The operating console is mounted atop an old drafting table, allowing ample work space with a County map and critical reference information mounted under a clear plastic writing surface. It slopes back at a 15 degree angle and is divided into three sections. The center section houses the computer monitor for logging, Web EOC, and Airmail-packet operation. The left hand section houses the 80-10m HF transceiver, antenna tuner, 80m/60m antenna switch and the 2m transceiver. The right hand panel houses the 12VDC distribution and monitor panels, the 2m packet transceiver and TNC, and the 70cm and 6m transceivers. The equipment is mounted on individual pull-out panels for easy maintenance and to allow any transceiver to be quickly removed for portable or mobile use.

A pull out surface for the keyboard and mouse, and a drawer module for incidentals is mounted beneath the table top. The computer tower, APC supply and battery charger are located below the drawer unit.

Since all of the radios need to operate simultaneously, each requires a separate antenna. The antenna farm consists of verticals except for 80m and 60m horizontal dipoles. The 2m/70cm antennas are Arrow J-poles. The 6m J-pole is home brewed from copper water pipe. The packet antenna is a 2m ground plane fabricated from bronze brazing rod. The 40m-10m HF antenna is a Cushcraft R-8 vertical. The 80m and 60m antennas are home-brewed coil loaded dipoles tuned to our primary ARES operating frequencies and mounted one above the other, about 20 feet off the ground for NVIS operation.

The station has been operating in this configuration for three months and I find it comfortable and efficient but mounting ham radio equipment in this fashion is risky business since stations continuously change configuration with emerging technology and new operating modes. ARES operations are expected to keep pace with the needs of our served agencies and I suppose this will be reflected in the station layout in the future. By making it modular with removable front panels, it should be flexible enough to meet new requirements as they occur.





# AMATEUR RADIO LICENSE CLASS

**Date: April 7, 14, 21**  
**Time: 0900 to 1700**

**PA Fire Department**

**5th and Laurel Street**

**EXAM: April**

**21, 2012 at 1300**

Anyone interested in earning their entry level, (Technician class) Amateur radio license or the Intermediate level (General Class) is invited to attend three classes on successive Saturdays, starting Saturday, April 7, 14, 21th, in the training room at PA Fire Department 5th and Laurel. The classes will run from 0900 to 1700 with an hour off for lunch. April 21st is class and review in the morning. The examination session is at 1300L.

Candidates will learn Rules and Regulations, Basic Electronics, How to Operate, and Radio Frequency Safety.

There is no cost for the class, which is presented by volunteers from Clallam County Amateur Radio Club. Candidates must purchase an American Radio Relay League Technician or



General License Manual at a cost of \$29.95. Direct at <http://www.arrl.org/catalog/> These manuals are also available from Dennis Tilton, who may be reached at 360-452-1217. (Save on shipping costs.)

The exam session cost is \$15.00 for processing.

Those earning their license will be allowed to communicate with other hams world wide, and to participate in the Amateur Radio Emergency Service, an important part of Homeland Security.

For more information, or to register for the class, call Chuck Jones, N7BV, at 452-4672 or Dennis Tilton at 452-1217.



**CLALLAM COUNTY AMATEUR RADIO CLUB**

**GENERAL MEMBERSHIP MEETING**

**WEDNESDAY, MARCH 14, 2012 AT 1900 LT**

1. Call to Order 1900 by Vice President Al Popowski, W7ALP
2. Pledge of Allegiance
3. Followed by Self Introductions
4. General Announcements
5. Presentation by Bill Carter, W7WEC, Email by Packet Radio
6. Break: 2007, Meeting called to order by VP W7ALP, 2017.
7. Old Business
  8. Vacant Treasurer position, Motion to nominate Mike Rice for Secretary, close nominations and cast a unanimous ballot for Mike Rice made by Janet, W7JEP, and second by Bob, K6MBY, motion carried.
  9. Approval of Minutes of last meeting, motion made to adopt the minutes as published in the QTC made by Bob K6MBY, Second by Jeramey, KF7PMC motion carried.
10. New Business
  11. Officer Reports
    12. President - Personal Commitment had to leave early.
    13. Vice President - None
    14. Secretary - VACANT
    15. Treasurer
    16. \$7,110.23 as of 31-FEB-12, last month \$160. in income.
    17. Chairman of the Board
    18. Verbal summary by Jeramey of the Board Meeting from earlier today.
    19. Repeater Trustee - Absent
20. Committee Reports
  21. Activities - Absent
  22. Public Relations - Absent
  23. Publications - Send in your articles or suggestions, Jeramey KF7PMC
  24. Membership - None
  25. Health and Welfare - Al, KD7TFK
    26. Al saw Callie at Costco today, she is recuperating well, walking with no cane!
  27. Technical - None
  28. Field Day
    29. Site: Clallam County Fairgrounds
  30. CCARC 2 Meter Net - Absent
  31. Education and Training
    32. Next class is scheduled for April per Chuck N7BV
  33. Website Administrator - ABSENT
    34. Send an email to Rik if you see anything needing updating, or have new information.
  35. Motion to Adjourn by Bob (K6MBY), Second by Jeramey (KF7PMC), motion carried, meeting adjourned at 2035.

Respectfully submitted,  
Jeramey Johnson, KF7PMC

**CLALLAM COUNTY AMATEUR RADIO CLUB**

**EXECUTIVE BOARD MEETING**

**WEDNESDAY, March 14, 2012 AT 1118 LT**

Present: Chuck Jones, Dennis Tilton, Ernie Griffith, Jeramey Johnson.

Absent: (Secretary - Vacant), Al Popowski (VP), Rebecca Winters (President) Treasurer (Vacant)

Guests Present: Paul Benadum & Dan Smith (KD7UFF)

1. Call to Order
2. Approval of Agenda
3. Old Business
4. Scholarships
  5. Motion made by Chuck, N7BV, Second by Jeramey KF7PMC, to support ARRL Scholarship fund in amount of \$100.00.
  6. Will investigate status of Bob Kennedy Memorial Scholarship fund and make appropriate calls.
  7. Repeater Maintenance Issue
    8. Discussed current state, and need to visit repeater site in conjunction with West End improvements.
  9. Field Day Status
    10. Chuck reports that Field Day is semi-on track for status.
11. New Business
  12. West End Repeater Access
    13. Dan (KD7UFF) will contact Casey Hicks to ask if he remembers what antennas were used for West End access to W7FEL.
    14. Additionally, a thirteen element yagi will be tested from Forks Hospital to see if it is possible to hit KF7FEL with current antennas on Striped Peak, reporting findings to CCARC Board.
  15. Review of Expenditures and Revenues
    16. Ernie presented expenditures - none since last meeting, motion made by Chuck, N7BV and second by Jeramey, KF7PMC to approve all transactions as posted 8-Feb-2012 thru 14-Mar-2012, revenues from Membership Dues have been collected and Ernie will send a updated membership list shortly.
  17. Next Meeting: Wednesday, April 11, 2012 @ 1100 Smugglers Landing.
  18. Motion to Adjourn Dennis, Second by Ernie, motion passed 1159.

Respectfully submitted,  
Jeramey Johnson, KF7PMC





## Amateur Radio Equipment

- 1 ICOM 706 Transceiver w/mounting kit
- 2 Kenwood TH-22AT 2 mtr HT
- 3 MFJ 4225 MV Power Supply
- 4 Dipole antenna kit 20 thru 6 Mtr
- 5 Straight key w/Morris Code CD
- 6 Super Antenna Mount
- 7 Mobil Mag Mount 2MtrAntenna
- 8 LDG AT-7000 Antenna Tuner
- 9 Radio Shack TRC-225 CB Transceiver
- 10 Midland 75-784 CB Transceiver
- 11 Cobra CB Mag Mount Antenna
- 12 BNC Coax Cables Various lengths
- 13 Various power adaptors 110 vac to dc.
- 14 50 ft speaker wire
- 15 Drink holder/radio mount
- 16 Two Uniden GRMS 2 Way Radios W/ Charger
- 17 ACER 19" Computer flat screen
- 18 Dell Computer Speakers
- 19 Kaspersky Internet Security Software 2011
- 20 Radio Shack 10 mtr mobile Transceiver HXT-10

**BEST OFFER SALE**

Contact:

**Richard****WA6CUE****wa6cue@olypen.com****Tel: (360) 477-5039**

## 2nd Clark County Ham Fair Annual

**August 25th, 2012**  
**9:00 AM - 4:30 PM**

Whether you are looking to sell or buy, this is the place to be

**Door Prizes, Raffle, Food,  
 Consignment Table, Short Seminars,  
 and Much Much More**

## Entry Fees:

- \*Pre-Registration: \$6.00  
 At The Door: \$8.00  
 Tables: \$15.00  
 \*\*RV Camping (Fri - Sat): \$20.00



September 24, 2011  
 Photo by: John Allen N9YQ

\* Pre-Registration ends August 4, 2012  
 \*\* This is a per-night, per unit fee (dry camping only)

## Location:

**Clark County Square Dance Center**  
**10713 NE 117th Avenue**  
**Vancouver, Washington**

## Talk-In Frequencies

147.240 MHz (No Tone) 443.925 PL 94.8  
 146.520 simplex

For more information go to [www.w7aia.org](http://www.w7aia.org)  
 or email: [clarkcountyhamfair@w7aia.org](mailto:clarkcountyhamfair@w7aia.org)

Sponsored By  
 Clark County Amateur Radio Club



**The Northwest's Largest Ham  
 Convention -  
 30th Anniversary**

**Seaside Convention Center**  
**Seaside, Oregon**

**June 1, 2, 3, 2012**

**[www.SeaPac.org](http://www.SeaPac.org)**

## Maidenhead Map Link

<http://f6fvy.free.fr/qthLocator/fullScreen.php>

You can click and drag, or type a locator into the box in the middle at the bottom.

Submitted by Chuck - N7BV

## W1AW TOUR

Take an 18-minute video tour of  
ARRL headquarters' flagship Amateur  
Radio Station W1AW.

<http://www.arrl.org/w1aw>

Feedback, Comments or Article  
submissions are appreciated to  
  
CCARCQTC@Yahoo.com

**Thank you for your  
Contributions, Ed**



**Find a wealth of  
information and  
links on the club  
website:  
[OlyHam.net](http://OlyHam.net)**

**Thanks to Website Administrator Rik, W7RIK!**

## QST! Calling All Volunteers FIELD DAY 2012

Field Day which will be held **June  
22 – 24** at the Clallam County Fairgrounds.

We can use all the hands we can get to help with set-up on **Friday**, June 22, 2012, starting at NOON. Everyone will meet at the Field Day site. Then around 1300 (that's 1:00 PM for those of us who don't read military time), we will start getting the equipment to the site and setting up.



Now, I have heard in the past this one question, "Why are we setting up so early if this is supposed to be an emergency exercise?" The answer to that question is simple; we are open to the public on Saturday from noon to 1600 (4:00 PM) and we would like to be semi-rested by that time.



Don't forget the Member Potluck!

On Saturday, June 23, we hope to see all club members at the event. Come and see what we are doing

Sunday, June 24, 2012, 1100 (Yep, that's 11:00 AM), we will start tearing everything down and packing up. All hands on deck and ready to work. Most on site will have been up for most of the night so those who got some sleep are very much needed. Everything has to be returned to the storage shed and the event site cleaned up and left in better shape than when we got there. Leaving it clean will mean we can come back next year and enjoy the shade of the trees.

Please participate in the upcoming Field Day Planning at our monthly Club meetings. Field Day is not possible without much support of our Membership and Committee Chairs.





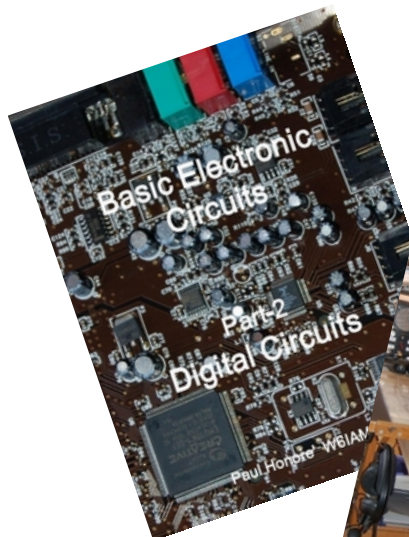
Available from  
[www.lulu.com/spotlight/HonoreW6IAM](http://www.lulu.com/spotlight/HonoreW6IAM)

Basic Electronic Circuits,  
 Part-1 Analog Circuits

Basic Electronic Circuits,  
 Part-2 Digital Circuits

Basic Electronic Circuits,  
 Part-3 The Practical Radio Shack

By CCARC member, Paul Honore' W6IAM These books are a non-threatening Introduction to the technical aspects of Ham radio



## CLALLAM COUNTY AMATEUR RADIO CLUB REPORTS

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### FROM OUR TREASURER:

As of March 31 , 2012:

First Federal Savings & Loan of Port Angeles Balance:	\$ 7271.29
Outstanding Cheques:	\$0.00
<b>Checkbook Balance:</b>	<b>\$ 7271.29</b>

Thanks,

*Ernie Griffith*  
 W7EWG  
 CCARC Treasurer

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## COMING EVENTS

**JUNE 1-3, 2012**  
 SEA-PAC

Seaside Oregon Convention Ctr

**<http://www.SeaPac.org>**

## CLUB OFFICERS For 2012

**President:** *Becky Winters, W7RJW*

**Vice President:** *Al Popowski, W7ALP*

**Secretary:** *Mike Rice, KD0NND*

**Treasurer:** *Ernie Griffith, W7EWG*

**Board Member (Chairman):** *Chuck Jones, N7BV*

**Board Member:** *Dennis Tilton, AD7TV*

**Board Member:** *Jeramey Johnson, KF7PMC*

**YL LUNCHEON**

April 13  
**Oak Table Cafe**  
 292 W. Bell Street  
 Sequim  
 Time: 11:30 a.m.

**Find us on the web at**

**www.olyham.com**

**Check it out. Lots of  
 information about ham radio  
 in Clallam County!**

**2012 YL Luncheons:**

Reservations 11:30 2nd Friday of each month

April - Oak Table - 292 W. Bell - Sequim  
 May - Downriggers - 115 E. Railroad Ave. - Port Angeles  
 June - Mariner - 707 E. Washington - Sequim  
 July - Gordy's Pizza & Pasta - 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. - 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 <sup>th</sup> St., PA	Al Dawson, W7YLV 360-457-0752
Clallam County Amateur Radio Club general meeting	7 pm, second Wed of every month	Port Angeles Fire Station 5 <sup>th</sup> & Laurel Streets	Chuck Jones, N7BV 360-452-4672
Clallam County Amateur Radio Club social breakfast	8 am, first Sat of every month	Joshua's Restaurant Hwy. 101 & Del Guzzi Drive	Chuck Jones, N7BV 360-452-4672
CCARC Board Meeting	11 April @ 1100	Smugglers Landing 115 E. Railroad Ave	Chuck Jones, N7BV 360-452-4672
Clallam Country Amateur Radio Club YL social lunch	11:45 am 2nd Fri of every month	Rotates - announced on Thursday night Net	Chuck Jones, N7BV 360-452-4672

**Happy Birthday!**

Bill Cozzoline

W07S

Stephen Baranowski

N1SB

Al Dawson

W7YLV

William O'Connor

KF7PMF

Nancy McPherson

W6JEQ YL

Eoin Doherty

EI7FXB

Roger Huntley

W7VV