



# DCARCCommunicator

Davis County Amateur Radio Club

Editor - Lon Stuart WM7E

December 2008

## The Pres Says:



Hello Everyone!

The Year is coming to an end. I am happy to say that as a club we have had many fun and informational meetings. We also have had several opportunities to practice and perhaps show off our radio skills. Field Day,

Summer Parades and Races are only a few ways we have been able to do this.

Let me this moment to show my gratitude to everyone. Thank you for letting me be your president for the last two years. Thank you for your support for coming to meetings and special events. Thanks for being a great group, for working so well with each other. Have a happy Holiday season and a great New Year.

-- Alia Zundell, KD7JGA, 2006-2008

Let's all give Alia a big "Thank You" for shouldering the DCARC Club for two years. She has done a great job and the club has moved forward under her leadership. She's at: [kd7jga@arrl.net](mailto:kd7jga@arrl.net)

It's time now to elect someone else who can do as great a job for our club as Alia -- Who will it be?? See the January DCARCommunicator --The Editor

## JOTA Report

By Matt Zundell, KD7HHW

This last October, the club helped sponsor JOTA. JOTA stands for Jamboree on the Air. This is a world-wide event where scouts all over the world take to the airwaves, with the help of licensed amateur radio operators. JOTA is a wonderful opportunity to show the scouts just what amateur radio is all about.

Working with the TrapperTrails Council, we have a structured program to teach the scouts theory as well as watch and/or talk on the radio. When the program is followed, each scout will have the ability to have their blue card signed for the Radio Merit Badge.

## DCARC 2008 Treasurer's Report

By Gary Johnson, N7DND, DCARC Treasurer

### Income/Expense Comparison by Category

Category Description	\$
<b>Income</b>	
Radio Prize Tickets	530.00
Club Dues	1173.00
Div Income	4.22
<b>TOTAL INCOME</b>	<b>\$1707.22</b>
<b>Expenses</b>	
ARRL	493.00
Box rent	40.00
Field Day	34.53
Gifts Given	318.68
<i>(Radio - December 2007 Meeting)</i>	
Insurance	320.00
Newsletter	633.06
Park Rent	50.00
Repeater	00.00
Supplies	00.00
Tax/Trailers	62.00
War Wagon	00.00
<b>TOTAL EXPENSES</b>	<b>\$1951.27</b>
<b>OVERALL TOTAL</b>	<b>-\$244.05</b>

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This is perhaps the easiest way to earn this merit badge; most of the boys take this chance to get the merit badge.

This was my first time as JOTA Chair. Not everything ran as smoothly as I would have wanted, but we managed. I want to thank all individuals that were involved to help make JOTA happen. About 140 boys attended with about 130 of them getting their merit badge. We could use your help next year. See you there!

Don't forget the **DCARC Meeting December 13th** at the Davis County Sheriff's Office auditorium. Elections and Build-it-yourself projects will be featured.

# FCC Maximum Permissible Radiation Regulations

Continued from last month

Here are some excerpts from the FCC website that address some commonly asked questions about RF radiation:

## WHAT IS "RADIO FREQUENCY" AND MICROWAVE RADIATION?

Electromagnetic radiation consists of waves of electric and magnetic energy moving together (i.e., radiating) through space at the speed of light. Taken together, all forms of electromagnetic energy are referred to as the electromagnetic "spectrum." Radio waves and microwaves emitted by transmitting antennas are one form of electromagnetic energy. They are collectively referred to as "radiofrequency" or "RF" energy or radiation.

(Go to Page 4.)

Unable to exit windows. Try the door.  
Windows loaded - System in danger.

## War Wagon Report

By L. Brent Thomas, AC7H

Lou Little, W7JOF, and L. Brent Thomas, AC7H visited the DCSO and did some general maintenance.

Generators: Tested and ran for about 35 minutes. Batteries were ok and they got an additional charge while running the generators. Fuel was filled up to approximately 3/4 level. All looked and worked well.

WAR Wagon: Someone plugged in the AC cable to the Maintenance building, but left all the AC breakers in the ww turned off, which means the batteries were not being charged. We intended to load test the batteries hoping they had a full charge, the batteries measured 12 volts, so the test we made was marginal, but they were not too bad. We will make another load test next club meeting. We placed four replacement batteries in the war wagon (two attached to the existing bank and two still in boxes). We found the battery charger had a blown fuse, replaced and put batteries back on charge (we need to get some replacement fuses of that size in the ww)....

Note: Anyone using the ww in the near future needs to be aware of the batteries in back are not anchored in place. Gary Johnson, N7DND, has volunteered his garage after first of year to install the batteries, install an additional new solar panel, see if we can do something about the water leak on the roof, and any other projects that we come up with.

See Next Column

## DCARC Organization

President	<b>Alia Zundel, KD7JGA</b> kd7jga@arrl.net	
Vice President	<b>John Leary, K7JWL</b> John9mm@gmail.com	
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Treasurer	<b>Gary Johnson, N7DND</b> n7dnd@arrl.net	292-1212
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Official Photographer	<b>Matt Zundel, ND7HHW</b>	
Education Chairman	<b>J.R. Westmoreland, W7JR</b>	
Webmaster	<b>Matt Zundel, KD7HHW</b> webmaster@dcarc.net	731-8939
ARES (State)	<b>Jerry Wellman, W7SAR</b>	
ARES (Davis Co.)	<b>Tim Seeley, KK7EF</b>	544-7928
VE Exam Chairman	<b>Mike Youngs, KK7VZ</b>	
DAV Node Coord.	<b>John Mabey, W7CWK</b>	
JOTA Chairman	<b>John Moyer, KG7DE</b>	
War Wagon Chairman	<b>Hall Blankenship, KC7RAF</b> kc7raf@arrl.net	292-1695
Antenna Trailer Coord.	<b>Position open</b>	
Club Bookstore	<b>Brent Thomas, AC7H</b> ac7h@arrl.net	292-8110
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The DCARCommunicator is written, typeset and printed in the good ole' US of A by the Davis County Amateur Radio Club. The club is an affiliate of the American Radio Relay League (ARRL) and is incorporated in the State of Utah. The club meets on the second Saturday of each month, unless other circumstances dictate changes. The meetings are held at the Davis County Sheriff's Office, 800 W. State St., Farmington, UT. Dues are \$15 per year individual; \$20 per family; \$10 Senior Citizen over 65 years and Free for 105-year-old geezers... Dues may be mailed to the address above or be paid in person at the club meeting. Typesetting is accomplished by a troop of Trolls, plying their trade under the Club Bookstore table, where Editor WM7E is trying to shoo them away. They don't know that email has made them all obsolete, but he's not about to tell them the sad news because of all of the many typos they have madly introduced into his club newsletter.

AC outlet for war wagon - I talked with Brad, KJ7NO, DCSO, and Mitch about installing an outlet near the corner of the Maintenance building near the ww. Mitch tentatively has it scheduled for install next week. I also asked him about the Propane at the repeater site on the Island. He indicated he was going to the island this week.

Having been erased, the document you were working on must now be retyped.

An error has occurred - could be anything really.

*THE EMCOMM ALLEY***ARES NEWS**

By Tim Seeley, KK7EF

Things still tend to be tumultuous in some parts of the country, fire and weather-wise, while we have our once a month storms. Moab this last month had their little scare and evacuations. I haven't heard if the Simbad group got involved in the tamarisk and sage fire in the wildlife refuge area west of town or not. A good part of those who would have been evac'ed would have been travelers, since it was motels and RV parks that were affected. I would guess Red Cross shelters popped up to help them. This was a small incident affecting a very local area but still could have been worse.

To me, Fall is the time for outdoor antenna work with the lawn and garden already put to bed. I finally got an omnidirectional antenna up for 2 meters, I have been running a yagi and periodically doing a net from my home. It wasn't working 100% for the folks in the northern part of the county.

The Red Cross Ogden chapter has replaced their liaison with ARES and he is a ham. He is George Muller, KE7TQT. Please welcome him if he joins us on our nets.

The repeater site at the sewer process plant (that I have dubbed "The Hundred Acre Wood") has a new coat of tar to protect from moisture, corrosion and crumbling. Why is it named that? If anyone has an idea -- email [kk7ef@arrl.net](mailto:kk7ef@arrl.net). I may answer it next month....I may just give hints.

Thanks go to Gary Carroll, who responded for a need to get the antenna trailer leaky tires repaired in time for the National Weather Service Skywarn special event station the first week of December.

The Utah State Emergency Communications Plan has been unveiled and it relies on Information or Resource nets. (We'll Have that in the January DCARCommunicator -- Ed.) This would be a place for all hams to deposit and retrieve VERIFIED pieces of information. It would also be where you would check in to say you are available and be assigned. This means we will set up 147.040 R as our resource or info net if the need arises. Anyone can start an info net. Bad weather or road closures or something that may have widespread interest to the ham community is reason. Many times you have heard: Is the power out in your neighborhood? If a communications emergency arises an ARES officer should be notified; see the call-out list. Please note our resource net is shared by Morgan County and is flexible depending on our circumstances. I will include more on mutual aid and frequencies next time.

Byron, NJ7J, has been linking IRLP and Echolink to our Thursday night nets. If you have 440 capabilities, the 448.825 - R pl. 123, is now linked to the net as is 449.950 - R pl. 123. Both of these are in Clearfield, the 448 machine has Echolink and IRLP capabilities. These two additions would enable outlying locations that would not normally have access to the 147.42 S or the 449.925 -R. Hope you can join us on Thursday nights @20:30 hours. Thanks Byron!!

I asked John Gold to outline the drill conducted in Centerville. I will report on the Node drill conducted by the Health department next time.

Those of you who are into packet, we will be practicing (in converse mode at first) 15 minutes prior to net time on 145.070. Contact net control Bob Jones, AK7B, if you need to on 147.040 R on voice.

.... Until next month, I'll see you in *The Alley*.

Tim    \_ . \_ . \_ . . . . .

Windows has detected that there is no keyboard present. Hit F1 to continue.

# Centerville Mock Disaster - November 1<sup>st</sup>, 2008

By John Gold, N7UPI, and Scott Gold, KD7TLZ

“It has been snowing for about one week with more snow coming. Power has gone out, and buildings are in danger of collapse, this is a drill.”

The morning started by activating the Centerville EOC at the City Public Works Building. John Gold, N7UPI, and Scott Gold, KD7TLZ, joined with the city staff. Lt. Paul Child, KE7PRS, the city Emergency Preparedness Coordinator, was in charge. We utilized the '04 repeater in order to give coverage and also to allow other hams to monitor. The EOC did an ARES call up on both the '04 repeater and '42 to see who was on, and who would be available to respond, if needed. We had minimal response, and hope this doesn't happen during a real disaster.

Each of the districts met separately at their buildings and then broke into areas. The areas were then supposed to work through different problems in a table top setting, relay the information to the district, and then relay to the City EOC as needed.

The city had supplied various public service radios to be used within the districts. It was shortly noticed, especially within the North District, that the radios did not work properly. It was then up to the Ham Radio Specialists to pickup the communication and keep it flowing as an additional resource.

At the EOC, we utilized an Excel Spreadsheet projected on a screen so everyone present could see all of the occurrences. As the drill continued on, it became evident that the city would be over whelmed with all of the items occurring. Public resources became very stretched, especially fire and ambulances. At one point, the EOC had to say there were no more ambulances available, which was a wake up call for everyone.

At the end of the drill, the City had a debriefing. The comments I got were mostly about the communication problems that occurred. Scott and myself went to the debriefing in the North District. Praises for the Ham Operators were voiced and the concern for good communications. Also concerns for being more self reliant versus relaying on Civil Officials due to limited resources were discussed.

Many thanks to Joe Leery, N7PCS; Mike Thomas, KA7VCA; Brent Baxter, N7JHB; Marie Baxter, KB7ATT, Steve Tate, KE7RRC; and Jamie Tate, KE7RRA. With their help, it really showed the served agencies the importance of Amateur Radio.

(Fron Page 2.)

Illegal error detected - You are not allowed to make this error.

Often the term “electromagnetic field” or “radiofrequency field” may be used to indicate the presence of electromagnetic or RF energy.

The RF waves emanating from an antenna are generated by the movement of electrical charges in the antenna. Electromagnetic waves can be characterized by a wavelength and a frequency. The wavelength is the distance covered by one complete cycle of the electromagnetic wave, while the frequency is the number of electromagnetic waves passing a given point in one second. The frequency of an RF signal is usually expressed in terms of a unit called the “hertz” (abbreviated “Hz”). One Hz equals one cycle per second. One megahertz (“MHz”) equals one million cycles per second.

Different forms of electromagnetic energy are categorized by their wavelengths and frequencies. The RF part of the electromagnetic spectrum is generally defined as that part of the spectrum where electromagnetic waves have frequencies in the range of about 3 kilohertz (3 kHz) to 300 gigahertz (300 GHz). Microwaves are a specific category of radio waves that can be defined as radiofrequency energy where frequencies range from several hundred MHz to several GHz.

*(Look for more in next month's DCARCommunicator.)*

Your computer has performed an illegal operation. The police have been informed.

Fatal system error: Press F13 to continue...

# EComm HamFest 2009

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WEBER COUNTY SHERIFF'S COMMUNICATION TEAM  
&  
WEBER COUNTY ARES

**KEEP THIS DATE OPEN!!!**

Date: April 25, 2009  
Time: 09:00 hrs to 16:00 hrs  
Location: Browning Armory 625 E 5300 S So. Ogden Utah

**ARRL Sanctioned as the 2009 ARRL State Convention.**

There will be a Dinner Speaker from ARRL. More details to come on location and cost.  
Must pre-sign up for ARRL Dinner

REGULAR ADMISSION \$5.00  
Includes ticket for Raffle

SWAP MEET TABLES AVAILABLE  
*(SWAP MEET FROM 0900 TO 1800 HRS)*  
\$3.00 FOR HALF TABLE  
\$6.00 FULL TABLE

Some of our Class Offerings (completed agenda TBA):

- ERS and State Plans (Bob Craven)
- NIMS 100/200 Class with Certificate (Lance Peterson)
- DStar (Steve Carver)
- National Weather Spotter Refresher
- License Test Session (Mary Hazard and Larry Griffin)
- Communication Exercise (limited class size)
- "HF Everything" (Ray White)
- Hands on ATV / Packet / and much much more
- Emergency Response and Public Safety Displays and Vendors:



**Pre-registration information:**

Jeff Kinney: 801-782-7781 or [nokinney@comcast.net](mailto:nokinney@comcast.net)  
Ray White: 801-546-2549 or [crwhite@airmail.net](mailto:crwhite@airmail.net)  
Sal Salizar: 801-791-4023 or [sal84404@netzero.net](mailto:sal84404@netzero.net)

Yesterday it worked. Today it is not working. Windows is like that.

***Save the Date!! Don't miss Utah's premier annual  
Emergency Communications Hamfest for the latest in emergency  
training, networking and swap meeting***

Windows has just crashed. You are looking at the blue screen of Death. No one hears your screams.

Stycx -



Erroneous error - Nothing is wrong.  
Access denied—nah nah na nah nah!  
 Three things are certain: Death, taxes, and lost data.  
Guess which has occurred?  
 Error: An unspecified error has occurred. Please correct the error to continue.

**147.04 Repeater Autopatch**

**Emergency Dispatch Center Access Numbers**

910 Clearfield Dispatch	525-2806
911 Davis County Dispatch	911
912 Bountiful - NON Emergency	298-6000
913 Davis Co. - NON Emergency	451-4150
914 Hill AFB Security	777-3056
915 Layton Dispatch	544-1241
916 Weber Co. (Ogden City PD)	629-8221
917 Weber Co. (Roy Dispatch)	629-8221
918 SL Co. UHP	887-3800
919 Weber & Morgan Co. Sheriff	629-8221

**NOTE:** It is NOT necessary to use the autopatch UP code to use these Emergency Autopatch Access numbers. Just tap in the 9xx code for the center you want to access. Also note that if the issue does not involve a threat to life or property, then you should use the NON Emergency dispatch number, if available.

**The 3 minute call timer limit also applies to these calls.**

Getting tired of those error messages from your computer that don't mean anything sensible? Take a look at these...

**Error Messages You Don't Want to See:**



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