



# Greenwood ARS

VOLUME 4 ISSUE 12

DECEMBER

## 2008 CLUB

### OFFICERS

#### President

Earl Powell,  
KC4AXY

#### Vice President

Joe Mimms,  
K4GBH

#### Secretary

Jewell Mimms,  
K14WJO

#### Treasurer

Tedd Davison,  
A14WN

#### Repeater Trustee

Buddy Willis,  
W4DEW

#### Activities Manager

Adam Shirley,  
WJ4X

## December Christmas Dinner

The Greenwood Amateur Radio Society will have it's Christmas Dinner, Monday December 15th at Ryan's Steakhouse in Greenwood at 6:30pm. This takes the place of our regular meeting night.

## GREENWOOD HAMFEST!

The Greenwood Amateur Radio Society Hamfest is coming soon! Make sure you make plans to attend and make this the best Hamfest ever! GARS will hold this years Hamfest in it's usual location, at the Greenwood Civic Center, 1610 Highway 72/221 East, January 10th 2009. This year's Hamfest will have plenty of fun for the whole family, with ARRL Forums, VE Testing, cash prizes, great food, a wonderful showfloor with all your favorite vendors and a boneyard for that hard to find part you've been looking for. Come out and support the Greenwood Amateur Radio Society and get that wonderful radio or antenna Santa is sure to forget! More information is available on page 6.

## Club Dues

Just a reminder that 2009 W4GWD club dues are due January 1st. Tedd, A14WN reminds us that dues may be mailed in, or handed to him at any club event he may be at. The club address is W4GWD, PO Box 2404 Greenwood, SC 29646.

# Upcoming Society Events

## Chat N' Chew

Every Friday at 11:30am to 1pm at George's Family Steak House, 713 Bypass 25NE, Greenwood, 223-2707. Everyone is welcome to have lunch or sip your favorite beverage and chat for a while.  
(Dutch treat).

## December 2, 2008 VE Exam Session 7:00pm Greenwood

**Red Cross**  
GARS ARRL Volunteer Examiners (VE) Team will have an exam session 7:00pm Tuesday at The American Red Cross Building, 520 Epting Avenue, Greenwood, SC 29646.

## Weekly Net

Every Thursday night at 9pm on 147.165+, The Greenwood Amateur Radio Society holds the weekly 2 meter net. Help spread the word to check into the Net. If you would like to fill in or be a backup net control please let Buddy Willis, W4DEW know.

## How to cook a Christmas Ham:

### INGREDIENTS:

- I HAM , FULLY SEASONED, (GENERAL OR HIGHER)
- I PARABOLIC REFLECTOR (100FT DIAMETER)
- I MEGAWATT TRANSMITTER
- I FCC (EXPERIMENTAL PERMIT)
- I POUND BROWN SUGAR

### PROCEDURE:

PLACE HAM INTO MAIN LOBE OF DISH COVER WITH BROWN SUGAR...MOVE BACK TUNE TRANSMITTER TO 100GHZ CW, APPLY FULL POWER UNTIL EYES OF HAM START GLOWING GREEN.....OR ANY OTHER COLOR FOR THAT MATTER..... CONTINUE ROASTING UNTIL HE YELLS

# Weekly Ladies Net

The GARS Weekly 2 Meter Female Amateur Radio Net began on Tuesday, January 8, 2008 at 8 PM on the GARS 2 Meter Repeater. This net will be held every Tuesday night at the same time.

All interested female amateurs are invited and encouraged to check in. Subjects of discussion will be anything of interest to women.

If you have any questions, please contact Jean (W4KKA) at 864-953-0004 or Jo (KC4UU) at 864-446-7187.

# Congratulations

### Happy Birthday!

Jean Farmer	W4KKA	Dec 24
Don Finlayson	KG4WQC	Dec 31
Jim Gresham	KI4ZFU	Dec 31
Eldora Keck	KB4YON	Dec 31
Debbie Moore		Jan 6
Buddy Willis	W4DEW	Jan 7
Kin Maffett	KJ4BAK	Jan 13
Gail Davidson		Jan 21
Mamie Wise		Jan 25

### Happy Anniversary!

Harvey (WB4KXE) and	
Jimmie Dean (KI4VFQ) Hill	Dec 1
Darrell (KI4BST) and	
Dena Manning	Dec 3
Bert (KJ4VJ) and	
Eldora (KB4YON) Keck	Dec 22
Warren (W4PY) and	
Mamie Wise	Dec 7

## Classifieds



Turner 454X black, desk microphone -- \$20.00

Turner style desk microphone; textured mocha brown in color; a beautiful microphone in pristine condition - \$ 20.00

Astro 102BX solid state 10-160 non Warc bands) radio in excellent physical and working condition; has dual PTO's. It looks much like a Swan 700 and is made to commercial/military standards /w service manual. Sure 444 microphone wired for the Astro and a Radio Shack power supply, 25 amp switching. -- \$350 for all or just radio \$225

Vectronics antenna tuner 30& 300 watt ranges; works as it should with lighted cross needle meters for power/ SSR -- \$ 60.00

**Fred Maxwell W4FCM Travelers Rest, SC 864-430-4778**

If anyone has any Ham radio stuff to sell or trade... list it in this column by calling Buddy, W4DEW, 864-445-7574, [w4dew@arrl.net](mailto:w4dew@arrl.net)

## Club Happenings

Congratulations to Darrell, KI4BST and Jeremy, KI4CCZ on their upgrades!

David, KJ4BWG is busy putting up antennas for HF

Joe, K4GBH has been engineering a new style screwdriver antenna

Phil, WW4I keeps our O and Ø separate

Adam, WJ4X finds out that ALØHA is indeed Hawaii, not Alaska.

Everyone is hopefully getting ready for the Hamfest in January. It's going to be our best Hamfest ever!

The Club dinner is up next! The Newsletter Staff hopes to see everyone there. Make sure you've written down all your favorite radios for Santa to bring.

The newsletter staff wants to wish everyone a Happy Holiday season. Merry Christmas and Happy New Year!

Let us know what you're up to by sending an email to Adam, [WJ4X@AMSAT.ORG](mailto:WJ4X@AMSAT.ORG)

## DX Happenings:

Thru	Call	DX
31/Dec/08	SB1658OZ SC1658OZ	special callsigns (Sweden)
31/Dec/08	9A08P	special event station
31/Dec/08	9A60A	special callsign
31/Dec/08	9M1Cxx	special callsigns
31/Dec/08	AY0DX	special callsgin (Argentina)
31/Dec/08	C4EURO	special callsign (Cyprus)
31/Dec/08	DR8M	special event station
31/Dec/08	HG1848I	special call (Hungary)
31/Dec/08	HG550REX	special call (Hungary)
31/Dec/08	IN3IPY	special callsign
31/Dec/08	ON1000NOTGER	special call
31/Dec/08	ON50WAASLAND	special call

Be on the lookout  
for these  
Christmas Calls

NØEL  
G1FT  
KR1S  
KR1NGL  
RE1NDR  
N1CK

## Contests and Special Events:

Coming up in January, we have quite a few contests going on in Radiosport. Of course, I'd like to remind everyone of ARRL's Straight Key Night, January 1st. The rules are available at <http://www.arrl.org/contests/rules/2009/skn.html>

Then of course, January 3-4 is the RTTY Roundup, much fun for those who run Teletype. Also that weekend on the 3rd is ARRL's Kids Day. I'd like each of you to get on the air and talk to some of the younger hams, and maybe inspire some of the aspiring hams to become interested in a great hobby.

January 17-19 is the VHF roundup and I hope to participate as a rover in this contest.

We have a couple of interesting special events coming up for Pearl Harbor Day, and I hope each of you will try to contact them all. They are available at <http://www.arrl.org/contests/spev.html>

These are the ones I want to grab:

**Dec 7, 1800Z-2300Z**, Interlachen, FL. USS Essex CVS-9 Aircraft Carrier, WA2SEI. Remembering Pearl Harbor. 14.250 50.135.

**Dec 7, 1700Z-2359Z**, San Diego, CA. USS Midway CV-41 Museum Radio Room, NI6IW. Pearl Harbor Remembrance Day. SSB 14.325 7.250 CW 14.060 7.040 BPSK 7.070-7.080 MT63 14.109 7.037 RTTY 14.080 7.080

-WJ4X

# Desecheo Island DX



## Dates Set for DXpedition to Desecheo Island

(Nov 24, 2008) --

The US Fish and Wildlife Service (USFWS) has notified a group of hams led by veteran DXpeditioners Bob Allphin, K4UEE, and Glenn Johnson, W0GJ, that they will be able to mount a DXpedition to Desecheo Island (KP5, IOTA NA-095), February 12-26, 2009. Desecheo currently sits

at number 7 on *DX Magazine's* Most Wanted list. Desecheo is a small uninhabited island in the Mona Passage, 14 miles off the western coast of Puerto Rico. It is part of the USFWS's national wildlife refuge system administered by the Caribbean National Wildlife Refuge Complex (CNWR).

Johnson said the team will be running CW, SSB and RTTY on 160-6 meters. "We've had tremendous support from DX organizations all over the

world and from numerous equipment and antenna manufacturers," he told the ARRL. "We are diligently working on the propagation studies to reach our hard to work areas of Asia and Europe. This and with our planned antennas, we should knock Desecheo off of the Most Wanted List for a long time to come." Desecheo is the second most-wanted DXCC entity in Asia and third most-wanted in Europe.

## The Old DXer

The sunspots were roaring and the Old DXer was working DX night and day.

The faithful XYL had had it with his QRZing and blew her stack.

"DX DX DX - thats all you ever think about!" she groaned

"Why I'll bet you don't even remember our wedding date!!

"I mostly certainly do" was the immediate reply.

"It was June 14th, 1958 - That's the night I worked the XT1, the CRØ, and the AC6!! -- By AC6V

## Why 50 Ohm?

Standard coaxial line impedance for r.f. power transmission in the U.S. is almost exclusively 50 ohms. Why this value was chosen is given in a paper presented by Bird Electronic Corp.

Different impedance values are optimum for different parameters. Maximum power-carrying capability occurs at a diameter ratio of 1.65 corresponding to 30-ohms impedance. Optimum diameter ratio for voltage breakdown is 2.7 corresponding to 60-ohms impedance (incidentally, the standard impedance in many European countries).

Power carrying capacity on breakdown ignores current density which is high at low impedances such as 30 ohms. Attenuation due to conductor losses alone is almost 50% higher at that impedance than at the minimum attenuation impedance of 77 ohms (diameter ratio 3.6). This ratio, however, is limited to only one half maximum power of a 30-ohm line.

In the early days, microwave power was hard to come by and lines could not be taxed to capacity. Therefore low attenuation was the overriding factor leading to the selection of 77 (or 75) ohms as a standard. This resulted in hardware of certain fixed dimensions. When low-loss dielectric materials made the flexible line practical, the line dimensions remained unchanged to

permit mating with existing equipment.

The dielectric constant of polyethylene is 2.3. Impedance of a 77-ohm air line is reduced to 51 ohms when filled with polyethylene. Fifty-one ohms is still in use today though the standard for precision is 50 ohms.

The attenuation is minimum at 77 ohms; the breakdown voltage is maximum at 60 ohms and the power-carrying capacity is maximum at 30 ohms.

Another thing which might have lead to 50 ohm coax is that if you take a reasonable sized center conductor and put a insulator around that and then put a shield around that and choose all the dimensions so that they are convenient and mechanically look good, then the impedance will come out at about 50 ohms. In order to raise the impedance, the center conductor's diameter needs to be tiny with respect to the overall cable's size. And in order to lower the impedance, the thickness of the insulation between the inner conductor and the shield must be made very thin. Since almost any coax that \*looks\* good for mechanical reasons just happens to come out at close to 50 ohms anyway, there was a natural tendency for standardization at exactly 50 ohms.

# COMING HAMFESTS and EVENTS

3 Jan 2009  
18th Annual Morristown  
Hamfest  
Lakeway Amateur Radio  
Club  
<http://www.lakewayarc.org>  
Talk-In: 147.030+  
Contact: June McClary,  
AI4SO  
2105 Tobes Creek Road  
Cosby, TN 37722  
Phone: 423-487-0332  
Email: ai4so@hughes.net  
White Pine, TN  
Smoky Mountains Expo  
Center  
1615 Pavilion Drive

10 Jan 2009  
**Greenwood Hamfest**  
**Greenwood Amateur Ra-**  
**dio Society**  
<http://www.w4gwd.org>  
**Talk-In: 147.165+ (no**  
**tone)**  
**Contact: Darrell Manning,**  
**KI4BST**  
**PO Box 2404**  
**Greenwood, SC 29646**  
**Phone: 864-418-8969**  
**Email:**  
**dbmanning@wctel.net**  
**Greenwood, SC**  
**Greenwood Civic Center**  
**1610 Highway 72/221 East**

10 Jan 2009  
Winston-Salem FirstFest  
Forsyth Amateur Radio  
Club  
<http://www.w4nc.com>  
Talk-In: 146.64 (PL 100)  
Contact: Henry Heidtmann,  
W2DZO  
c/o Forsyth ARC  
PO Box 11361  
Winston-Salem, NC 27116-  
1361  
Phone: 336-245-5740  
Email:  
firstfest09@w4nc.org  
Winston-Salem, NC  
Summit School Parking Lot  
2100 Reynolda Road

10 Jan 2009  
TechFest  
Gwinnett Amateur Radio  
Society  
(GARS)  
<http://www.gars.org>  
Talk-In: 147.075+ (PL 82.5)  
Contact: Norman Schklar,  
WA4ZXV  
480 North Peachtree Street  
Norcross, GA 30071  
Phone: 770-840-9664  
Fax: 770-755-5411  
Email:  
norman@schklar.com  
Lawrenceville, GA  
St. Marguerite D'Youville  
Church  
85 Gloster Road NW

7 Feb 2009  
South Carolina State Con-  
vention  
(Charleston Hamfest &  
Computer  
Show)  
Charleston Amateur Radio  
Society  
<http://www.wa4usn.org>  
Talk-In: 145.250 (PL 103.5)  
- linked  
repeater system  
Contact: Jenny M. Myers,  
WA4USN  
2630 Dellwood Avenue  
North Charleston, SC 29405  
Phone: 843-747-2324  
Email:  
brycemyers@aol.com  
Ladson, SC  
Exchange Park Fairgrounds  
9850 Highway 78

28 Feb 2009  
Dalton Hamfest #27  
Dalton ARC  
<http://www.w4drc.com>  
Talk-In: 145.230(-) no tone  
Contact: Harold Jones,  
N4BD  
PO Box 211  
Rocky Face, GA 30740  
Phone: 706-673-2291  
Email:  
n4bd@windstream.net  
Dalton, GA  
North Georgia Fairgrounds  
501 Legion Drive

14-15 Mar 2009  
Roanoke Division Conven-  
tion  
Mecklenburg Amateur Ra-  
dio Society  
<http://www.w4bfb.org/>  
hamfest.html  
Talk-In: 145.290(-) &  
146.940(-)  
Contact: Mary & Tom Hunt,  
N4MH & KA3VVJ  
16007 Wynfield Creek  
Parkway  
Huntersville, NC 28078  
Phone: 704-948-7373  
Email:  
hamfestinfo@w4bfb.org  
Concord, NC  
Cabarrus Arena & Event  
Center  
4751 Highway 49 North

21 Mar 2009  
Kennehoochee Amateur  
Radio Club  
<http://www.w4bti.org>  
Talk-In: 146.880 - offset  
(PL100)  
Contact: Don V. Heppe,  
W5LGK  
1425 Ridgeway Drive  
Acworth, GA 30102  
Phone: 404-630-1249  
Email:  
W5LGK@bellsouth.net  
Marietta, GA  
Jim Miller Park  
2245 Callaway Road

**IF YOU WOULD LIKE YOUR HAMFEST OR  
EVENT LISTED HERE, PLEASE CONTACT  
ADAM, WJ4X@AMSAT.ORG**