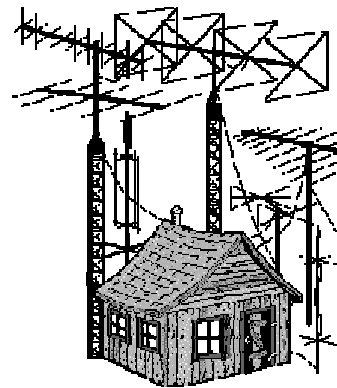


IREDELL WIRELESS

W4SNC



Published monthly as a service to the Iredell County Amateur Radio Community
By the Iredell County Amateur Radio Society (ICARS)
P.O. Box 142 Statesville NC 28687

ICARS Website
www.icarsonline.org

President: Margie Persons, KE4YWO~~Vice President: Mike Bryan, WA6KWW
Secretary: Jim Hoke, W4ONS~~Treasurer: Matthew Carbone, KC2JSR
Members-at-Large: Walt Schwarzl, AG4AU~~David Damron, KI4CBZ

Wireless Editor, Tim Misenheimer KC4MJC
Special thanks to Mike Gaither, KC4KSX for printing the Iredell Wireless.

March 2006

This month's Meeting will be held
at Julia's Tally House
Thursday March 9 2006
Come early for rag chew or to eat

Net operators needed!

**We are looking for volunteers to be Net Control for the 2 Meter FM, 146.685
Wednesday night net, and the Saturday night SSB net on 28.468**

March Net Control Stations

2 Meter FM Net Patrick W4GPW 10 Meter SSB Net Tim N4AVQ

April Net Control Stations

2 Meter FM Net Russell KF4AEX 10 Meter SSB Net Walt AG4AU

February 9, 2006
Iredell County Amateur Radio Society Meeting Minutes

The Iredell County Amateur Radio Society met at Julia's Tally House for the regular monthly meeting. In the absence of President Margie Persons, KE4YWO, Vice President Mike Bryan, WA6KWW called the meeting to order at 7:00 PM. Eleven (11) members and three (3) visitors were present.

Minutes -- A motion that the minutes as published be approved was made and seconded. Motion carried.

Treasurer's report – Treasurer Matthew Carbone, KC2JSR, presented a report dated 02-09-06.

Beginning balance \$596.60

Three checks written Total \$127.00

Deposits of dues \$195.00

Ending balance \$664.60

A motion that the report be approved was made and seconded. Motion carried. Matthew submitted a written report.

Mike announced that Jack Phifer, W4RTW is a SK as of February 8. Mike suggested that the club give his wife Joyce some type of living memorial. After some discussion, it was agreed that Matthew will contact a florist and have them put together a dish garden or something suitable in the cost range of \$50 to \$75.

Old Business –

Amateur Classes -- Patrick, W4GPW reported that sixteen (16) had signed up for the amateur classes he and his dad are conducting. There are now 6 or 7 participating in the class and he feels we can expect four or five new hams. Tim, N4AVQ stated he would like to have another class sometime during the summer when there would be fewer conflicts with school activities.

ICARS' Thirtieth Anniversary special events station and outing – Discussion ensued and the general consensus is to have some type of outing commemorating ICARS' anniversary. This matter will be discussed further in future meetings.

Field Day 2006 – Don, W4DON made reservations at McClure Park for June 24 and 25.

Technical Committee – Tim, N4AVQ gave a report for Don. A circuit board in the repeater will have to be removed to enable a proper repair. Work is in progress.

ARES meetings – Meetings are to be held on the fourth Monday of each month. Monday, February 27, Red Cross Building at 7:00PM is the next meeting.

Audit Committee – Buddy, KG4DKN, Ralph, N4ACF, and Matthew, KC2JSR reported that an audit of the 2005 books has been completed. A motion to accept the audit was made and seconded. Motion carried.

The committee presented a budget for 2006. A motion to approve was made and seconded. Motion carried.

Larry Earle, WD4LXC announced that he has several items including a tower and generator for sale. Contact Larry for details.

The March meeting will be held March 9 at Julia's Tally House at 7:00 PM.

The meeting was adjourned at 7:55PM.

Jim Hoke, CPBE, W4ONS

The following people have paid dues for 2006

**AC4AS Jim Hamilton
AG4AU Walt Schwarzl
KC4MJC Tim Misenheimer
KC2JSR Matthew Carbone
KG4DKN Buddy Eaton
N1GC Gary Colborne
N4ACF Ralph Sparrow
N4AVQ Tim Whitson
N4SUE Sue Colborne
N8RDP Harlan Cooley
NG4X Dale Bass
W4GPW Patrick Whitson
W4ONS Jim Hoke
W4RTW Jack Phifer
W4SDT Sherrill Parks
W4UFO Nobby Mills
WA6KWW Mike Bryan
WA8JZN Clarence Webb
WB4WRY John Lamson
WD4LXC Larry Earle**

Notes From The Editor

If you know someone who you think would like receive the Iredell Wireless Online, send me their e-mail address and I will add it to my mailing list.

If your name is not listed above, it's time to put it there. Support your club.

Our condolences go to the family of Jack Phifer, W4RTW, who passed away February 8 2006 after a lengthy illness. Jack was an active Fist club member and CW operator. He monitored the packet cluster and was a DX'er. Jack was often heard on the 2 meter repeater. He will be missed by all.

Notes from The Editor Cont.

Technical committee Chairman, Don Summers W4DON has done a great job working on the ICARS repeaters. The Mark IV repeater is operational , at this time and is working well. Don say's that a little more work is needed to get everyone's deviation (voice levels), to sound the same. Some are too high and some are too low.

The Technical committee hopes to have a courtesy tone installed on the VHF Engineering repeater (back-up repeater) sometime in the future.

Friends, I bought a home protection device recently. No, it's not a gun. It's not an alarm system for the house (Though we have one), it's a paper shredder. The particular one I bought is a crosscut shredder. I realize that many of you already have one. That's great. For those of you that don't, I recommend that you get one, and use it. It's very unfortunate that we live in a time when we have to look over our shoulder every time we are out. We also have to be careful of our trash! If the wrong person gets your name and address, phone number, credit card numbers, bank statement numbers Social Security numbers, your identity can be stolen and you might lose every thing you own. Everything that has personal information needs to be destroyed before you throw it away. You never know what happens to your trash after it is picked up. You can get a paper shredder at any Wal-mart, Kmart, Staples and many other places, and they're not expensive, under \$50 for a good one.

Ending date for articles to be posted in the April I redell Wireless is April 1. (*NO JOKE*)

An Antenna Length Chart

By George I. Wagner,* K5KG

In the past few years I have had several opportunities to operate from a number of DX locations. In doing so, I have learned the importance of taking along the proper collection of tools, connectors, gadgets, and reference information to be able to make a quick repair or string up a needed antenna in an unfamiliar shack. Conversely, I have also learned the agony of lugging too much along, only to find it completely unnecessary and unused at the end of the trip.

The antenna length chart, which is the subject of this article, arose out of the need to have a convenient and ready reference, other than a weighty handbook, for measuring antenna lengths. This results from a number of experiences in trying to find a calculator, or a paper and pencil (typically in the dark and late at night), inevitable debates over what constants to use in the calculations, and finally the need to convert from feet to meters when only a meter tape was available, or vice versa. On two separate occasions I have discovered 160 meter dipoles of totally wrong lengths, and on an expedition to OJ0 in 1982, OH0RF and I spent many hours calculating, cutting, and erecting 40 and 15 meter delta loops. This chart would have been a valuable asset in those circumstances.

This chart was developed after a brief reference to the various antenna handbooks in the shack, and a quick

refresher on the current amateur frequencies, especially in the new 12, 15, and 30 meter WARC bands. The formulas used in the calculations, shown at the bottom of the chart, are based upon standard assumptions for wire antennas supported by end insulators.

The chart was developed using VisiCalc (a registered trademark of VisiCorp), an electronic "spreadsheet" program on an Apple II+ computer. However, any spreadsheet program on a personal computer could have been used to do the job.

ANTENNA LENGTH CHART BY K5KG

Frequency (MHz)	Wavelength - Feet				Wavelength - Meters			
	1/4	1/2	1/2 + 5%	Full	1/4	1/2	1/2 + 5%	Full
1.8	129.87	259.75	272.73	519.49	39.58	79.17	83.12	158.33
1.825	128.09	256.19	269.00	512.38	39.04	78.08	81.99	156.16
1.85	126.36	252.73	265.36	505.45	38.51	77.03	80.88	154.05
1.9	123.04	246.08	258.38	492.15	37.50	75.00	78.75	150.00
3.5	66.79	133.58	140.26	267.17	20.36	40.71	42.75	81.43
3.6	64.94	129.87	136.37	259.75	19.79	39.58	41.56	79.17
3.7	63.18	126.36	132.68	252.73	19.26	38.51	40.44	77.03
3.8	61.52	123.04	129.19	246.08	18.75	37.50	39.38	75.00
3.9	59.94	119.88	125.88	239.77	18.27	36.54	38.37	73.08
4	58.44	116.89	122.73	233.77	17.81	35.63	37.41	71.25
7	33.40	66.79	70.13	133.58	10.18	20.36	21.37	40.71
7.05	33.16	66.32	69.63	132.64	10.11	20.21	21.22	40.43
7.1	32.93	65.85	69.14	131.70	10.04	20.07	21.07	40.14
7.2	32.47	64.94	68.18	129.87	9.90	19.79	20.78	39.58
7.3	32.02	64.05	67.25	128.09	9.76	19.52	20.50	39.04
10	23.38	46.75	49.09	93.51	7.13	14.25	14.96	28.50
10.5	22.26	44.53	46.75	89.06	6.79	13.57	14.25	27.14
14	16.70	33.40	35.07	66.79	5.09	10.18	10.69	20.36
14.1	16.58	33.16	34.82	66.32	5.05	10.11	10.61	20.21
14.2	16.46	32.93	34.57	65.85	5.02	10.04	10.54	20.07
14.35	16.29	32.58	34.21	65.16	4.97	9.93	10.43	19.86
18	12.99	25.97	27.27	51.95	3.96	7.92	8.31	15.83
18.5	12.64	25.27	26.54	50.55	3.85	7.70	8.09	15.41
21	11.13	22.26	23.38	44.53	3.39	6.79	7.12	13.57
21.1	11.08	22.16	23.27	44.32	3.38	6.75	7.09	13.51
21.25	11.00	22.00	23.10	44.00	3.35	6.71	7.04	13.41
21.45	10.90	21.80	22.89	43.59	3.32	6.64	6.98	13.29
24.89	9.39	18.78	19.72	37.57	2.86	5.73	6.01	11.45
24.93	9.38	18.75	19.69	37.51	2.86	5.72	6.00	11.43
24.99	9.35	18.71	19.64	37.42	2.85	5.70	5.99	11.40
28	8.35	16.70	17.53	33.40	2.54	5.09	5.34	10.18
28.5	8.20	16.41	17.23	32.81	2.50	5.00	5.25	10.00
29	8.06	16.12	16.93	32.24	2.46	4.91	5.16	9.83

*P.O. Box 4312, Houston, TX 77001

Formulas Used: 1 Meter = 3.281 Feet

Length of 1/2 Wavelength Antenna (Meters) =
 $(300 \times .95 \times .5) / \text{Freq. (MHz)} = 142.50 / \text{Freq. (MHz)}$

Length of 1/2 Wavelength Antenna (Feet) =
 $(300 \times .95 \times .5 \times 3.281 \text{ m/ft}) / \text{Freq. (MHz)} = 467.54 / \text{Freq. (MHz)}$

Note: 1/2 Wavelength + 5% is Used for Inverted Vee Antennas

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Dates	Event and Contact	Location
11-12 Mar 2006	Charlotte Hamfest and ComputerFair Mecklenburg Amateur Radio Society http://www.w4bfb.org Talk-In: 145.29 Contact: Mary Hunt, N4MH 16007 Wynfield Creek Parkway Huntersville, NC 28078 Phone: 704-948-7373 Fax: 704-948-7373 Email: n4mh@w4bfb.org	Charlotte, NC Charlotte Merchandise Mart 2500 East Independence Blvd. Div: Roanoke Sect: North Carolina
2 Apr 2006	Down East Hamfest Down East Hamfest Association http://www.downeasthamfest.org Talk-In: 146.685/146.085 (PL 88.5) Contact: Jean DuPree, KB4OHX 212 East Capitola Avenue Kinston, NC 28501 Email: jeanhd@icomnet.com	Kinston, NC Lenoir County Fairgrounds Fairgrounds Road Div: Roanoke Sect: North Carolina
15 Apr 2006	Catawba Valley Hamfest McDowell Amateur Radio Association http://www.cvhamfest.com Talk-In: 147.150 Contact: Michael Fox, KF4MWX 4895 Karen Court Morganton, NC 28655 Phone: 828-437-2787 Fax: 828-652-3102 Email: kf4mwx@bellsouth.net	Morganton, NC Burke County Fairgrounds 145 Bost Road Div: Roanoke Sect: North Carolina
23 Apr 2006	North Carolina State Convention Raleigh Amateur Radio Society http://www.rars.org/hamfest Talk-In: 146.64 MHz Contact: Jeff Wittich, AC4ZO 211 Dundalk Way Cary, NC 27511 Email: ac4zo@arrl.net	Raleigh, NC NC State Fairgrounds, Jim Graham Building 1025 Blue Ridge Road Div: Roanoke Sect: North Carolina
13 May 2006	Rockingham County Amateur Radio Club http://www.rcarc.com/hamfest2006.html Talk-In: 146.850 or 147.345 (PL103.5) Contact: Dal Williams, W4YQY 307 Oleander Drive, Suite D Eden, NC 27288 Email: w4yqy@rcarc.com	Reidsville, NC Liberty Baptist Church 141 Broadleaf Road Div: Roanoke Sect: North Carolina