



President's Corner	1
Club Officers / Dues	2
Club Repeaters	2
Meeting Minutes	3
Hamfests / For Sale	4
NC QSO Party	5
MS Walk	6
Antenna Projects	7
Radio Resources	8



The President's Corner: Van N4ERM

WE'RE NUMBER ONE!!

Once again CFARS has won the North Carolina State QSO Party! Four in a row!! Congratulations to our Team Leader, Irv K3IRV, and all who participated either on site or from home. We couldn't have done it without your support. We were especially honored to have Marty Young W4MY, Chairman of the NCQP Contest Committee, present the winning trophy at April's monthly meeting. Congratulations all!

Annual County Shelter Commo Exercise

On Thursday, 5 May 2016 (Cinco de Mayo) we'll do our annual emergency shelter verification and communications exercise. Cumberland County has seven shelters. During the exercise, we deploy to each of the shelters and to the EOC, verify the presence of the emergency antenna and coax, and conduct a communications exercise to insure each shelter can talk to our CFARS Repeaters, among each other via simplex, and directly to the EOC. This is great opportunity to visit your local shelter and identify the location of the antennas and coax for emergency use. We'll be coordinating on 146.31/91, 147.93/33 and on the CFARS internal simplex 147.59 MHz

Ten Ten International Spring CW Contest, 6-8 May 2016

Here's another case where CFARS shines! Over the past 30 years or so, our local Possum Trot Chapter of 10-10 has WON ALMOST EVERY CW CONTEST. We've done this by being active on ten meters CW. Even if we only communicate amongst ourselves, we can pile up a bunch of points. Now here's the deal: You really don't have to know a bunch of CW to participate. All you really need to do is be able to copy someone's call sign after they have sent it several times. Set up your keyer or your transceiver (several modern transceivers have CW memories) to send your report (name, State and 10-10 number). You can look up the other station's data (name, 10-10 number and state) on the Ten-Ten site and QRZ.com. Then submit your log and help us win 10-10 CW again!

May 2016 Meeting

Our May meeting will be one of a series of warm-ups for our participation in Field Day. We've always done "respectably" in the past (#2 or #3 in North Carolina). This time we're aiming for first place. Our own George KM4ODS has volunteered for the presentation at the May meeting and to lead the Sideband station this year. He'll need lots of help to keep the station running for the full 24 hours, so VOLUNTEER! His presentation at May's meeting will be on "Best Contesting Practices." You don't want to miss it!

Museum of the Cape Fear

We've been asked to demonstrate Amateur Radio for children ages 9-12 at the Museum of the Cape Fear on Thursday, 23 June 2016 from 9AM to noon. More on this activity in next month's News.

UPCOMING STUFF

- | | |
|---|--------------------------------|
| 5 May – Annual Emergency Shelter Exercise | 16 May – Monthly CFARS Meeting |
| 6-8 May – Ten-Ten Spring CW Contest | |

CFARS Officers

President Van, N4ERM n4erm@arrl.net
 Vice Pres.....Van, KJ6HYJ
 Sec./Treas..... Chuck, KJ4RV kj4rv@arrl.net
 Recorder.....Bill, KJ4OFD kj4ofd@arrl.net
 Newsletter Editor...Mike KN4XP kn4xp@yahoo.com



Coordinators

Membership.....David, KR4OE kr4oe@nc.rr.com
 Net Manager.....Chuck, KJ4RV kj4rv@arrl.net
 EmergencyVACANT
 Information.....Kelly, N4EWG n4ewg@nc.rr.com
 Repeaters.....Bill, KU4W kc4swy@embarqmail.com
 Sky Warn.....Jim, KI4YRH ki4yrh@aol.com
 Field Day.....Bon, WA4WHV wa4whv@aol.com
 Health & Welfare...Mya, mya@embarqmail.com
 VEC..Pat, N4UGH n4ughpat@aol.com
 SwapfestDavid, KR4OE kr4oe@nc.rr.com
 ARRL Bulletins....Irv, K3IRV irv47mc@gmail.com
 Webmaster.....Reggie KK4NJC, info@neondawg.com

Club Repeaters

(PL 100 Hz)

K4MN
 2 m 146.910/146.310
 70 cm 444.400/449.400

K4MN
 6 m 53.810/52.810

WA4FLR
 2 m 147.330/147.930

Club Membership

Dues

CFARS club membership dues are due and payable in January each year. CFARS does offer you the option to pay your dues no later than March. Yearly dues are \$15.00. CFARS offers a lifetime membership option for \$150.00. If your dues are not paid by March you will not be a voting member of the club. The right to vote on issues for the club comes with club membership.



The **CFARS NEWS** is published monthly by the Cape Fear Amateur Radio Society, PO Box 36106, Fayetteville, NC 28303

Cfars_newsletter@yahoo.com

THE CFARS NEWS IS NOW PUBLISHED AS A PDF DOCUMENT OBTAINABLE ON THE CLUB'S WEB SITE AT WWW.CFARSN.C.ORG/NEWS.PHP

CFARS Club Patches are available for purchase. Contact **Chuck KJ4RV** for your patch today!



April 2016 Club Meeting Minutes

On April 16th the Cape Fear Amateur Radio Society meeting was called to order at 7:00 pm by **Van N4ERM**. The meeting was held in Room 222 of the Science Building at Methodist University. We opened early to enjoy a SKYWARN class given by the National Weather Service, and to give him time for his presentation. **Van N4ERM** led the club in the Pledge of Allegiance. **David KR4OE** led the invocation. The introductions were skipped in interest of saving time.



A motion was made by **Kelly N4EWG**, seconded by **Bill KM4SUB**, to approve the minutes of the March meeting. By vote the motion carried. **Marty W4MY** came to present CFARS a plaque and to congratulate us on winning the NC QSO Party for the fourth time running.

COMMITTEE REPORTS:

Treasurer: **Chuck KJ4RV** gave the treasurer's report. We spent some money, but we are still solvent.

Repeater: **Bill KU4W** said the 2M repeater was still up, the 440 MHz repeater was still down, and that Jerry, KA4ULH, was still working to get it together. **Bill KU4W** said the rest of the repeaters were ok. **Bob WA4WHV** is working on the shelf in the repeater room.

Net Manager: **Chuck KJ4RV** gave the Net Manager's report the numbers are up, as the temperature goes up. The repeaters are our, use them.

Membership: **David KR4OE** reminded all that if they have not paid their dues by March 31st they would be dropped from membership in the club. .

Field Day: **Bob WA4WHV** talked about field day. We need a crowd to sign up. We need folks to take a turn at the side-band station, calling and logging. **Travis KM4JJJ** will take the GOTA station. **Irv K3IRV** mentioned we need someone on Twitter for points on Field Day.

Health & Welfare: Steve KA4CZL is being hospitalized. Keep him in your prayers.

VE Testing: VE Testing was held last Saturday, and we have 5 new technicians and 1 new general. Congratulations for those who passed their tests.

Public Relations: **Irv K3IRV** has folks in line for field day visit from the city fathers. He talked about the MS Walk last Saturday. We had 10 members volunteer for the walk.

Old Business: **Bill KJ4OFD** mentioned the trailer was nearly complete. we will get together after breakfast April 30th to erect the tower and see what else needs to be done for Field Day. **Bob WA4WHV** bragged about the table banner for the club and how well it worked at a couple of hamfests.

New Business: **Irv K3IRV** said we will be having shelter checks at 1:00 pm, Thursday, May 5th, to check communications between all the stations.

New Members: **David KR4OE** introduced three (3) new hams to the club: **Tyler KM4SUE**, (not present), **Eric KJ4VUP** and **Bill KM4SUB**. **Tyler** and **Bill** introduced themselves. They were put to a vote to accept them as new members of CFARS and they were accepted as new members.

Program: **Ryan Ellis** of the *National Weather Service Raleigh office*, presented SKYWARN training and some of the changes that had been made. Ryan gave an excellent class and we finished at 9:00 pm.

(Continued on Page 4)

(Continued from Page 3)

Announcements: **Bill KU4W** reminded all that the 10-10 digital contest was this coming weekend. Get out your gear and do some PSK-31. The 10-10 spring CW contest is on 7-8 May. **David KR4OE** mentioned he was at the Kinston Hamfest last weekend, they had a good show, and invited some new vendors to our hamfest. Way to go David!

Door Prize: **David KR4OE** held the Door Prize Drawing. **Ben KM4ODT** won a drill and **John W4RDU** won a Homeland Security handbook.

A motion was made by **Marty KD4YQE**, seconded by **Irv K3IRV**, to adjourn the meeting. By vote the motion carried. The meeting was adjourned at 7:30 p.m. We had 26 members present.

Upcoming Hamfests

May 7, 2016

South Carolina State Convention
Spartanburg, South Carolina
brars.org

May 14, 2016

12th Annual Rockingham Swapfest
Reidsville, North Carolina
n4iv.org

May 28, 2016

Durhamfest
Durham, North Carolina
dfma.org

June 11, 2016

Winston Salem Classic Hamfest
Winston Salem, North Carolina
w4nc.com/ws_classic_hamfest_2016.htm

Items for Sale

- Hustler 5-BTV HF vertical
Contact Shawn K1RZZ for more information
- Cushcraft A4S triband antenna with 40 meter add-on
Ham IV Rotor with controller unit
60-foot Rohn 25 tower with tapered top Section

Everything has been housed and is in pristine condition.

Asking \$1,000.00 for the package deal.
Call Steve KA4CZL - - (910) 980-0062

PLEASE NOTE

Radio Amateurs Asked to Keep 7.060 MHz Clear for Ecuador Earthquake Emergency Traffic

7.060 MHz

LIKE & SHARE

MLS
www.HamRadio.uk

NC QSO Party 2016

Call	QTH	Score	QSO	CW	PH	Ctys	States	Multi	ARS
K4MN	CUM	207,246	737	340	397	63	51	114	Cape Fear ARC
K4EG	ALA	99,345	440	161	279	60	35	95	Alamance ARC
W4NC	FOR	94,659	389	235	154	49	44	93	Forsyth ARC
W4YK	HEN	76,442	374	38	336	56	41	97	Blue Ridge ARC
NC4MC	MOO	19,586	113	73	40	42	22	64	Moore County

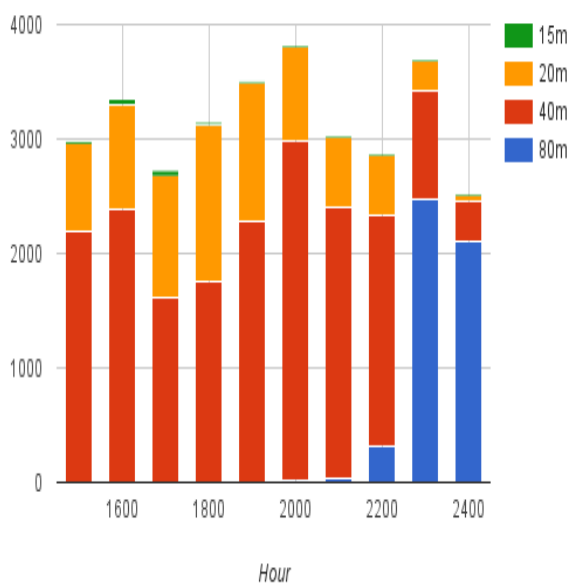
The North Carolina QSO Party was held February 28th - 29th this year. CFARS participated from a location at Smith Lake.

The winner for the Club In-State Low Power category this year is The Cape Fear Amateur Radio Society K4MN operating in Cumberland County. CFARS came out ahead of the pack to keep their title as the top LP club entry. K4MN ended up with a score of 207,246 points and worked a total of 63 counties. Coming in second place for the In-State LP Club category is the Alamance Amateur Radio Club K4EG in Alamance County. AARC had a total score of 99,345 points and worked 60 counties in NCQP this year. - (From the RARS website)



Cape Fear Amateur Radio Society is awarded 1st Place in the 2016 NC QSO Party for the fourth year in a row!!!!

QSOs By Hour





© 2016 Jim Hawthorn



© 2016 Jim Hawthorn

walk
MS



© 2016 Jim Hawthorn



© 2016 Jim Hawthorn

VERY Tough to Beat a Dipole on HF (without adding additional half waves or parasitic elements)!

EXAMPLE: For 20 Meter Dipole - - 468 divided by 14.175 = 33.02 feet or 16.5 feet (16' 6") per side.
The above dipole should work fine across the 20 meter band. But we can do better:

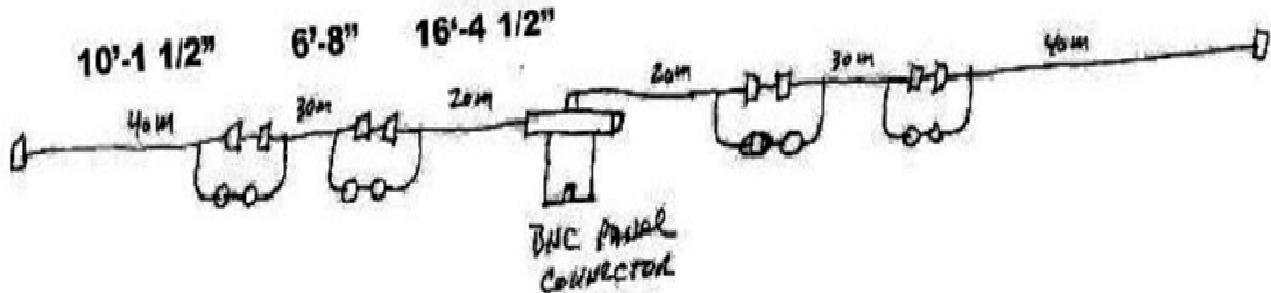
Famous One-Cut Dipole – Step 1. Use the formula with the old constant (468/freq Mhz = total length in feet) and add 6 inches or so (easier to shorten than lengthen an antenna). Our new antenna length is 34 feet or 17 feet per side. **Write the new length down!**

Step 2. Haul the antenna up to its final location and find the frequency (F) of the **lowest SWR**. Our lowest SWR frequency was 1.2 to 1 at 13.985MHz **Record the lowest swr frequency!**

Step 3. Multiply length from step 1 (L) times frequency of lowest SWR (F) in step 2 to get new constant. Step 1 Length x Step 2 Frequency = **new constant** In our example: 34 feet X 13.985 = 475.5.

Step 4. Now use the new "constant" obtained from step 3 above in the formula rather than the 468 to get new length in total feet. 475.5 divided by 14.175 = 33.5' (33' 6") total length or 16' 9" per side. Haul your dipole back up to its final position and start operating!

The Iditarod Multi-Band Dipole – Is actually several dipoles individually selectable by connections. Requires no tuner, but must be lowered to change bands. This is pretty easy if the antenna is erected as a sloper (lower the high end, make the connections and pull high end back up).



EARCHI End Fed Antenna - - Probably the best-known end-fed antenna kit series was built by the Emergency Amateur Radio Club or Hawaii or EARCHI. They designed and sold kits for single band end feds (no tuner required) and a multi band end fed (40 thru 6 meters) which required a tuner. Several of us have made these easy-to-build antennas.





Irv McWherter K3IRV Appointed Public Information Coordinator for the NC Section

Irv McWherter K3IRV of Lillington has been appointed Public Information Coordinator for the NC Section. He is an ARRL-trained Public Information Officer and serves in that capacity for his home club, the **Cape Fear Amateur Radio Society**. **Irv K3IRV** and his XYL, **Sandy N3LDY**, moved to North Carolina after **Irv K3IRV** completed a career as a Navy contractor in the Washington DC area. His interests in amateur radio are diverse; he enjoys chasing DX, QRPing in parks, learning CW, and casual contesting. **Irv K3IRV** has been a Ham since 1991 and a QSL Manager for over 15 years. In supporting the over 30 calls he manages, **Irv K3IRV** figures he has responded to over 20,000 requests. **Irv K3IRV** and **Sandy N3LDY** are sorters for the ARRL 3rd area incoming bureau. **Irv K3IRV** is also a member of the Carolina DX Association. **Irv K3IRV** succeeds **Paul Jones K4VCF** who resigned from the position due to other obligations. On behalf of the NC Section, thanks to **Paul K4VCF**, for his service as Public Information Coordinator; and, thanks to **Irv K3IRV** for accepting this position – we look forward to working with you!

accepting this position – we look forward to working with you!

Do you take advantage of all the opportunities available to you as an ARRL member? Go to http://www.arrl.org/files/file/Member_services.pdf and see what is available.

Here is a list of newsletters available from the ARRL:

- The ARRL email newsletter, The ARRL Letter
- ARRL Contest Update (biweekly contest newsletter)
- The ARES E-Letter (monthly public service and emergency communications news)
- The ARRL Club News (monthly club news)
- ARRL Instructor/Teacher E-Letter (Radio Waves)
- The IARU E-Letter (International Amateur Radio Union news)
- News and information from your Division Director and Section Manager
- Publication Announcements and Special offers
- ARRL Legislative Update
- ARRL Board meeting agendas and minutes
- W1AW Bulletins
- General/Special
- DX
- Propagation
- Satellite
- Keplerian

Do you ever check out the North Carolina Section website? NCARRL.org

Are you aware of the technical staff and information available to you as an ARRL member?

The ARRL Technical Information Service is the member's resource for technical problems -- understanding the fine points or getting tips for your projects. Your membership dollars support a vast collection of technical material, including some of the best QST and QEX articles for free download. We have ARRL field volunteers who can provide local assistance. If the other resources still leave you perplexed, you can contact the lab staff for assistance with ham radio questions by mail, email or phone. Be sure to include your call sign or membership number with your inquiry.