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# ◆ Cape Fear Amateur Radio Society ◆

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Volume XXX Issue 4

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## April 2000 Minutes

The April 2,000 CFARS meeting was called to order by David KR4OE at 7:30pm. The Pledge of Allegiance was led by David. Bill KD4DER gave the invocation. Introductions were made and guests were made welcome. Congratulations were given to members that had upgraded. George KE4HW made a motion, seconded by KN4SS to accept the minutes of the March 2,000 meeting. The motion passed.

**Committee Reports: Treasurer** – Chuck KJ4RV reported a balance of \$1,582.40. **Health & Welfare** – Fred N4ZCG gave a report on Daryll KD4QNG. **Public Relations** – Fred N4ZCG Fax's sent out. **Net Manager** - Chuck KJ4RV CFARS nets doing well but could use some more NCS's, **See CHUCK and help call it's great FUN.** **Property Auditor** – Bob KC4RSZ no change. **Emergency Coordinator** – Bob KL7NL reported he has most of the sites to be manned during emergency's staffed but could use a few more operators, a visit to all the sites to be coordinated at a later date. **V. E Testing Coordinator** – Bob KL7NL announced the next test session would take place **13 May 2,000 register 09:00am Test starts 09:30** at the Science building at Methodist College. Bring two forms of I.D, copies of License and any CSCE's. Test Fees will be \$6.65. **Skywarn** – Buddy KG4ABZ reported skywarn was in effect. **News Letter Editor** – Mike KN4XPreported on news letter, future cut off date for items to be placed in newsletter will be the Friday following the regular CFARS meeting. It's your newsletter so send those items to Mike. **ARRL Bulletins** – A.J W4EK reported on ARRL news. **Unfinished Business (Old)** – David KR4OE reported due to other commitments the induction of Dr. Elton Hendricks Methodist College President will take place at the CFARS May 2,000 meeting. **ARRL AWARDS** are being checked on. **Future Swap Fest** date shoot for 2<sup>nd</sup>. Saturday in August 2,000. **March of Dimes** Bob KC4RSZ reported he still needs operators (15) w/hand held radios and a couple of Mag Mounts; only a few have committed so far, contact Bob and let him know you can help out May 13, 2,000, be there 08:00 March starts @ 09:00. GREAT FUN so come on out.

**New Business** – David KR4OE said he had flyers on coming Hamfests. Announcements from the Floor – Dave KT8L spoke on the forth coming Movie Frequence and a contest clubs could paticipate in.

**Program** – David KR4OE and Chuck KJ4RV spoke about the forth coming Field Day in June 2,000.

**Door Prize Drawing** – Kelly N4EWG Conducted drawing won by Leighton KN4ZZ A set of Mag Flash Lights with batteries.

**Motion to Adjourn** - Bob KL7NL made a motion, seconded by Billy KF4IKS, to adjourn the meeting. The motion carried. The meeting was adjourned at 08:45pm. There were 34 members and four guests present.

Minutes submitted by Kelly N4EWG.



## President's Message - David KR4OE

As I begin writing this the weather outside is picture perfect. The temperature outside is just right and there is a slight breeze. I just finished my quarterly chore of cleaning out the gutters. Oh such fun it is. Anyway, while up on the roof and the ladder I remembered I better get busy on the article for this months newsletter. So here I am and thus a good excuse for taking a break from all the weekend chores.

However on the subject of weather now is a good time to talk about it. It is the time of the year to check out those antennas and feedlines to determine if Old Man Winter took a toll on them.

Tornado season is here and hurricane season is just around the corner. Will you be prepared? Now is the time to start planning and making those preparations. Our SKYWARN program is being overhauled thanks to Buddy, KG4ABZ, and others so please lend support to this wonderful program. On the subject of SKYWARN, did you know it began over thirty years ago in Wisconsin and it originally operated on 75 meters. The founder of WARN, Weather Amateur Radio Network, as it was known then, recently became a silent key. Our ARES program has been taken to new heights thanks to Bob, KL7NL, who has began a ARES net on Wednesday nights at regular net time. Folks, please check in and support Bob and his efforts to establish this valuable program. If he and the other net controls can sacrifice time out of their schedules to be a net control then lets us take time out to check in with them.

At the April meeting we began making preparations for our premier club activity and that is Field Day. The planning will continue up until the big weekend arrives. It actually starts on Friday with the set-up. I would like to urge each and every one of you to come out and join in all the fun. If you are new to amateur radio I encourage you to make a point to come out on Friday to assist and observe the antennas going up. I can tell you from experience you will learn something about antenna theory and construction. If you are unable to make it on Friday reserve that weekend for Field Day and come out. I guarantee you will not regret it. Field Day is always the fourth weekend in June. I would like to thank in advance all those persons who help make Field Day such a successful club activity. I will list not the all the names but you know who you are and I salute you.

The next club meeting is May 15, Jennifer's birthday, and she will be seven. Where has the time gone? I will be there as the party is on Sunday. I hope I will have the pleasure of seeing you on May 15 at Methodist College. We have a very special presentation to make to the President of Methodist College, so please come out and lets show him our appreciation for all the things the college has done for us. Dr. Elton Hendricks is one of us and holds the call sign, W4VFW. Dr. Hendricks told me he operated for twenty years before he spoke into a microphone. Dr. Hendricks also spoke of home brewing his equipment from the ARRL Handbook. It will be a special night and look forward to seeing you on May 15. Thanks to all of you for making CFARS such a fine club and keeping on doing what you do so well.

73 de David KR4OE

## Old Timer Tip #6

### AND/OR GATES

Here is a question about using logic gates: "I recently saw a book of logic gates that described one gate as an AND/OR gate. How can it be both?"

It's all in how you look at it. Let's say that you have an AND gate with two inputs--Input A and Input B. Let's call the output C. We'll call voltage inputs True and False is no input. With nothing applied to the inputs, C is False (no output voltage). Now, if you make Input A True, nothing happens at C. If you make Input B True, nothing happens at C. But, if you make both Input A and Input B True at the same time, C will become True. So, True AND True equals True.

Now, let's look at the gate another way. Let's say that True equals no voltage and False equals a high voltage. Next, let's put a False (high voltage) on both inputs. Output C will now become False (high). If we remove the voltage from Input A, C will go low (True). If we put voltage back on Input A and remove the voltage from Input B (make it True), C will become True (low).

So, using this inverted logic, either A OR B (or both) will cause C to become True. This means that the AND gate has just become an OR gate. You'll find that an OR gate will also operate as an inverted logic AND gate. -

The Old Timer



## Win Tip #

### QUICK WINDOWS WALLPAPER

The World Wide Web is a virtual warehouse of clipart, photos, and other web graphics. If you find one you're particularly fond of, you can quickly set it as your Windows desktop wallpaper by right-clicking the image in Netscape or IE and choosing Set As Wallpaper from the Context menu. (Be sensitive to the designer's copyright, However. If the owner has posted a note on the site saying Not to use the images, the ethical thing would be to Respect the owner's wishes. - COMPU GURU



Welcome to the....

### W4LPL / REPEATER

**"The Red Carpet Repeater"**  
**147.93/33 in Fayetteville, NC**

**Proudly serving our community  
 and the best darn Hams in the  
 World!!!!**

## Hamfests

May 27	Durhamfest	Durham NC
June 10	Winston-Salem Hamfest	
July 8	Salisbury Hamfest	
July 15	Cary Hamfest	
August 5	Roanoke VA Hamfest	

## VE Testing

The CFARS VE Team will be holding another testing session 13 May 2000. The testing session will be held at Methodist College. Applicants need to bring the following items with them original license, original CSCE's, copies of both, a picture identification and \$6.65. Registration will begin at 9 am with testing to begin at 9:30 am. Talk in will be on the 146.910 repeater PL 100 Hz. Hope to see you there.



## Hellschreiber

Try something new...

### **OLD MODE FOR A NEW MILLENNIUM**

Thinking about upgrading your Amateur Radio digital equipment for the new Millennium? Perhaps considering some of the new high performance modes to give you better DX? Well how about Hellschreiber! One of the oldest digital modes used on HF - only CW is older - Hellschreiber offers high performance with simple equipment, and with modern Digital Signal Processing techniques, the mode is hard to beat.

#### **Imagine a mode which:**

Works at a comfortable typing speed, and is as slick to operate as CW

Performs very well with noise, interference and static

Copes well with ionospheric instability that cripples other modes

Offers the opportunity to use different fonts for individuality

Outperforms RTTY for DX in weak or noisy conditions

Requires only a simple CW or SSB rig, and no hardware or expensive modem

Hellschreiber advocates can be found on 14.063 Mhz working the world. The software for Hellschreiber with a PC sound card can be found on IZ8BLY's web site at <http://space.tin.it/computer/aporcino>

### **HELLSCHREIBER OFFERS HIGH PERFORMANCE DX**

For many years Hell-writing (which is a type of simple facsimile developed in 1927) has been considered to be no more than an oddity by the Amateur community, in fact most hams have never heard of Hellschreiber. It was however a simple mode, that offered very good performance in noisy conditions without requiring much power, if only you could find the equipment!

Now however, with Digital Signal Processing techniques and very good Windows 95 software, the Amateur Radio fraternity is offered the opportunity to experience an advanced digital mode that requires no apologies for its performance.

Hellschreiber can outperform other modes for DX, and requires nothing more than a CW or SSB rig and a PC with a sound card. If you operate PSK31, you can also operate Hell, and what is more, make contacts that are not always possible with PSK31 due to poor conditions.

Operation is simple, slick, easy to tune, and ideal for QSOs and nets. Because of the unique nature of Hellschreiber, you actually see an actual replica of the transmitted signal, so the font used, bold or italic, is faithfully reproduced. Noise adds fuzziness to the received text, but cannot cause incorrect characters to print. Information on Hellschreiber, operating frequencies and nets, and operating software for different types of computer, are available on the Internet at <http://www.qsl.net/zl1bpu>

### **TIRED OF TALKING TO MACHINES?**

Interested in digital modes, but want to talk to real people, instead of bulletin boards or sending email? Then try Hellschreiber! Hell what did you say? Hellschreiber (Hell writing) is a simple facsimile mode that is transmitted like high speed CW, and offers similar performance, without needing you to brush up your code. Hell performance in noise is legendary, and modern PC software offers real gray-scale text, different fonts and text sizes, and the advantages of DSP filters and detectors. Hell will work under conditions that cripple other modes (except CW of course). But do I have to buy another \$1000 modem to run Hell? NO! Use a simple Hamcomm interface, like you do for SSTV, or use a PC sound card, like you do for SSTV or PSK31. So check out the web site <http://www.qsl.net/zl1bpu> for information and operating software, and download the latest Windows 95 software from <http://ninopo.freeweb.org> SEE you in Hell! written by Murray ZL1BPU