

# VOX



## HUNTSVILLE AMATEUR RADIO CLUB

Huntsville, Alabama

Volume 44, Number 7

July, 2004

### Huntsville Amateur Radio Club Information

#### Club Officers

##### President:

Woodie Zeigler, K8GNM  
[tzeiglerjr@aol.com](mailto:tzeiglerjr@aol.com)

##### Vice President:

John C. Hilliard, K4JCH  
[k4jch@aol.com](mailto:k4jch@aol.com)

##### Secretary:

Rolf Goedhart K4RGG.  
[k4rgg@arrl.net](mailto:k4rgg@arrl.net)

##### Treasurer:

Heath Thorson, KC4HRX, 489-1240  
[hthorson@knology.net](mailto:hthorson@knology.net)

The club's address is Box 423, Huntsville, Ala. 35804. Meetings are held each Friday night at 7:30 P.M. at the American Red Cross Building, 1101 Washington Street. Dues are \$12.00 per year, family memberships are \$15.00 per year. The club maintains a Web Site at "<http://www.harc.net>"

The North Alabama Repeater Association operates repeaters on 146.34 / 146.94, 147.78 / 147.18, 223.34 / 224.94 and 448.5 / 443.5. NARA dues are \$16.00 per year and may be sent to NARA at P.O. Box 18941 Huntsville, AL 35804-8941.

The club's packet radio interest group, HUNTSPAC, maintains an extensive packet network for the Huntsville area. Dues for use of this network are \$15.00 per year, and can be paid through the HARC Secretary-Treasurer listed above.

The club's ATV special interest group, TVATV operates an ATV repeater. It's input frequency is 439.25 MHz and its output is 421.25 MHz. A voice coordination repeater is operated with output frequency of 145.33 MHz, input 600 kHz down.

The Vox is published the third Friday of each month except for August. Editor of the Vox is Frank Emens, W4HFU, 3714 Lakewood Circle, Huntsville, Ala. 35811 or [femens@hiwaay.net](mailto:femens@hiwaay.net). Material of interest to the HARC membership should be submitted to the editor by the second Friday of the month of publication.

"Vox", Vol 44, Nr 7, July, 2004

A Newsletter published monthly except for August by the Huntsville Amateur Radio Club, P.O. Box 423, Huntsville, AL 35804

### President's Comments

As this is my first article for the VOX, I want to thank the past officers for their leadership in the past year. Just a hint, just because you have finished your terms, John and I will still welcome your input and will still call on you for programs and suggestions.

Our first goal for the year will be to hold a successful, safe and fun Field Day. We are again privileged to hold the activities at Intergraph.

I would like to get more of our members qualified to work with the Red Cross. This will require a short class for volunteer orientation and first aid and CPR training. I'm hoping to offer these on meeting nights.

We also need to plan our level of participation in the August Huntsville Hamfest. The possibility of a combined booth with NARA needs to be considered. Please feel free to contact me with any concerns or suggestions.

73, Woodie, K8GNM

### Hamography

K4RGG -Rolf Goedhart:

Rolf has been a HAM for 5 years and a member of HARC for three years. He is entering his third term as Secretary for HARC. He is currently a General Class.

Rolf began his HAM interest as a by-product of his activity as a Hang Glider Pilot. Even though Hang Glider Pilots have two frequencies available to them; crowded conditions often interfere. Ham Radio has been a viable alternative for Rolf. He is fully into Hang Gliding, complete with his own glider, and all related gear.

Rolf has HF capability, but is primarily into VHF. He relates that he is not really into CW. He has 6 meters, 2 meters, and 70 cm for SSB. K4RGG is very interested in satellite work, and has an FT 847 for that mode. However the rotating antenna needed for efficient opera-

tion is currently out of reach financially.

Rolf's oldest daughter just received her Master's Degree in Math. His middle daughter also has her HAM ticket as KG4RXB.



Rolf was born and

raised in the Netherlands. He and his family moved here on a year long Sabbatical. After a year back in the Netherlands they returned here to stay.

Rolf is employed with IBI Global, as their Director of Information Technology. His other interests and involvement stem from his passion and interest

#### CAVEC License Exams

*Exam sessions are held at 9:00 AM the first Saturday of each month unless a holiday causes the session to be delayed for one week.*

*Upcoming sessions are:*

*Saturday, July 3*

*Saturday, August 7*

*For information contact:*

*Larry Frost, KR4GU, 536-4154  
[kr4gu@hamfest.org](mailto:kr4gu@hamfest.org)*

*Or*

*Don Tunstill, W4NO, 536-3904  
[dontunstill@hamfest.org](mailto:dontunstill@hamfest.org)*

*Exam Sessions are held the 3rd Saturday of each month at 1:00. In even numbered months they are held at the Athens EOC. In odd numbered months they are held in Madison at Intergraph, Building 15*

*For information contact Bob Hudson, W4RKH, 461-7905*

in water. That led to Sky Warn and Races as Training Officer; and ARES as Coordinator.

In HARC Rolf is known for his sense of humor; especially when dealing with the minutes of the meetings.

KC4HRX — Heath Thorson:

KC4HRX was first licensed in November, 1987, and received his General Class in 1994. Heath became Treasurer for HARC in 1997.

Heath's interest in HF extends only to Field Day. He enjoys Field Day Operation as long as it involves using only the mike. He is not big on CW. He is heavy into VHF and UHF; and has his own repeater on Mont Santo.

Heath's other interests include: His employment with Delta Airlines in Reservation Sales; Travel and volunteer work with the Madison County Sheriff's Office, as advisor over the Cadet Program; riding with the Deputies;

working in the Jail; and operating the Dispatch Radio.

Heath is blind, but has not been deterred by that fact. He holds an Associate Degree in General Education; and in May of 2000 received his BA Degree in Criminal Justice from Athens State University.



Heath was born 3 months premature. His blindness was due to a hospital mistake when he was given too much oxygen.

I asked Heath to discuss those areas he had been forced to address due to his blindness. "I have to work around the Sighted World. The Sighted World cannot and/or will not work around

me. People do not really want to really talk to me. They tend to be hesitant in order not to offend me; and thereby miss the opportunity to really communicate. I do not care about avoiding what they fear would offend. I would prefer they be as straight and as up front as possible; even blunt to the extreme. I do not like Game Playing. I do not want people holding back their expressing their true feelings. In college, there was a guy who for months avoided verbal contact with me. Finally, one day he admitted to me that he had been wrong in his lack of open communication with me. He and I came to a resolution after he realized I wanted direct and full communication. That put us both in a better place."

I asked Heath what had been his secret in being able to succeed in spite of his blindness. "Determination, Patience and Will Power. I have driven a car to Birmingham with a passenger holding the wheel. I even drove a car by myself at the old airport, with a friend talking

HARC ACTIVITY CALENDAR FOR July, 2004						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
27	28	29 ATV Net 2000 Check In 145.33	30 Southeast Linked Repeater Net 2000 on +442.775 PL 203.5 Hz	1 EMERGENCY NET on 34/94 @ 1930 Skywarn Net on 147.24 @ 2000	2 HARC Meeting	3 *TWIAR  Cavec Exams. 0900 at Red Cross Bldg.
4	5 Space Camp Fox Hunt	6 ATV Net 2000 Check In 145.33	7 Southeast Linked Repeater Net 2000 on +442.775 PL 203.5 Hz	8 EMERGENCY NET on 34/94 @ 1930 Skywarn Net on 147.24 @ 2000	9 HARC Meeting	10 *TWIAR
11	12	13 ATV Net 2000 Check In 145.33	14 Southeast Linked Repeater Net 2000 on +442.775 PL 203.5 Hz	15 EMERGENCY NET on 34/94 @ 1930 Skywarn Net on 147.24 @ 2000	16 HARC Meeting  NARA Mid Year Reviews	17 *TWIAR Appalachian ARC, Clinton/Norris, TN Rhea County ARS, Dayton, TN
18	19	20 ATV Net 2000 Check In 145.33	21 Southeast Linked Repeater Net 2000 on +442.775 PL 203.5 Hz	22 EMERGENCY NET on 34/94 @ 1930 Skywarn Net on 147.24 @ 2000	23 HARC Meeting  Big Stick On HELP HELP !!	24 *TWIAR
25	26	27 ATV Net 2000 Check In 145.33	28 Southeast Linked Repeater Net 2000 on +442.775 PL 203.5 Hz	29 EMERGENCY NET on 34/94 @ 1930 Skywarn Net on 147.24 @ 2000	30 HARC Meeting Auction	31 *TWIAR

\*TWIAR -- This Week In Amateur Radio, + 442.775 PL203.5 Hz 8 PM Every Saturday  
 ATV Net @ 20:00, Check in on 145.33, Tuesdays  
 Southeast Linked Repeater Net on + 442.775, PL 203.5 Hz @ 20:00, Wednesdays  
 Madison County Emergency Net on 34/94 @ 19:30, Thursdays  
 SkyWarn Net on 147.24 @ 20:00, Thursdays

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to me over an HT, at 60 miles per hour!!!!!!”

Why did Heath accept the job as Treasurer for HARC? “I wanted the job to solve the problem of checks sitting without being deposited for three to four months; with members concerned about being able to balance them out of their books. On 9 Jan of this year, we had all checks on hand; and by 15 Jan, on VOX night, we had them deposited. This happened not just due to my effort, but due to the work and assistance of a lot of people. KB4FGL wrote the program needed for handling the finances; but it was for the sighted. Much help was received and is received each month from people like Peggy Bell, John Lester, Scott Worsham and many others. My computers all talk to me; as well as my calculator and Caller ID. A lot of work goes into keeping the finances straight; at least 80 hours a year on my part alone, not even counting the effort of others.”

I asked Heath what his goals and desires for HARC were. “I want Frank

Emens, W4HFU, to receive full credit for and total club understanding of what he does for HARC as Editor of the VOX. There is an unbelievable amount of work, forethought and talent that Frank brings to that position, much more than can be covered here.”

“I want the club to continue to enhance and expand it’s involvement in emergency Operations and Exercises; along with EMA Training.”

“I want HARC to be all it can be !!!!!!!”

HARC !!!!! Welcome Your Secretary, K4RGG; and your Treasurer, KC4HRX to another term with a Very Solid RR !!!!!

73 WB0UCI, Fred Kersey  
**Cotton Row Run**

The 2004 Cotton Row Run, held on Memorial Day, Monday, May 31, 2004 thru the streets of downtown and east Huntsville, Alabama, is history. The scheduled 7:30am start of the 10K was delayed 90 minutes due to rainy weather that was in the process of moving out to the east - a good call by the

Race Director. This resulted in good racing weather - overcast, cool, very little wind, and the workers didn’t have to stand in the rain either. In addition to the 10K race, HARC hams assisted in the 5K race that followed the 10K.

The Cotton Row Run is one of our major public service events each year. Thanks to the following hams who provided needed communications: N4PDQ Andy, N4PCW Marilyn, KE4AHQ Barbara, W1TV Dick, K4RGG Rolf, and WD4CPF Leigh. My thanks also to the North Alabama Repeater Association for the use of the 146.94 NARA repeater, and to members and others who kept the repeater clear during the race.

73, Leigh WD4CPF  
**SK Walter O’Neal Frost, KR4YJ**

Neal Frost, or as he was known at his work site, Walt, passed away on Tuesday, June 15th. I first met Walt almost 48 years ago in September, 1956 when, with a newly minted engineering degree, I came to Huntsville to start work at the old Army Ballistic Missile

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Agency. I was assigned to his unit and joined in on their project, a new telemetry system for the Jupiter Missile system. Soon ABMA morphed into MSFC and I proceeded to work for or with Walt for the rest of my time with NASA.

I knew Walt as a truly good man who was easy to work with and who contributed substantially to his field of endeavor. Having met some of his family and having heard some of the things he had to say about them, I think I can say he truly loved them and I'm sure they will, along with myself and a whole band of other people, really miss Walter O'Neal Frost.

*Frank Emens, W4HFU*

**The Giggle Box**

Happy Birthday To Everybody That Was Born In July!!

A note from Giggles:

I can't believe this. I was reading my email and the following "reminder" from Heloise was there. Talk about being reminded to write your article! The editor had already reminded me (again) to do my article. When I read this one, my mouth fell open. I asked

myself, "What day is this? Tuesday. Whew! The day before Wednesday. I guess I better put off what I was going to do and get this article written."

"Taking Food to a Party? Instead of worrying about when the dish (you are bringing the food in) will be returned to you, buy inexpensive, but pretty, glass dishes or plates at yard sales. Put food in or on them and leave behind as a nice party gift."

I hope everyone is thinking what food they are going to put in the covered dishes. We might not want to bring GLASS to the picnic and I am not begging for new dishes. GRIN Everyone has been great in the past for bringing the appropriate dishes to the picnic. Contact me for picnic information. By the way, bring coolers. I hope to see all of you hams at the picnic. At the last HARC meeting, I received a plaque for helping the club. I don't do it for recognition, I just do it because it is fun. I want to thank everyone for the plaque. I am so thankful that Chris wouldn't let me say anything. Besides, I was speechless. I didn't want to be embarrassed by

blubbering. I couldn't think of anything appropriate to say, anyway. It is an honor to have my name on a plaque with Nancy Christian, N4CEU. I hope that I can live up to that honor. I don't do breakfast at Field Day, like I've heard that Nancy did, but I hope that I can help the club in other ways. I just do what I do because it is fun. Besides, that is what we have been hearing for the last couple of months from Chris Reed, KF4MMF about Field Day. It's funny how I read an email and think about someone while doing so and they aren't even the ones that sent it to me. You'll know what I mean when you read my "jokes". By the way, thanks to Bob for suggesting that I put my email address at the end of my article. Earlier in the month, someone sent me an email concerning the Huntsville Hamfest. I hope that it helped them out. I hope all the Dads have a happy Father's Day. CU @ FD!!

A Joke or Two

Wisdom From Grandpa Whether a man winds up with a nest egg, or a

goose egg, depends alot on the kind of chick he marries.

Trouble in marriage often starts when a man gets so busy earnin' his salt, that he forgets his sugar.

Too many couples marry for better, or for worse, but not for good.

When a man marries a woman, they become one; but the trouble starts when they try to decide which one.

If a man has enough horse sense to treat his wife like a thoroughbred, she will never turn into an old nag.

On anniversaries, the wise husband always forgets the past - but never the present.

A foolish husband says to his wife, "Honey, you stick to the washin', ironin', cookin', and scrubbin'. No wife of mine is gonna work."

The bonds of matrimony are a good investment, only when the interest is kept up.

Many girls like to marry a military man - he can cook, sew, and make beds, and is in good health, and he's already used to taking orders.

Eventually you will reach a point when you stop lying about your age, and start bragging about it.

The older we get, the fewer things seem worth waiting in line for.

Some people try to turn back their odometers. Not me, I want people to know "why" I look this way.

I've traveled a long way and some of the roads weren't paved. How old would you be if you didn't know how old you are?

When you are dissatisfied and would like to go back to your youth....Remember about Algebra.

You know you are getting old, when everything either dries up, or leaks.

don't know how I got over the hill without getting to the top.

One of the many things no one tells you about aging is that it is such a nice change from being young.

Ah, being young is beautiful, but being old is comfortable. Old age is when

former classmates are so gray and wrinkled and bald, they don't recognize you.

If you don't learn to laugh at trouble, you won't have anything to laugh at when you are old

First you forget names, then you forget faces. Then you forget to pull up your zipper, but it's really worse when you forget to pull it down.

\*\*\*Think a gallon of gas is expensive? This will give you another perspective.

- Diet Snapple 16 oz \$1.29 --\$10.32 per gallon
- Lipton Ice Tea 16 oz \$1.19--.\$9.52 per gallon
- Gatorade 20 oz \$1.59 -- \$10.17 per gallon
- Brake Fluid 12 oz \$3.15---\$33.60 per gallon
- Vick's Nyquil 6 oz \$8.35---\$178.13 per gallon
- Pepto Bismol 4 oz \$3.85 --- \$123.20 per gallon
- Whiteout 7 oz \$1.39 --- \$25.42 per gallon
- Scope 1.5 oz \$0.99 .. \$84.48 per gallon
- The REAL KICKER...Evian water 9 oz \$1.49 --- \$21.19 per gallon?! \$21.19 for WATER - and the buyers don't even know the source.

So, the next time you're at the pump, be glad your car doesn't run on water, Scope, or Whiteout, or God forbid Pepto Bismol or Nyquil. I thought about John and young Don T. with this one. Just a little humor to help ease the pain of your next trip to the pump.

\*\*\*

A Thoughtful Man

When Mike got home last night, his wife demanded that he take her out to some place expensive. So Mike took her to the gas station.

\*\*\*

WORLD'S EASIEST QUIZ

(This one is just for John H., because he says I never put the answers to my puzzles.) (Passing requires 4 correct answers)

THE QUIZ

- 1) How long did the Hundred Years War last? 116 years

- 2) Which country makes Panama hats? Ecuador
- 3) From which animal do we get catgut? Sheep and Horses
- 4) In which month do Russians celebrate the October Revolution? November
- 5) What is a camel's hair brush made of? Squirrel fur
- 6) The Canary Islands in the Pacific are named after what animal? Dogs
- 7) What was King George VI's first name? Albert
- 8) What color is a purple finch? Crimson
- 9) Where are Chinese gooseberries from? New Zealand
- 10) What is the color of the black box in a commercial airplane? Orange, of course.

Did You Know: As incredible as it sounds, men and women took baths only twice a year! (May and October)

Women kept their hair covered, while men shaved their heads (because of lice and bugs) and wore wigs.

Wealthy men could afford good wigs made from wool. The wigs couldn't be washed, so to clean them they could carve out a loaf of bread, put the wig in the shell, and bake it for 30 minutes. The heat would make the wig big and fluffy, hence the term "big wig."

Today we often use the term "here comes the Big Wig" because someone appears to be or is powerful and wealthy.

The Reminder for the Month of July

Toothpick - to remind you to pick out the good qualities in others.

Solve the puzzle: REETH LLWI EB OONMEES GHIRASH OURY ARMWTH

73 Peggy Bell (Giggles) K4EGB  
[pbell@hiwaay.net](mailto:pbell@hiwaay.net) SEW LONG!  
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**From The Editor's Wastebasket**

Let's welcome our new officers and plan to give them our full support for the next year. Plan to come to meetings each week with the idea that you are participating in the club, not that you are going to be there to be entertained. If you are asked to prepare and present a program (or for any other service for the club), do it if you possibly can. If you are aware of a good program that someone else might present, work with the officers to make it happen. Welcome back also to Rolf and Heath, who are back for a repeat performance.

After Field Day, the next big event in the HARC year is the Huntsville Hamfest. As I have said before, the Hamfest runs on ham-power. It will need the assistance of all of us, both in preparation and in presentation of the actual event. Move-in and move-out help is needed - one of the things that distinguishes our Hamfest with the dealers is the assistance in move-in, setup, and move-out, which they don't get at a lot of other hamfests. Let's all help to keep that reputation intact. Hospitality/Security help is needed during the hamfest to aid out visitors and to make sure they have the buttons indicating that they've paid admission. At the Huntsville Hamfest, you are a host/hostess, not a guest. Your prime reason for being there is to make sure the guests enjoy the hamfest.

The first big event in preparation for the hamfest is Big Stick-On (BSO) night. This year we will be mailing something close to 19,000 pieces going to Alabama and the adjoining states. It will be a long night if we don't have a big turnout of folks to help with this task. I'll try to offer a brief presentation beforehand on what you'll be doing on BSO night so we can be ready to dive into the task as soon as you arrive.



*Be careful around high-voltage equipment*

As usual, there will not be a Vox for August. Preparations for the Hamfest and other activities will get in the way. However, I'll plan to start work on the September Vox the week after the Huntsville Hamfest. Plan to get your inputs to me by Wednesday after the hamfest weekend. Sooner will, of course, be better.

Although Fred Locke's Intro To Ham Radio class will be well under way when you read this, if there is anything you can do to help him in this effort, let him know.

Positioned about this issue you'll find some of the pictures that Tom Hatter, K4AKC brought back from the Dayton Hamfest that there was not room for last month.

*73, Frank Emens, WAHFU*



*Dave Givens and Steve Bell Enjoying the Flea Markekt*



*John and Nancy Morris, K4XH and K4JD*

## NARA Notes: for July Vox

It should be that by the time you read this, all dues paid NARA members for 2004 have received their NARA news and command sheets either by e-mail or snail mail. I sent the e-mails out around the 1st week of June and Charlie is working on the snail mail batch as I type this. If we missed you, let us know - we will take care of it. Members received a 2 page command sheet with some newly changed codes in order to standardize commands to be the same on different repeaters best we can. Members also received an expanded 4 page version of the NARA news with pictures and a map. More in-depth information about both the status and operating notes are contained in that version. The regular version is a 2 page version which you are encouraged to distribute freely. It is my hope that this version will attract new members allowing us to continue to build up our capabilities in the midst of change. The expanded version is one way of saying thanks for supporting NARA ! The NARA mid year update meeting is Friday July 16th. This is your meeting. Let me know about anything you would like to hear about. As always, we will have the latest status and plans but I hope it is more than that. I am always in search of the few folks who are interested in going the extra mile when it comes to repeaters. There are some "would be repeater builders" out there and we would like to help equip you to get started. One of the best ways to learn is to help out with club repeaters & then one day having your own machine might be easier than you think ! If you just want to know how to better use the club machines better, well - we'll cover that too - see you July 16th !

The "new" 443.500 machine is finally on the air after many hours on the bench and more than one trip to the site. There is still some fine tuning and adjusting to be done so keep in mind that we're not all the way there yet & a few features might not work yet but stay tuned and used what is there for now. This will bring the "mute mode" trouble we had with the old system to an end. It may not sound much different to you now but it will be more reliable in the long run. With that machine and the newsletter done - and given the

My name: Fred Locke, KA5CMM.

I am planning an "Intro to Ham Radio" class this summer via the Valley Fellowship Church Small Groups called "Hamming It Up".

The class will be open to the public and held in the Valley Fellowship Church fellowship hall at 7:00 pm Tuesday evenings.

Special speakers will be present for several of the evenings to add more information and their personal insight into the world of ham radio.

The goal is to build up interest in Ham radio for the whole community. Each evening will have a general information session and a Mentoring session for the Amateur Technician License.

The length of our small group will be 8 weeks long and will end just before the August license testing and the Huntsville Hamfest.

Extra outside events will be the ARRL field day and CQ VHF contest. Class members will be encouraged to become part of these events.

June 6 - Rally Sunday - 1st Sign up time

June 12 & 13 - June VHF QSO party

June 15 - 1st Meeting- What is Ham Radio & Licensing - ARRL/HARC and other local groups

June 22 - 2ND Meeting - Repeaters/links

June 26 & 27 - ARRL Field Day

June 29 - 3RD Meeting - Emergency Communications/SkyWarn

July 6 - 4TH Meeting-Propagations / Contesting

July 13 - 5th Meeting-Digital Communications

July 17 & 18 - CQ VHF Contest

July 20 - 6th Meeting-IRLP and Echo Link

July 27 - 7th Meeting-Other Modes of Communication

Aug 3 - 8th Meeting-Test Refresher

Aug 7 - Ham Test

Aug 14th & 15th - Huntsville Hamfest

Proposed Speakers are:

1)Greg Sarratt, W4OZK. Alabama Section Manager for the ARRL, American Radio Relay League.

2)Ron Schaffer, W4VM. Current President of NARA, North Alabama Repeater Association and current Alabama state repeater coordinator.

3)Charlie Emerson, N4OKL. Secretary of NARA and owner of the 146.45 IRLP, Internet/Radio Linking Project, equipment.

4)Harley Henson, WB4CRG. Owner/operator of the 147.24 repeater which is part of the linked repeater system of north Alabama. SkyWarn uses this linked repeater system for storm spotting to the National Weather System.

5)Robert K. Hudson, w4rkh. Past SkyWarn/US weather bureau coordinator.

many hours I have put in - I plan to scale back a bit for the summer & focus on other areas like my family and yes field day & the hamfest. But while I'm budgeting my time, perhaps one of you

could work on one of the many individual projects back at your shack ?? - things like battery back-up, remote receivers and more. Oh yea, there are some tower parties needed - anyone

July, 2004

Vox

want to take that bull by the horns ? Interested? Or have inputs ? - While I don't always make the Friday night meetings, I do try to make the Tuesday Ham lunch at Ryans on south parkway. I'd love to talk repeaters there !

73. Ron

### Area Hamfests

July 17, Appalachian ARS

Clinton/NorrisTN Swap Meet. See [Http://www.meers.org/html/a\\_a\\_r\\_s.htm](http://www.meers.org/html/a_a_r_s.htm)

or contact Christopher George, KU4LV, 865 494-4068 or [ku4lv@comcast.net](mailto:ku4lv@comcast.net)

July 17, Rhea County ARS

Dayton, TN. See [Http://www.rcars.net](http://www.rcars.net)  
or contact Tommy Mize, KO4SY, 423 570-0840 or [ko4sy@arrl.net](mailto:ko4sy@arrl.net)

73, John Farr, KC4ZXX

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