

# VOX



## HUNTSVILLE AMATEUR RADIO CLUB

Huntsville, Alabama

Volume 42, Number 10

November, 2002

### Huntsville Amateur Radio Club Information

#### Club Officers

##### President:

Tom Duncan, KG4CUI  
Duncan1@ds-s.com

##### Vice President:

Tim Cunningham, N8DEU  
Tim\_cunningham@mindspring.com

##### Secretary:

Rolf Goedhart K4RGG.  
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##### Treasurer:

Heath Thorson, KC4HRX, 722-0250  
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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. Material of interest to the HARC membership should be submitted to the editor by the second Friday of the month of publication.

"Vox", Vol 42, Nr 10, November, 2002  
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### From the President

Two cornerstones of the Huntsville amateur radio community became silent keys over the past several weeks. Bill Christian, K4IKR, was one of HARC's founding fathers. Those of us who did not know Bill personally came to know him through W1TV's HARC 50th Anniversary video. Dave Light, K4IQU, helped foster the kind of repeater coverage we now enjoy back when simplex was the rule rather than the exception. These two treasures are gone, but certainly not forgotten.

The program juggernaut is moving full steam ahead! Marshall Space Flight Center, through John Morris, has made seven interesting areas of technology on which they can supply speakers available to HARC and the DX Club. The first program, "Space Optics", is scheduled for our Friday, November 1 meeting, and in preparation, John will show the "Optics" tape from his "Mechanical Universe and Beyond" series at the October 25th meeting. Thanks to John, MSFC, VP Tim, and all those who have presented programs.

Let's welcome new members Jamie Lucas, K9LTR, and Charles Corsetti, KG4UWE. If this one-new-member-a-week trend continues, we'll have to talk with the Red Cross about that balcony addition to the Wikle room.

73 - Tom Duncan, KG4CUI

### Silent Keys:

The Huntsville Amateur Radio community lost significant parts of its history during September of this year with the passing of Bill Christian, K4IKR and Dave Light, K4IQU.

Bill Christian, K4IKR

Those of you who have seen the HARC 50th Anniversary video have some idea of the part Bill Christian played in the early history of the club. He started his ham career, like many of us, on the 75-Meter band with the old AENP and AENM (the 75M AM net and the 75M SSB nets.) Being the extro-

verted guy he was, he quickly became friends with most of the hams in the state who worked the nets. Later on, he got interested in DX operation, ending up with a first class DX station and antenna installation from his near ideal location on Cave Hill. Again his extroverted approach got him known the world over as the big DX signal from Alabama and he quickly moved up to the exalted heights of those who had worked just about every DXCC country available. DXers all over would recognize his signal and make it a point to work him. He became a regular and active member of the North Alabama DX Club when it was started. He loved contests, especially Field Day and it was Bill who came up with the phonetics that have been used ever since, "Kilo Four Big Fat Turkey".

For quite a few years it was routine that, during weather alerts, Bill would go to the Weather Service office and I'd go to the EMA. It was not unusual for us to spend hours, usually late at night, at opposite ends of a 2-Meter link.

Years ago, HARC members would adjourn to the old Dwarf Restaurant on the Parkway near Governor's Drive for coffee and whatever along with

### CAVEC Amateur Radio License Exams

Exam sessions are held the first Saturday of each month unless a holiday causes the session to be delayed for one week.

Upcoming sessions are:  
Saturday, November 2  
Saturday, December 7

For information contact:

Larry Frost, KR4GU, 536-4154  
KR4GU@hamfest.org

Or

Don Tunstill, W4NO, 536-3904  
dontunstil@hamfest.org

some swapping of lies and tall stories after the Friday night meetings. When the Dwarf went out of business, some of the group went instead to cluster around Bill & Nancy's kitchen table for coffee and tall tales. That tradition continued right up to the present, with locals and an occasional visitor from the DX world or elsewhere dropping in. Over the years, just about every subject you could imagine, technical and not so technical was discussed around that table and I wouldn't trade anything for the opportunity to have participated in those sessions.

Huntsville will not be the same without Bill Christian.

Dave Light, K4IQU

Dave Light's interests centered more on technical matters than on on-the-air operation. When I first came to work at ABMA in 1956, fresh out of Auburn, I knew only one or two Huntsville area hams from 75-Meters. On my first day, when Charley Birdwell, W4THW, who worked in the same section as I did, was introducing me around, I met Dave, making him the second Huntsville ham

I met when I came to town. One of Dave's interests at the time was AM Broadcast DX reception. He had built up a super receiver that would let him listen to AM stations all over the country even during daylight hours with signals the rest of could only wish for. (At that time, the AM Broadcast band had not become the wasteland it is now and there were signals worth listening to.) He also figured out how to modify the FM section of the transistor AM/FM pocket radios that were becoming available at the time to receive police and aircraft signals that were above the FM band. If you have access to old QSTs you'll find an article of his that they published about these modifications.

Dave was also very much 'into' chess and lunch breaks at work would often find him at Leo Wilson, K4OCV's desk hovering over a chess board. His main interest in the computer revolution, when it came along, was in chess playing programs.

The band to be on for local contacts at the time was 6-Meters AM. 2-Meters had not yet become popular, but when the

first generations of commercial FM gear began to be changed out for more modern transceivers and the changeouts became available on the surplus market, Dave was one of those in the forefront at modifying the gear for 2-Meter ham use. Remember, these transceivers were all vacuum tube sets and were BIG. Dave was also involved in getting the first 2-Meter repeater on the air here in Huntsville. Bill Landry, W4JOW, remembers:

"The original location was at the Red Cross remote base/repeater site on Monte Sano. We hauled the six foot rack containing the repeater up there on a rainy Sunday afternoon in my 1965 Plymouth station wagon and manhandled it through the mud to a small equipment shack in the Red Cross director's back yard. There was an existing 100 ft Rohn tower there supporting the antennas for their remote base. We used the Hy-Gain Model GPG-2A 5/8 wave antennas at 90 and 60 feet with the top one used for receive."

HARC ACTIVITY CALENDAR FOR November, 2002						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
27	28	29 ATV Net 2000 Check In 145.33	30 Southeast Linked Repeater Net1900 on 147.240	31 EMERGENCY NET on 34/94 @ 1930 Skywarn Net on 147.24 @ 2000	1 HARC Meeting  Space Optics by MSFC Representa- tive (tentative)	2 CAVEC Amateur Exams, 0900 at Red Cross Building.  Georgia Section Convention, Lawrenceville, GA
3 Georgia Section Convention, Lawrenceville, GA	4 20th Annual Space Symposium & AMSAT-NA Annual Meeting, Ft Worth, TX, Nov 7-11	5 ATV Net 2000 Check In 145.33	6 Southeast Linked Repeater Net1900 on 147.240	7 EMERGENCY NET on 34/94 @ 1930 Skywarn Net on 147.24 @ 2000	8 HARC Meeting  Project OSCAR, Dick Esneault, W4IJC	9 Montgomery ARC, Montgomery, AL
10	11	12 ATV Net 2000 Check In 145.33	13 Southeast Linked Repeater Net1900 on 147.240	14 EMERGENCY NET on 34/94 @ 1930 Skywarn Net on 147.24 @ 2000	15 HARC Meeting  Vox & Social Night	16
17	18	19 ATV Net 2000 Check In 145.33	20 Southeast Linked Repeater Net1900 on 147.240	21 EMERGENCY NET on 34/94 @ 1930 Skywarn Net on 147.24 @ 2000	22 HARC Meeting	23
24	25	26 ATV Net 2000 Check In 145.33	27 Southeast Linked Repeater Net1900 on 147.240	28 EMERGENCY NET on 34/94 @ 1930 Skywarn Net on 147.24 @ 2000 (Also Thanksgiving Day, Folks may still be too stuffed to meet these nets)	29 HARC Meeting  Thanksgiving Week- end, No meeting.	30

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The original Repeater Association was formed as "The North Alabama Repeater Association, Inc." and came into existence on 2/10/69. The officers were:

- Dave Light, K4IQU, President
- Gene Young, K4ZQM, Vice President
- Leo Wilson, K4OCV, Secretary
- Steve Long, K4MMG, Treasurer
- Bill Landry, W4WGI (now W4JOW) Technical Advisor

Dave had not kept close contact with the Amateur Radio community in the last few years, but there can be no doubt that he left his mark on Ham Radio in Huntsville and North Alabama. He will surely be missed.

*73, Frank Emens, W4HFU*

### EMA/RACES News

Hello everyone! Looks like cooler weather has finally made it to Huntsville. With this change in temperatures comes our secondary tornado season in November. Hopefully, you received the announcements at the club meeting or on the Madison County

Emergency Net of our storm spotter class on October 24th at 6:30 in the Jaycees Bldg. on Airport Rd. Tim Troutman from the National Weather Service in Huntsville will be instructing. We hope to have a large attendance.

The RACES unit was featured on WAFF-TV news last month during tropical storm Isidore. Besides calling the guys "amateur ham radio operators" the story was a great promotion for amateur radio in our county as a whole. It is good now and then to remind the public that amateur radio is still here and ready to serve at a moment's notice.

During the last meeting, the RACES unit has received training on exercise planning and conduct and they made preliminary plans to conduct a net on 147.22 one night during the last week of the month. Monday will likely be the day and the time will likely be 7:30 in the evening. This will allow the guys to check out how well the repeater is working and to get used to the net format. It may even provide the chance for someone to make a request for a dinner meet!

The 147.22 repeater is still doing well. Ken, W4WEY tells us that a fellow ham was able to make it in (scratchy but readable) on an HT from his boat at Tims Ford near Tullahoma, TN. We are glad to have the repeater running so well again.

Those interested in RACES are welcome to attend our meetings. Our monthly RACES meetings are held on the second Thursday of the month at 6 P.M. in the Emergency Management Agency office downtown. We usually have a business meeting and then some type of training class afterward. Please call me at 427-5130 for directions or more information. We require that members attend storm spotter class every two years and complete FEMA online courses IS-1: Emergency Program Manager and IS-2: Emergency Preparedness USA, in order to get an orientation to emergency management operations. RACES applications are downloadable at: <http://www.madisoncountyma.com/RACES.htm>. In an effort to re-organize the unit last year, we have started over

with new applications and new photo ID cards. We have about 20 members thus far. All members are required to be active and work with the ARES group during severe weather nets and to assist EMA as needed. Please check us out at [www.madisoncountyema.com](http://www.madisoncountyema.com) and at [www.hmcraces.org](http://www.hmcraces.org).

Hope you have a wonderful upcoming holiday season!

73, *Scott Worsham, EMA RACES  
Coordinator*

## November Programs

Mark your calendars for Friday, 01-NOV-02, to enjoy a presentation on Space Optics from Marshall Space Flight Center.

On Friday, 08-NOV-02, I am honored to announce a very special guest speaker. Dick Esneault, W4IJC, will present the history of "OSCAR-1". This is a rare opportunity you will not want to miss. Dick is an original member of Project OSCAR. OSCAR stands for Orbiting Satellite Carrying Amateur Radio. It was the first Amateur Radio Satellite that was put into space. This all happened in an era called the "Space Race" when the United States and Russia were at it full speed ahead. When you hear the story about OSCAR-1 from one of the original team members, it is like stepping back in time and reliving the dedication and spirit that was involved in the project. Learn what it was like to build a satellite when they were just being imagined. The camera's will be rolling at this meeting to preserve the history of this great Amateur Radio accomplishment.

If you have an interesting topic you would like to share with your fellow Ham's or you know somebody who has an interesting topic to share with us, please contact me so we can schedule some activity for the month of December.

73, *Tim Cunningham, N8DEU Program  
Chairman and VP*

## Verticals for 60 meters?

Perhaps you are waiting for the pall of uncertainty over the proposed 60m band to lift before planning an antenna. The resourceful homebrewer can explain away an aborted attempt at a transmitter (how's this: "my Bic pen coil forms were 3/8 inch diameter, but I calculated those 40m coils for 5/16 inch" -

I'm still practicing my delivery), but putting up antennas for bands which might never come to be invites the kind of ridicule which gave Douglas Corrigan his better-known first name, "Wrong Way". Still, if you want to be the first ham on your block to have a legal 60 meter QSO, you'll have to find room for that antenna, and a 90-foot long dipole might stretch your space constraints.

I never had a ground-mounted vertical, and decided that 60m offered the perfect opportunity to experiment with one. At the same time, I wanted to actually get on the air and see if these things work, as my 30m dipole works considerably worse than my vinyl rain gutters on 80m. A top-loaded vertical with a removable, customizable top section sporting a loading coil and whip or capacitive hat seemed like a worthy idea - I could work 80m today, build another top section, and work 60m some time in the future. Now, what about that loading coil, matching network, capacitive hat, and those radials?

Fortunately, electronic and hardcopy publications about ground mounted verticals abound. For some time-honored material, see ARRL's Technical Information Service antenna topics at [www.arrl.org/tis/info/Vertical-h.html](http://www.arrl.org/tis/info/Vertical-h.html), in particular, "The Ground-Image Vertical Antenna" by Jerry Sevick, and "Designing a Vertical Antenna" by Walter Schulz. These present formulas for vertical configurations with various loading positions. The ARRL Antenna Book and the compendia, available at our friendly local GigaParts, also cover helical verticals - another way to increase the antenna's electrical length, but not well-suited to my removable top section notion. W4RNL's information at [www.cebik.com/radio](http://www.cebik.com/radio) is particularly helpful if you want to model your antenna while waiting for the band to open. I used a set of programs by Reg Edwards at [www.btinternet.com/~g4fgq.regp](http://www.btinternet.com/~g4fgq.regp) to perform my design calculations, and can report they worked very well on 80m.

While hoisting my behemoth into the air was a sometimes-scary experience, it was all under control, and most importantly, safe. Make sure all your antenna operations are safe, too. Don't clobber cars, pets, windows, innocent bystanders, or other hams. Most importantly,

stay away from power lines, and look before you lift!

73, *Tom Duncan, KG4CUY*

## APRS Sat and ISS Experiment

Have you been listening to 145.825 MHz lately. This is the frequency where PCSAT operates as an APRS digipeater in space. The APRS digipeater on the ISS has also been changed from 145.800 MHz to 145.825 MHz to allow experimentation with multihop APRS satellites.

If you are still in the dark, now is the time to wake up and dust off those old TNC's. Heck, who needs a TNC anymore when there are sound card drivers to turn your computer sound cards into full blown TNC's. The ISS team has been very helpful in supporting the frequency change of the ISS digipeater from time to time in order to support the ability of a multi-hop satellite to satellite digipeating system to expand the coverage of the APRS network in Space.

Stay tuned for more details. In the mean time, get those TNC's out of the closet and get with the APRS plan.

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Come on down to the club meeting on Friday, 08-NOV-02, and hear a real satellite pioneer talk about the first Amateur Radio radio satellite called OSCAR-1.

73, Tim Cunningham, N8DEU AMSAT  
Area Coordinator

## THANKSGIVING

Greetings! Imagine if you will, the very first Thanksgiving ceremony. It had probably been carefully planned from the start; everyone who showed up was expected to bring some kind of dish for the privilege of just being there and enjoying the festivities. Everybody helped with the preparations because back then it was "60-40". One always gave 60% in hopes of a return-effort of 40% from "the other guy".

For a long time, that approach worked fine. But imagine how this went after a few years! Many folks figured that every year, there was more food than people to eat it. So, they started bringing less food every year, figuring there would always be enough to eat. First, it was only the extra food that was missing. But soon, there wasn't enough food to feed the masses because \*everybody\* assumed "the other guy" would bring more than enough.

Then it became a problem after a while because only a few folks would bring only the bare necessities and there was NO dessert. Or rolls. Or even any lousy gravy! That might have been a self-correcting problem back then.

The VOX situation is similar. As I see it, everyone that "eats from the table" (reads the VOX) really should try to submit at least ONE lousy article a year, "for everyone to partake of". I know of whence I speak, because I have submitted several lousy articles over the years. And sadly enough, Frank continues to publish them. Which tells me he doesn't have NEAR enough submissions to choose from with decent content.

So how about it folks? How hard could it be to sit down once a year and put your thoughts to e-mail. Or even "snail-mail" if you don't have a computer? Worried about typos or grammatical errors? Don't be..... that's why they call Frank the EDITOR. Speaking of which, I was glad to see that in the last VOX, our editor wrote a nice long piece. It should always be so! Alas...so much of our readership has thoughts/opin-

ions/ideas. But for some reason, they don't want to express themselves. Why is that? Could it be concerns of "political correctness"? Some folks like Tim (the satellite guy) pull their weight with numerous informative articles. But the other "hundreds" one seldom hears from.

Seems to me 5% of the readership submits "stuff". The idea here is to provide enough "food" to feed the total membership. 5% ain't enough...it needs to be at least 40%. Why, I'll bet even my Dad (the German Rocket Scientist Ph.D) could provide some insight as to why the Saturn V needed exactly 91 motors to do the job. Or exactly how the 300 baud telemetry worked. Even some insight regarding the details of radio communication of the day might enlighten some of the younger membership who weren't even alive when the shuttle made its first flight.

Ham Radio persists ONLY because the older "Elmers" pass along their experiences! Magnetic Core Memory....anybody remember that and how it worked? Still, I love to hear the stories about how the Lunar Lander had the total computing power of TWO Commodore 64s. Remember those?

Surely we have a diverse-enough membership that could enlighten us with stories ranging from paper-tape readers all the way to the proper procedure for programming a Flash memory chip....and everything in-between? And sure, why not your favorite memory of how you cut the line-cord on your reading lamp while it was still plugged in? Remember the cratered cutters and the bright flash? So.....tell us about it!

73 Chris WBAUFQ

## The Giggle Box

Happy Birthday To Everybody With Birthdays In October And November !!

A note from Giggles:

I can't believe that summer is gone and October is almost over. It won't be long til Christmas. Just a few days ago, everyone was running around in their short-sleeve shirts. The leaves are turning pretty fall colors, but I just wished that they would stay on the trees, though. I don't like to see the trees without any clothes on them. Oh, well, I guess they get tired of the same old clothes too. :) I guess there is one good thing about the change of weather, you



Rolf Goedhart, K4RGG "suits up" for hang gliding with assistance from Ray Helman at HARC meeting Sept 6

don't have to mow the grass for a few months. I hope everyone has a happy and safe Halloween and Veteran's Day. I hope all the kids get lots of loot and nobody gets tricks played on them. Don't forget to honor the veterans on Veteran's Day.

A Joke or Two

Little Johnny's kindergarten class was on a field trip to their local police station where they saw pictures tacked to a bulletin board of the ten most wanted criminals. One of the youngsters pointed to a picture and asked if it really was the photo of a wanted person. "Yes," said the policeman. "The detectives want very badly to capture him."

Little Johnny asked, "Why didn't you keep him when you took his picture?"

\*\*\*

A new teacher was trying to make use of her psychology courses. She started her class by saying, "Everyone who thinks you're stupid, stand up!" After a few seconds, Little Johnny stood up. The teacher said, "Do you think you're stupid, Little Johnny?"

Johnny said, "No, ma'am, I just hate seeing you standing there all by yourself!"

\*\*\*

Little Johnny watched, fascinated, as his mother smoothed cold cream on her face. "Why do you do that, mommy?" he asked.

"To make myself beautiful," aid his mother, who then began removing the cream with a tissue.

"What's the matter?" asked Little Johnny, "you giving up?"

\*\*\*

The math teacher saw that little Johnny wasn't paying attention in class. She called on him and said, "Johnny! What are 2 and 4 and 28 and 44?"

Little Johnny quickly replied, "NBC, CBS, HBO and the Cartoon Network!"

\*\*\*

**Subject: Heaven Can't Wait**

An 85-year-old couple, after being married for almost 60 years, died in a car crash. They had been in good health the last ten years, mainly due to her interest in health food and exercising. When they reached the Pearly Gates, St. Peter took them to their mansion, which was decked out with a



*Clear For Take Off -- Rolf Goedhart and Ray Helman demonstrate hang gliding gear at September 6 HARC meeting*

beautiful kitchen, master bath suite and

a Jacuzzi. As they looked around, the old man asked St. Peter how much all this was going to cost. "It's free," St. Peter replied, "this is Heaven." Next, they went out in the back yard to survey the championship-style golf course that the home was located on.

They would have golfing privileges every day and each week, the course changed to a new one representing the great golf courses on earth. The old man asked, "What are the green fees?"

St. Peter replied, "This is heaven, you play for free." Next, they went to the club house and saw the lavish buffet lunch with the cuisine of the World laid out.

"How much to eat?" asked the old man.

"Don't you understand yet? This is heaven, it is free!" St. Peter replied, with some exasperation.

"Well, where are the low fat and low cholesterol tables?" the old man asked timidly.

St. Peter lectured, "That's the best part - you can eat as much as you like of whatever you like and you never get fat and you never get sick. This is Heaven." With that, the old man went into a fit of



*John Hilliard, demonstrates his Palm Pilot based APRS setup at October 11 HARC meeting*

anger, throwing down his hat and stomping on it, and screaming wildly. St. Peter and his wife both tried to calm him down, asking him what was wrong.

The old man looked at his wife and said, "This is all your fault! If it weren't for your blasted bran muffins, I could have been here ten years ago!"

The Thoughts for the Months of October and November

It's not that I'm afraid to die, I just don't want to be there when it happens.  
- Woody Allen

It is never too late to become what you might have been. - George Eliot

Solve the puzzle: LLWE OEDN SI TTEEER ANHT ELLW IASD. - MINAJNEB NILKNARF

73, *Peggy (Giggles) Bell, K4EGB SEW LONG!*

### The Editor's Wastebasket

Oh Happy Day!!! I was informed that that electronics company up in Dolly Partonville, TN (Ten-Tec) started shipping out Argonaut V transceivers today and expects to clear the backlog of orders by the end of the week. That means by the time you read this (unless you sneak a peek Friday night) I should have one in my hot eager hands. I've been eager to get access to one of these transceivers because, until the Ten Tec Orion comes out, it should be one of the most up-to-date software defined radios. Especially since the firmware code for it was just finished up last week. There are rice-box transceivers that use IF Digital Signal Processing (IF DSP) and digital synthesizers, but their designs are probably a year or more older. This being the latest and greatest in radio technology, I'm curious to see how it works out.

One of the things that would really MAKE the idea of software defined radios take off would be for a manufacturer put out a transceiver along with commented source code for the DSP and control functions (Never Happen) so the owner could do his own tweaks and modifications. I fully expect to see that someone has 'hacked' the code in one of the popular boxes before long.

One of the more obvious advantages of IF-DSP is the ability to redesign the radio by simply changing the firmware. For example, When the approval for 60-Meters comes through, all it should take is a fresh firmware download to

add full capability for that new band. One of the less obvious advantages is the ability to attain near theoretical performance in filters and such. Regular analog designs require extremely careful (and expensive) matching and tweaking of component values to get good performance. That's apparently not so with DSP. Now if we could just come up with software defined antennas! I'm afraid the closest thing we'll come to that in the foreseeable future is this thing called the Internet.

Please pay special attention to Chris, WB4UFQ's item this month. I'll take issue with one of his points. He does not write lousy articles. They usually offer an unconventional view of what might otherwise be a routine subject. I hope he continues writing the 'lousy' things. One thing I'd add to his words is that you should not "take it for granted" when someone provides an interesting item for the Vox. If someone submits something to the newsletter that you like, let them know you liked it. That will increase the probability of it happening again.

Although I refer to having articles in my "emailbox", don't assume you have to use a computer to get material to me. Anything I can read will do. Spelling and grammar don't matter, but legibility does. You should consider though that lipstick on tissue paper takes a bit longer to decipher and you should use the published deadline of Friday before Vox night to give me time. The looser time restraint on email submissions is simply because they require minimum retyping.

73, *Frank Emens, W4HFU*

### November Hamfests.

- November 2 - 3, 2002

Georgia Section Convention, Lawrenceville, Georgia.

See <http://www.totr-radio.org> or contact Randy Bassett, KR4NQ at 770-663-4244 ext 3989 or [kr4nqf@bigfoot.com](mailto:kr4nqf@bigfoot.com).

- November 9, 2002

Montgomery ARC, Montgomery, Alabama. See <http://jschool.troyst.edu/~w4ap> or contact Phil Salley, K4OZN, 334-272-7980 or [k4ozm@arrl.net](mailto:k4ozm@arrl.net).

73, *John Farr, KC4ZXX*

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