



# AARC/OVER

**Bulletin of Austin Amateur Radio Clubs**  
Austin Amateur Radio Club  
Austin Amateur Television Club  
Austin Repeater Organization

**Sept./Oct. 1994**

ISSN 1067-0262

## Club Meetings

**Austin Repeater Organization**  
Next meeting Tuesday, October 4 at 7:30 PM.



**Austin Amateur Radio Club**  
Next meeting Tuesday, October 11 at 7:30 PM.

**Austin Amateur TV Club**  
Next meeting Wednesday, October 19 at 7:30 PM.

All three clubs meet at Luby's Cafeteria on North Loop, about a block west of Burnet Road. We meet in the backroom, as far from the cash register as we can get! Most folks come at 6:30 or 7 and have supper together before the meeting. Visitors, whether licensed hams or not, are welcome.



## G'Town Ham Classes

Our go-getter neighbors to the north are putting on classes for folks wishing to earn their Novice or Technician licenses. The Williamson County Amateur Radio Club classes begin Saturday, October 1, and run from 9:30 to 11 AM. The location is the Georgetown Independent School District Administration Building, 603 Lakeway Drive.

For more information please call Dick, W2IE, at 255-9254, or Danny, KC5AIX, at 255-1068.

## AARC/Over Editor Struck By Asteroid!

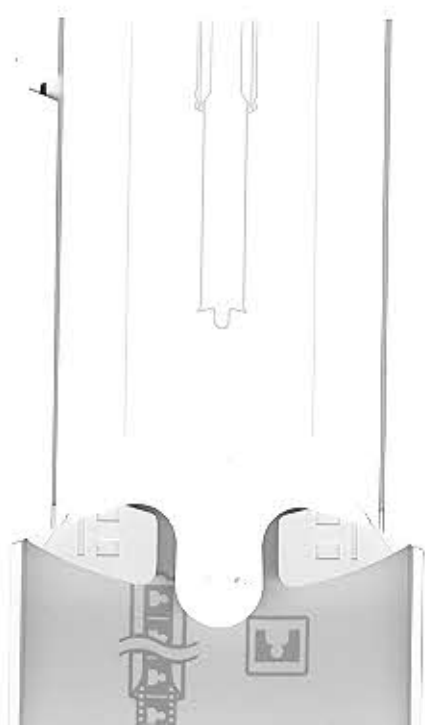
Well, actually, our editor Steve Means, N5PSW, had to resign due to increased job responsibilities. Steve edited the AARC/Over for the last year and a half, and we thank him for a job well done!

Now about Steve's replacement.... Lots of our members own some hum-dinger desktop publishing software nowadays, but have nothing to publish. This is your chance to actually use it for a good cause! Your efforts will be read by some 500+ subscribers, plus uncounted pass-along readership (for example, customers at Tarrytown Barber Shop).



With corporate downsizing all around, this is an easy way to expand your work-relatable experience and make yourself even more indispensable than before. It only takes a morning each month, and there are more articles available than we have room for.

If you'd like to find out more, please contact Jim Neely at 442-4812 or by e-mail at [jneely@tcet.unt.edu](mailto:jneely@tcet.unt.edu) (Internet).





P.O. Box 4763, Austin, TX 78765

*Amateur Radio Club*

*Operators of Voice Repeaters on*

*146.28/88, 146.34/94, 223.20/224.80, and 449.1/441.1 Mhz*

*Packet Digital Repeater 145.01 MHz*

*Sponsor of Central Texas Weather Net, ARO Transmitter Hunt and Swap Net*

## CLUB OFFICERS

President	Phil Steinbach	WB5SUR	258-3215
Vice President	Jeff Schmidt	N5MNV	255-6753
Secretary	Paul Parker	N5ZLX	467-7070
Treasurer	Bill Montgomery	AB5HP	478-7928

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### Minutes of the Austin Repeater Organization Meeting August 2, 1994

The meeting was called to order by President Phil Steinbach [ WB5SUR ] at 7:30 PM at Luby's North Loop cafeteria. There were approximately 85 people in attendance.

The minutes of the July 4, 1994 meeting were approved.

#### Treasurer's Report:

We have \$5,361.01 in the bank.

#### Engineer's Report:

All equipment was reported to be in working order.

#### Announcements:

There were several information only announcements.

Old Business: none

New Business: The time of transmitting Newline was discussed. Nick Broline [W5FUA] made a motion that the club supports the transmission of Newline and that the board should determine when it should be transmitted. The motion was passed by the membership.

Submitted by  
Paul Parker [ N5ZLX ]

Secretary

## Minutes of the Austin Repeater Organization Meeting September 6, 1994

The meeting was called to order by President Phil Steinbach [ WB5SUR ] at 7:30 PM at Luby's North Loop cafeteria. There were approximately 50 people in attendance.

The minutes of the August 2, 1994 meeting were approved.

### Treasurer's Report:

We have \$4744.31 in the bank.

### Engineer's Report:

All equipment was reported to be in working order.

### Announcements:

None:

**Old Business:** The directors decided that Newsline should be transmitted at 7:30 PM on Sunday and Monday nights.

**New Business:** None

Submitted by  
Mickey McInnis [ KB5YAC ]

Newsletter Editor

### Next ARO Meeting

The next ARO meeting will be Tuesday, November 1, 1994 at 7:30 PM at Luby's Cafeteria at North Loop and Burnet Rd.

### Information on ARO's Repeaters

All of ARO's repeaters are open access. Any amateur is invited to use them, except during nets, when a designated net control operator is in charge of repeater usage.

146.88 offset -600 KHz has a phone patch. Use

"\*" to bring up the patch, and "#" when you have completed the call. You can dial "911" (no star needed) for access to local emergency services. "Speed dial" 3 digit access codes are available to ARO members for frequently dialed numbers.

146.94 offset -600 KHz is used for the weather net at the request of the National Weather Service. It is also used for the Swapnet and Newsline at 9PM Sunday.

224.80 offset -1.6 MHz is available.

444.10 offset -5 MHz is available.

ARO maintains a Packet Digital Repeater on 145.01 MHz.

### ARO Monitor

The *ARO Monitor* is edited by Mickey McInnis [ KB5YAC ] ( 339-0344 ). This is only this two page section of this newsletter. Steve Means edits the *AARC/Over*, which is the bulk of this newsletter.

### Events

October 8, 1994 - Ham expo 94 Belton TX. Indoor table or tailgate spaces. Contact Mike LeFan at 817-773-4768.

October 15, 1994 - Packet radio seminar, 9AM-noon at Apple Computers Facility. Contact Mac Cannary at 339-9531 or send a packet msg to KB5VYT@W5SYT

October 22, 1994 - Manchaca Swapfest. Fire Hall, Manchaca, TX. Setup starts at 6:30 AM, General admission at 8:00 AM. NO selling is allowed before 8:00 AM.

### Monthly Events

Austin Repeater Organization, first Tuesday of the month. 7:30 PM Luby's Cafeteria North Loop at Burnet Rd. 10/4, 11/1, 12/6.

The ARO transmitter hunt occurs on the Saturday following the ARO meeting. The hunt frequency is 146.52, with coordination on 146.94. 10/8, 11/5, 12/10.

Ham exams are held on the first Saturday of each month at Murchison Middle School. 10/1, 11/5, 12/3, 1/7/95, 2/4, 3/4, 4/1, 5/6, 6/10\*, 7/1, 8/9. (\* not regular week.)

Ham exams will be held at 2 PM in Fleck hall room 109 at St. Edward's University 3001 South Congress Avenue on the third Saturday of each month. 10/29\*, 11/19, 12/17. (\* not regular week)

### Weekly events

Newsline, an amateur radio news program is transmitted at 9:00 PM Sundays on the 146.94 repeater. The ARO swapnet follows Newsline.

The Travis County ARES (Amateur Radio Emergency Service) net meets every Sunday night at 6:30 PM on the 146.94 repeater and at 8:30 PM on the 146.78 repeater. A packet ARES session is held at 7:30PM on Sunday on 145.78 unconnected. Any amateur interested in emergency communication is invited to join. Message traffic would be appreciated. A face-to-face meeting is held on the fifth Tuesday of months with a fifth Tuesday at 7:30 PM at Luby's Cafeteria on North Loop. 11/29, 1/31/95, 5/30, 8/29

The Williamson county ARES net is held Sundays at 8PM on the 147.08 repeater in Georgetown. Participation by amateurs inside or outside of Williamson county is invited.

## Ham Balloon October 9

The Clear Lake Amateur Radio Club in SE Houston is planning a balloon launch on Oct 9th. It will carry 2m packet, 2m beacon, and 10m DSB beacon (28.322MHz).

de Bob E. Biekert, KA5GLX, CLARC  
For more info, call Dan @ 713-286-0230;  
kj5mx @ ka5kth.#setx.tx.usa.na

## Equipment Review

### Standard C1208DA Mobile Rig

I recently purchased the Standard C1208DA 50 Watt 2-meter mobile.

So far it seems like a nice rig. The main unit is pretty small (5.5 x 1.2 x 5.8 inches), about the size of a Kantronics KPC3 TNC. Great for a compact car.

All controls, LCD, speaker and mike are in a small handset. The audio output is better than an HT but not as good as my Yaesu FT2500M 2-meter mobile. (There is an external speaker option.)

Does pretty good with wide-band receive:  
• 100 MHz to 200 MHz (with Aircraft AM)  
• 250 MHz to 520 MHz  
• also gets 800 MHz (this is not advertised and cellular is blocked)

So far I have not noticed any intermod troubles when using a 1/2-wave whip while mobile.

The 2-meter/70-cm dual-band version of this is the C5718DA.

de Kevin Jessup, N9SQB



## Amateur Radio Emergency Service

## August ARES Face-to-Face Meeting

Twenty-seven members and friends of Travis County Amateur Radio Emergency Service (ARES) attended the August 30 meeting at Luby's.

Rick Herndon, K5FNI, handed out Local Net Certificates and stickers.

Jim Neely, WA5LHS, said he is in process of moving weather net station from local National Weather Service office to a local TV station. He hopes to get a packet link up via TexNet to the NWS in New Braunfels.

Stu Rohre, K5KVH, said that the Red Cross is very short of funds. They had a fundraiser recently at some local malls, but the shortage will delay their building campaign. Therefore, we may need to go ahead and install some new antennas at the Pershing St. building to reach the weather service in New Braunfels and the Red Cross office in Williamson County.

Stu also said that Williamson County's new Sheriff Richards wants to have two-meter base communications in his dispatchers' office and for all his dispatchers to get their code-free Tech licenses. A ham license class should start sometime in September, sponsored by the Williamson County Amateur Radio Club.

Dave Effland, N5RNE, said that the City of Austin had problems recently with their flood network, and considered asking the local hams to go on standby. The threatening weather never developed, so we were never called into action. This brought up the unanswered (so far) question, "How should we be notified when ARES goes on standby alert?" Dave also learned that the City may wish to install weather-monitoring equipment at some hams' houses.

Joe Canfield, N5HPC, reported that Charles Eichenbaum has the RACES cards.

Rick needs more volunteers for Net Control. He also discovered that his tone generator for the pager tones doesn't work right after it has been sitting in a hot car. If a Net Control sends two folks off to another channel to pass traffic during the net, Rick recommends that the NC go ahead and close the net at the usual time, then stick around on frequency until the two folks report that the traffic has been passed.

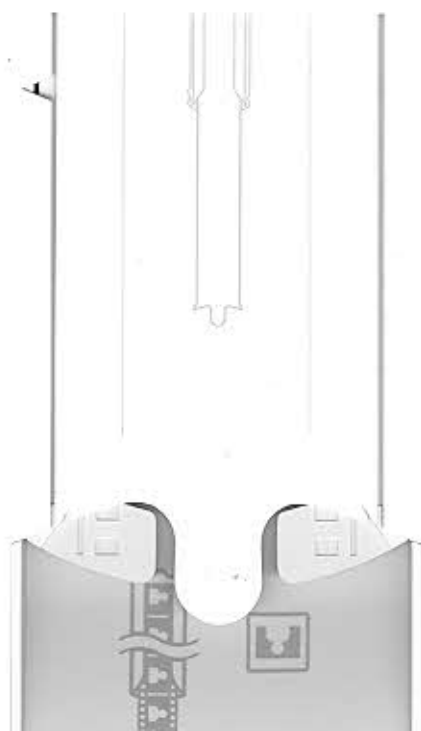
Net Controls should mail or modem the list of check-ins to Mickey McInnis, KB5YAC, and let Rick know the number of check-ins.

Joe Fisher, K5EJL, says that this year's Simulated Emergency Test will occur in September, October or November. We get extra points this year for hams licensed since 1991 and for using battery-powered repeaters. He asks that anyone with ideas for a good exercise to please call him.

Joe also says the City of Austin really wants ARES to have more amateur TV (ATV) capability. There is now a functioning ATV repeater at the Ulrich water treatment plant off Red Bud Trail, with inputs on 902 MHz AM and (soon) 1240 MHz FM, and output on 426.25 MHz. He noted that you can buy a 902 MHz Rabbit TV transmitter plus receiver for about \$60 (Jeff Schmidt, N5MNV, says he has a box of them.), and cable-ready TV's can receive the repeater output on cable channel 58 (especially if you hook them up to a ten- or twelve-element Yagi antenna). The polarization of antennas for the AM frequencies is horizontal; FM is



*continued on next page*



*ARES continued from prev. page*

vertical. According to Joe, the bottom line is that we ARES members need to develop our capability to utilize ATV. To learn more, everyone is invited to the Austin ATV Club, which meets on the Wednesday following the 3rd Tuesday of every month, at Luby's.

Joe says that the ham-radio room on the second floor of the City's new Emergency Operations Center is painted and carpeted. Lady Luck must have gotten involved...there is a line-of-sight path from the EOC to the Ulrich water plant.

Joe encourages ARES members to check in to the Sunday packet sessions, since our served agencies want us to use packet.

Our ARES badges will expire December 31, but Mickey volunteered to prepare some replacements.

Mac Canary, KB5YVT, still has 5 ARES pagers that he would like to hand out. Call him at 339-9531 if you are interested. You will have to pay for the new crystal (\$15.40), and the pager remains the property of ARO. Reminder: If you now have an ARES pager and are planning to leave the Austin area, please call Mac.

Joe Fisher said that the City of Austin has a plan for hams to provide emergency communications. If the City has a communications emergency, radio and TV stations will tell citizens to go to fire stations and EMS stations if they need emergency communications. Hams should do likewise to provide those comms.

The meeting officially adjourned about 8:30 PM, but conversations continued on into the night. The next scheduled face-to-face meeting is November 29. ARES meets on the air every Sunday at 6:30 PM on 146.94 MHz, then at 8:30 PM on 146.78. Newcomers are welcome!

de Miles Abernathy, N5KOB

## South Austin W5YI VE Session Report

The South Austin W5YI team heartily congratulates the following new radio amateurs who earned their licenses and upgrades at its August 20th session:

Glen A. Walther .....	Advanced
Tim W. Barker .....	Technician
Timothy F. Deschner .....	Technician
William C. Dyer .....	Technician
John W. Henley .....	Technician
Scott A. McWaters .....	Technician
Phi A. Nguyen .....	Technician
Andreas T. Rupprecht .....	Technician
Richard M. Tennant .....	Technician
Martin N. Wennerstrom, Jr. ....	Technician
Robert O. Wood .....	Technician

The administering volunteer examiners included:

Bob Basinger, AB5OC  
Hugh Brown, KC5EY  
Lloyd Goehring, Jr., N5HYR  
Jim Greenwood, AB5EK  
Emil Kasprzyk, KC5IZ  
Carol Thiel, N5TLY  
Joe Thiel, N5SMN

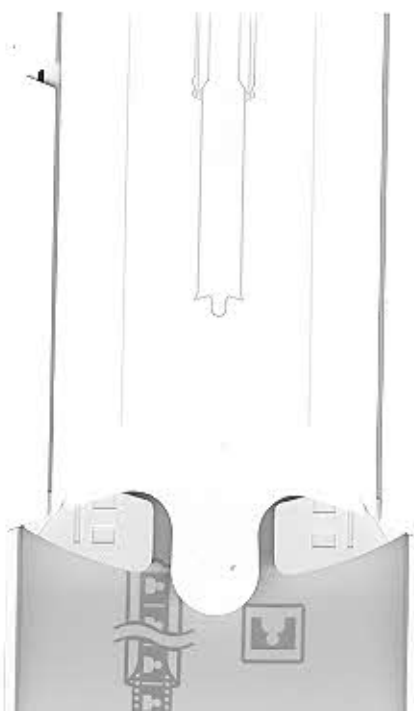


Our next session is scheduled for September 17th at 2 PM in room 109 of Fleck Hall on the campus of St. Edward's University.

Don't forget Manchaca! We won't. Our next exam session during the October 22nd Manchaca Swapfest is set for 9:30 AM in the meeting room above the firehouse.

For more information on either session, call Jim, AB5EK, at 327-6184.

Internet users can access lots of software for the Tandy 100 laptop computer at [ftp.eos.ncsu.edu](http://ftp.eos.ncsu.edu), in /pub/tandy100.



## August AARC Minutes

President Jim Neely, WA5LHS, brought the meeting to order at 7:30 PM on August 9, 1994, at Luby's on North Loop.

VISITORS: Joe Canfield, N5HPC, introduced his wife Carolyn.

MINUTES: Approval of the minutes of the July 12, 1994, meeting was tabled as the AARC/OVER has not been mailed.

OFFICER REPORTS: Dave Marschall, KG5ND, Treasurer, reported that the checking account balance was \$305.94 and the postal account balance was \$365.99. Ed Golla, K3AHS, Technical Committee Chairman, reported that the Club's 146.78 MHz repeater was working well. Steve Sparks, KB5RSY, Activities Manager was absent and Ed Golla reported on Summerfest which was a success. Although attendance was within 100 registrants of last year, table sales were down.

NEW MEMBERS: None.

OLD BUSINESS: None.

NEW BUSINESS: Miles Abernathy, N5KOB, suggested that the PA system be improved. Rick Herndon, K5FNI, reported he had procured a better one at a pawn shop; however, it lacks a crystal.

ANNOUNCEMENTS: Help is needed at the rest area at mile marker 254 on I-35 during the Labor Day weekend. Contact Steve DeLucca, KC5CFQ, at 836-2861.

Mickey Inks, K5IOJ, thanked everyone who worked at Summerfest.

It was moved, seconded, and passed to adjourn. President Neely adjourned the meeting at 7:43 PM.

PROGRAM: Rod Moag, W0NDS, Vice-President, conducted a roundtable discussion of current issues affecting amateur radio. The panel of experts and specialists consisted of Ed Golla, K3AHS, repeaters; Jim Neely, WA5LHS, packet radio; and Stu Rohre, K5KVH, HF operations. The proposal to allow no-code licensees to operate on all amateur radio bands generated the most interest, discussion, attention, controversy and emotion. The intent of such a proposal is to raise the number of US hams to one million or more and thus increase ham radio's political clout in order to protect its spectrum allocations and assure its continued existence.

Respectfully submitted, John Weber, KF5OY, AARC Secretary



## Recycling Surface-Mount IC's

I believe it was in RadCom that I saw a simple method to remove surface mounted integrated circuits. If you can push a thin wire under the IC, fix one end somewhere on the board (solder...) and then pull the wire against the inner side of the IC legs while at the same time applying your soldering iron to each successive leg. As the solder melts you pull the wire, thus loosening the leg from the board.

I have not tried this myself but perhaps it is worth a try if you want to exchange one or more IC's on the board.

de Charlos Potma, PA3CKR



## September AARC Minutes

**President Jim Neely, WA5LHS, brought the meeting to order at 7:30 PM on September 13, 1994, at Luby's on North Loop.**

**VISITORS: Elmont Hollingsworth, N5PAT, introduced himself.**

**MINUTES: The minutes of the July 12, 1994, meeting were approved as printed in the AARC/OVER.**

**OFFICER REPORTS: Dave Marschall, KG5ND, Treasurer, reported that the checking account balance was \$320.99 and the postal account balance was \$292.80. Ed Golla, K3AHS, Technical Committee Chairman, reported that the Club's 146.78 MHz repeater was working well. Steve Sparks, KB5RSY, Activities Manager was absent - he is spending more time in San Antonio**

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...a packet class Oct.  
15 at Apple...

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than Austin- President Neely reminded the Club that the fall swapmeet at Manchaca Fire Hall is October 22, 1994. Frank Edwards, KB5WOA, is accepting volunteers for this event. Frank's landline is 255-6753. President Neely received a brochure for the Vanishing River cruise on Lake Buchanan. This is a two and a half hour cruise and the fare is \$11 per adult if fifteen persons sign up by November 18. President Neely thought this type of activity could be either a replacement for or an addition to the Club's annual banquet. Let Jim Neely know your thoughts on this matter.

**NEW MEMBERS: None.**

**OLD BUSINESS: None.**

**NEW BUSINESS: President Neely reported that the AARC/Over editor had found a real job and was no longer able to edit the AARC/OVER. If you can help the Club as editor of the AARC/OVER, contact Jim Neely as soon as possible.**

**ANNOUNCEMENTS: President Neely received a letter from a ham in Tomball who is trying to revive the defunct Fall swapmeet in Houston. If you can help him organize this let, Jim Neely know.**

**Joe Fisher, K5EJL, ARES EC announced the SET was tentatively scheduled for November.**

**Rick Herndon, K5FNI, has a copy of the Digi-Key catalog**

**David Hogue, WD5FDZ, needs a schematic for an ICOM 02AT.**

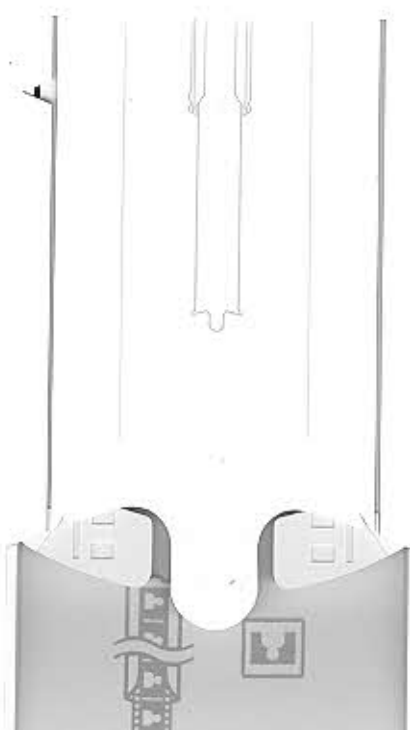
**Mickey McInnis, KB5YAC, announced a packet class October 15 at Apple at US 183 and Cameron Road from 9AM to noon.**

**Jeff Schmidt, N5MNW, announced that a Williamson County class at Georgetown School District offices on Lakeway Drive begins October 1. It will cover Novice and Tech material.**

**It was moved, seconded, and passed to adjourn. President Neely adjourned the meeting at 7:48 PM.**

**PROGRAM: Rod Moag, W0NDS, Vice-President, introduced Herb Valliant from ZLS Corporation. ZLS stands for zero length spring. Herb is an engineer and he discussed gravity meters from 1900 to the present.**

**Respectfully submitted, John Weber, KF5OY, AARC Secretary**



**HUCK'S COUNTRY STORE****Tune Up That Tree...It May Be Your Best Antenna**

Why do we always think of a tree as a ground rod, a bad influence on our antenna, an object that a typical Amateur Radio Operator hates? Trees are nice to have around for many reasons; why don't we tune up that tree and use it for an antenna?

Most of us are aware that a grounded steel tower can be shunt fed and used as a fine antenna. Why not shunt feed that tree? We usually think that an antenna must be supported by some pretty-colored high-dollar insulators to be a success...Not So. For the past ten years I have been questioning people for the details of their antennas. I have found wire fences, rain gutters, downspouts, flashing on roof edges, vent pipes on house tops, windmills, an automobile in the driveway, etc. All of these hams are on the air and making contacts. If these items can be used, and they are, we have an unlimited resource for antenna needs.

My wife and I travel extensively in a motor home that is 24 feet long. I have a home-built 16-foot vertical antenna on the rear roof edge. It lifts off and lays flat on the roof for travel. It works so good that the motor home is my favorite ham shack, even at home. I work bands 40- 10 on both SSB and CW.

For several years we would camp in state and national parks and I would avoid trees. I noticed that being close to a tree would detune the antenna, and even dew and rain changed the tuning. I had to use a little antenna tuner to peak up the antenna. Then I began to notice that I could tune up the system even when green leaves are touching the antenna; it is detuned more if the leaves are near the tip. After a year or so of experience, I no longer avoid trees!

Then I began to wonder if I could operate with the antenna touching green limbs. To my surprise, my ability to make good solid QSO's was no different, tree or no tree.

Now if this tree-touching makes no apparent practical difference (except for a little de-tuning), why not forget this "Bad-Tree" idea and use the tree for our primary antenna?

Yes, I'm extending this idea to a seemingly impossible end. However, we have no good reason to call all trees "ground rods" and blame them for our amateur radio problems. With a little thought we can have coexistence of trees and antennas; and of course they are still a nice support for dipoles and longwires.

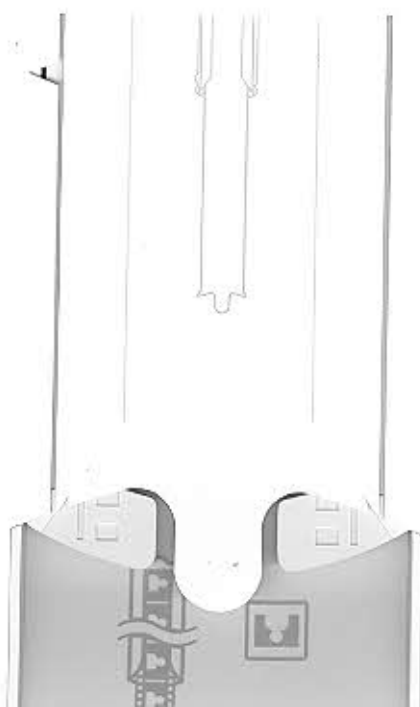
Somehow, I doubt you could drive a nail in a tree and shunt-feed it as an antenna. But on the other hand, don't blame your nice tree-covered yard as a poor amateur radio operating location.

de "Old Huck" AASBU

**Coax Matching Xformers**

Cable TV companies use (literally) miles of 3/4" hard line, and throw away any leftover "short" pieces (say, under 200 ft.). Paul Darwactor, W8ZD, sells matching 75-to-50 ohm matching transformers at reasonable prices. They are about 18" long and include an N connector. He can be reached at 419-424-8765.

de Brent Lamb, K5VXV, and Miles, N5KOB



**AARC Information**

Austin Amateur Radio Club, Inc.

**Officers**

Jim Neely, WA5LHS, President.....442-4812  
 Rod Moag, W0NDS, Vice Pres. ....467-6825  
 Dave Marschall, KG5ND, Treasurer .834-1779  
 John Weber, KF5OY, Secretary .....280-1082  
 Frank Edwards, KB5WOA, Activity Mgr ..451-4318

**Committees & Positions**

Ed Golla, K3AHS, Technical .....255-4818  
 Joe Fisher, K5EJL, ARES Coord. ....926-4689  
 <vacant>, AARC/Over Editor.....  
 Hal Henegar, W5MDL, P.L.O. ....836-2012

If you are able to help with a vacant position, please contact any club officer.

The Austin Amateur Radio Club, Inc., maintains a repeater with open autopatch and emergency power on 146.78 MHz, and an emergency HF / VHF station at the American Red Cross Building. Membership dues are \$6 per calendar year (\$10 for a family). Please contact an officer if you would like to join the club.

**AARC/Over Information**

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Viewpoints expressed in *The AARC/Over* do not necessarily reflect those of any club or its members, directors, or officers.

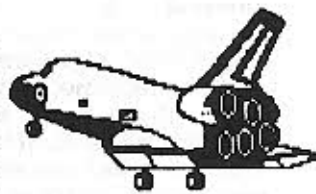
Members are encouraged to submit material for publication...mail to the temporary editor at 3216 Park Hills Drive, Austin 78746, or e-mail to miles@mail.utexas.edu (Internet). Submissions may be edited for format, style and suitability. Deadline for the next issue is the 14th of this month. Late material will be saved for later months. Permission granted to reprint *AARC/Over* articles provided that you credit the author and *The AARC/Over*.

**SAREX School Contact**

Sal, N9NJF had the pleasure of making a scheduled SAREX (Shuttle Amateur Radio Experiment) contact with Dick, KB5SIW during mission STS-64 on 11-Sep-94 at 23:48 to 23:56 UTC from the Crystal Lake South Elementary School, Crystal Lake, Illinois. Six children were chosen to ask questions, and each got to ask 2 questions.

The ground station equipment used to make the contact included a Yaesu FT-736R with Mirage 150 W amp into a KLM-14CX antenna with Landwher preamp mounted on the antenna. A backup configuration consisted of a Motorola SPEC-TRA, 110 W out to a 5/8 wave vertical antenna at 30 feet.

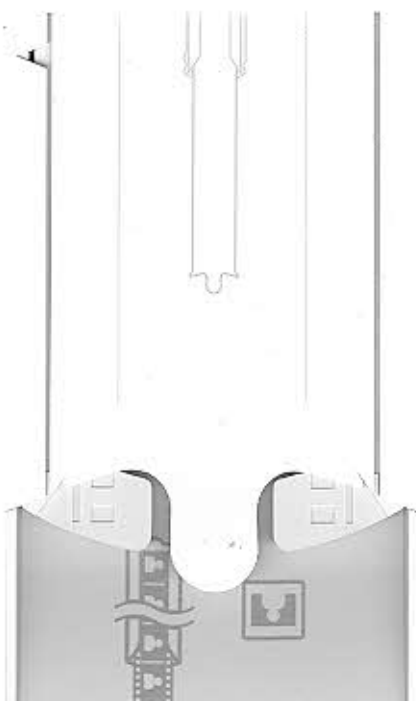
The antenna was computer controlled with INSTANTTRACK and KC TRACKER. Doppler compensation was accomplished by programming a number of memories in the FT-736 with the appropriate doppler corrected transmit and receive frequencies and switching these memories each minute of the pass. Ed is currently working on some software to perform doppler compensation "automagically" for the FT-736 transceiver.



Ed found that LHCP was superior to RHCP for most of the pass. Some times the difference in received signal strength was as much as 4 S-units, even though the antenna in the Shuttle is linearly polarized.

Ed also reports the SAREX contact was a great experience and it was truly rewarding to see the school kids bouncing off the walls when the contact was over. They were really excited!

de Ed Picha, N9EP, via SpaceNews



**Get Over It!**

I find it fascinating that the "code vs. no-code" argument is still in full bloom! Get over it! You have a fine amateur radio service which affords you a HUGE chunk of spectrum without a Morse code proficiency requirement.



If you want to work HF bands, you study some theory, some regs, some manual Morse, and away you go. If you can't learn CW, I mean if you have a handicap, the regulations allow for this. Get a waiver. Otherwise learn the code.

Many of the hams who grabbed the No-Code end of incentive licensing are now offended that they may have to learn code [to gain HF privileges]. Well, that is the way it is.

de Peter Brunelli, N1QDQ

**Back From the Dead**

After a three month period, the file server on the LUSAT-OSCAR-19 satellite is back in operation. The file server had been out of service since the spacecraft's on-board computer crashed last May for unknown reasons while it was over the South Atlantic Anomaly.

An LUSAT command station completed the OBC software reload on Sunday 11-Sep-94 and brought the file server back on line.

de Gustavo, LW2DTZ of AMSAT LU, via SpaceNews



Left: Rare photo of the South Atlantic Anomaly.

October

- 1 WSYI Exams, Murchison, 335-4327
- 4 ARO Meeting @ Luby's
- 8 Ham Expo 94 @ Belton
- 8 Hidden Transmitter hunt, 146.52
- 9 Houston Ham Balloon (see p. 4)
- 11 AARC Meeting @ Luby's
- 15 Packet seminar @ Apple
- 19 AATVC Meeting @ Luby's
- 22 Manchaca Swapfest & Exams
- 29 WSYI Exams, St. Ed's, 327-6184

November

- 1 ARO Meeting @ Luby's
- 5 ARRL Exams, Murchison, 832-0450
- 5 Hidden Transmitter hunt, 146.52
- 8 AARC Meeting @ Luby's
- 16 AATVC Meeting @ Luby's
- 19 WSYI Exams, St. Ed's, 327-6184
- 29 ARES Meeting @ Luby's

December

- 3 WSYI Exams, Murchison, 335-4327
- 6 ARO Meeting @ Luby's
- 13 AARC Meeting @ Luby's
- 17 WSYI Exams, St. Ed's, 327-6184
- 21 AATVC Meeting @ Luby's
- 31 Straight Key Night



1995

- 1/7 ARRL Exams, Murchison, 832-0450
- 2/4 WSYI Exams, Murchison, 335-4327
- 3/4 ARRL Exams, Murchison, 832-0450
- 4/1 WSYI Exams, Murchison, 335-4327
- 5/6 ARRL Exams, Murchison, 832-0450
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- 7/1 ARRL Exams, Murchison, 832-0450
- 9/9 ARRL Exams, Murchison, 832-0450

