AARC OVER

Bulletin of Austin Amateur Radio Clubs

Austin Amateur Radio Club
Austin Amateur Television Club
Austin Repeater Organization

ISSN 1067-0262

February 1995

Club Meetings

Austin Repeater Organization
Tuesday, 7, 1995
Joe Cecil [W5RIQ] will give a talk on electron tubes.

Austin Amateur Radio Club
Tuesday, January 14, 1995
John Warren [NT5C] will give a talk on "So you want to be a DX'er" This talk is intended to be of interest to all, not just DX experts.

Austin Amateur TV Club
Tuesday, January 21, 1995
NOTE: Meeting changed to Tuesday

All these organizations meet at Luby's Cafeteria on North Loop, about a block West of Burnet Rd. We meet in the back room, about as far from the cash register as we can get. Visitors are welcome, whether licensed hams or not.

Hidden Antenna Ideas

Here are some hidden antenna ideas from Wayne Sarosi.

In the attic we can put up the following:

Dipoles - wire, multiband, or foil types; Discones - only limited by the height of the attic; Groundplanes - for VHF and UHF; Yagi - Small yagis for VHF and UHF; Quads - VHF and up, Rhombic - UHF and up; Conical monopoles - VHF and up

Roof trim can be used in a horizontal loop, with a tuner it's outstanding and invisible.

House sewer vent antennas are available in commercial or homebrew models. These can be VHF or UHF colinears and dipoles hidden in extended vent pipes made of PVC.

Trellises, the old plant holder for vines and iveys can hide 6m and up loops or dipoles to the size of the trellis.

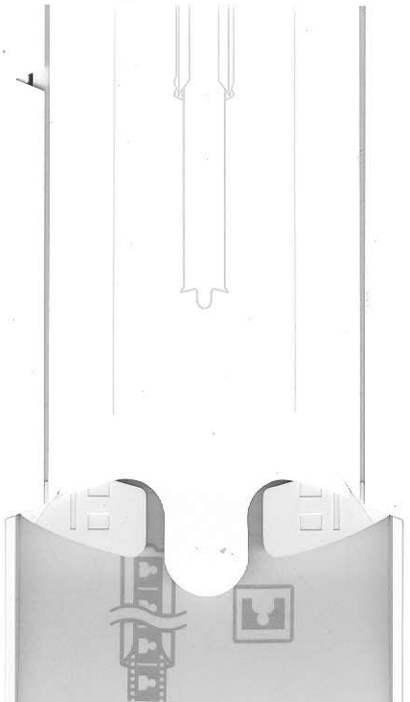
Flagpoles can hide HF trap Vertical VHF and UHF colinears or HF Monoband groundplanes.

A birdfeeder can hide a folding (not a folded) wire dipole or cage dipole.

A porch can make an excellent groundplane. The aluminum porch roof is ideal for a 10m groundplane using a pull up radiator. Wooden porches can be fitted with a matching groundplane.

I also like the idea someone suggested at one of the club meetings. Neighborhood associations often have very hard times getting people to serve as officers. Volunteer. It's probably much easier to get your antenna approved or ignored by the neighborhood association if you are the neighborhood association.

de Mickey McInnis KB5YAC



January Austin Repeater Organization Meeting

The meeting was called to order by President Phil Steinbach [WB5SUR] at 7:30 PM, January 3, 1995 at Luby's' North Loop cafeteria. 73 people and 3 small children were present.

One new member, one new ham, and one visitor were introduced. The minutes of the December meeting were approved.

Treasurer's Report

Balance as of 1/3/95 is 4,297.04.

Technical Report

No unsatisfactory equipment performance was reported.

Old Business

None

New Business

The following motion was made and seconded:

We propose the ARO fund the building and maintenance of the Austin High-speed amateur radio IP packet network infrastructure as described. The officers & board of directors are authorized to approve the expenditure of funds required to implement this plan, expected to be approximately $2500.00.

A motion to table the above motion failed. The original motion passed.

A motion was made that ARO not collect the extra $1.00 in dues for 3 digit telephone autopatch. Those who have already paid $1.00 for 1995 may request a refund from the treasurer.

Announcements

New Technician classes starts January 14, 1995.

AARC/Over editor Mickey McInnis [KB5YAC] that he be informed of all announcments and ham news.

The meeting adjourned at 8:07 PM

Respectfully Submitted
Warren Anderson [N5XUG]

Secretary

January Austin Amateur Radio Club Meeting

President Stuart Rohre, [K5KVH], brought the meeting to order on January 10, 1995 at exactly 7:30 PM. The meeting was held at the Luby's cafeteria on North Loop.

Visitors

The following guests were introduced. [WD5AEC] and his wife Judy, [WD5EIO]; Manuel Garcia, interested in Ham Radio; and Kieth [KB5QLE].

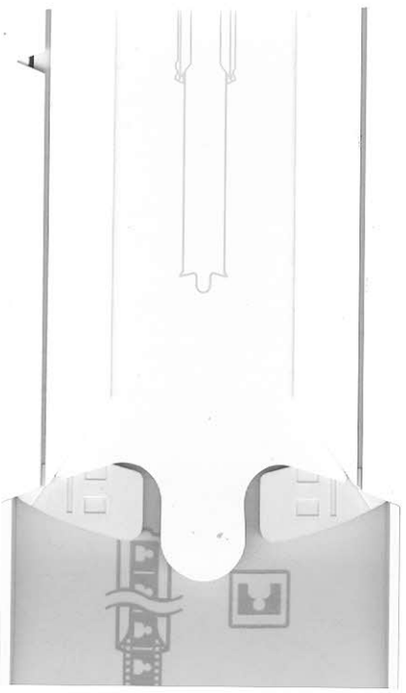
Minutes

The minutes of the December 13, 1994 meeting were approved as printed in the AARC/OVER.

Officer Reports

Treasurer John Weber [KF5OY] reported the checking account balance of $ 357.56, and a postal account of $ 23.38. The postal account will be rejuvenated a little within the next few days. Technical Committee Chairman Ed Golla [K3AHS] had been out of town until recently, and had not heard any reports of problems with the -146.78 repeater. Activities Manager Frank Edwards [KB5WOA] reported that Manchaca Swapfest is scheduled for April Fool's Day (April 1, 1995). Anyone with suggestions for Manchaca should contact Frank.

New Members



Family membership: Charles Delemater, [WA5ITN]; Lillie Delemater [WA5ITO]; Cathy Delemater [KC5DSS]

General membership: Elmont Hollingsworth, [N5PAT]; Robert B. Morgan [WB5AOH]

Welcome to the Club!

Old Business

None.

New Business

Pete [K5GM] raised the question of whether renewal forms for Club membership had been sent out or not. President Rohre explained that if you did not receive a form in the mail, you could pick one up at the meeting from Treasurer Weber.

President Rohre brought to the club's attention that as of yet we do not have an official Vice President however, we do have a volunteer for the post. David Sprague [KB5ZEG] was not present because he and his family were under the weather, but had confirmed his status as a volunteer via e-mail. There was a motion to elect him as Vice President, the motion was seconded, and David Sprague [KB5ZEG] was overwhelmingly voted in. Congratulations David!

Announcements

President Rohre announced that the 1995 Budget will be dealt with during the February meeting.

President Rohre also announced that William, [KB5WN] passed away on November 29, 1994. He is survived by his wife, step-father, step-grandson, sisters, brother, nieces, and nephews. Services were held December 1, 1994. He will be missed.

A new ham was recognized; Susan [KC5LGM] Congratulations!

Mickey [KB5YAC] announced that there will be a February exam session at Murchison Middle School at its regularly scheduled time. Also, Mickey said that Sunday nights at 7:30 there is an ARES packet net on 145.78 unconnected.

Jeff [N5MNW] has upcoming classes for prospective new hams starting at Murchison Middle School on Saturday, January 14, 1995. Classes begin at 8:30 and last until 11:30. He gave a phone number to register (Anna, at 346-8930). Cost of the class is three dollars, and you need to buy the book: "Now You're Talking". He will have a supply of the books to be purchased at the class site.

The San Antonio swapfest is this weekend at 8:00 AM on January 14, 1995. It is located at a bingo hall near the intersection of W. Commerce and General McMullen.

Hal [W5MDL] announced the third Saturday QCWA meeting at the Luby's on North Loop at 11:30 AM.

Williamson County swapfest will be held on Sunday, February 5, 1995 at 12:00 noon. The location is the Georgetown Community Center, and due to City ordinance, tailgating will not be permitted.

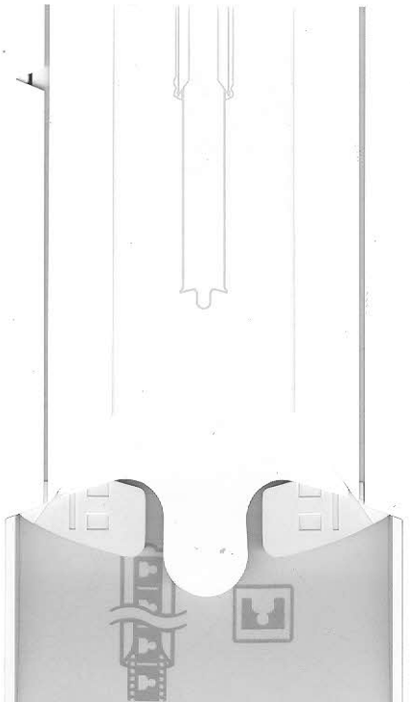
John [NT5C] will be presenting next month's (February) meeting program entitled: "So you want to be a DX'er?!". It will be primarily focused on those of us who are new hams or, have not yet delved into the wonderful world of HF.

Program

President Stuart Rohre [K5KVH] introduced Brad [KV5V] of Georgetown. His topic was RFI problems in vehicles to and from computers and various other wiring, and how to solve all of those problems.

Submitted with pleasure,

Gene Van Zelfden [KB5UGO]
AARC Secretary



Digital Packet Repeater Project

by Keith Watson - WB9KHL

I would like to thank everyone who attended the January ARO meeting. Your support and concerns about the Digital Packet Repeater project were noted, and that is why I am writing this article. It is important that we consider all sides of any project to make sure we spend the club's money in a prudent manor and not make foolish mistakes because we did not look at all sides of the issue. It was made clear to me that there were valid concerns that needed to be addressed. Therefore, I will endeavor to explain the project and how we propose to invest the club's money in the future of Amateur digital packet communications.

The basic idea of this project was to increase the usefulness of packet radio in the Austin area. After discussing the many pitfalls we have encountered, we looked for ways to eliminate these obstacles and feel we came up with the best technical solution at the lowest cost to the end user. However, to reduce the cost of the system to the individual users, it requires someone to build (and pay for) the infrastructure to support this system.

So what are these pitfalls and how do we eliminate them? Good questions. The three top pitfalls would have to be the following: slow speed, slow mail handling, and the hidden transmitter syndrome which makes the slow speed even slower. Lets look at each of these issues individually.

Slow Speed - This almost doesn't need to be explained. Anyone who has used packet at 1200 baud KNOWS how slow and frustrating this can be.

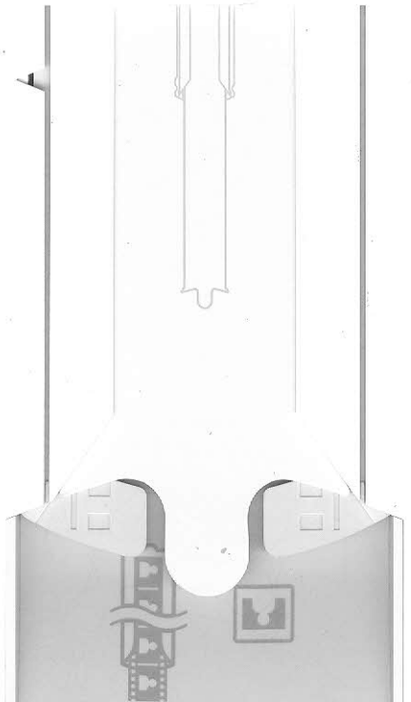
Slow Mail Handling - With traditional full service packet BBS's, mail has to be relayed from one BBS system to another until it reaches its destination. This can take days if not weeks to make this trip. Some times the message never makes it for one reason or another.

Hidden Transmitter Syndrome - If you have ever tried to make packet connection using a HT and a rubber duck antenna, you know all too well what this is all about. For those of you that have not tried this or are unfamiliar with packet, this is when two or more packet stations want to use the frequency at the same time, but one can not hear that the other is already transmitting, and the other station starts to transmit on top of the first. This can be caused by differences in antennas, power levels, geographic location, as well as any number of other reasons. A perfect packet environment would be where everyone can hear everyone else.

So, what can be done to overcome these problems. That is what this project is all about. The slow speed has an obvious solution - go faster! With the advent of more and more commercially available 9600 baud and faster modems this is becoming much less of an obstacle. However, we want to make sure we get the biggest bang for our buck. That is why we are looking at 19,200 baud as well as 9600 baud. At this time, the speed has not been decided on and will require more testing to determine if it is worth the added effort and expense for the performance gain.

As far as mail is concerned, there is a better way, and it is called an internet gateway. Mail sent via an internet gateway can be transmitted via the internet to its destination in a matter of seconds. There is also the possibility that mail could be lost by this method also, but that is true of any method including the US Mail. However, it is much less likely to happen since the mail does not have to handled as many times.

The last obstacle to overcome is the hidden transmitter syndrome This can be very effectively eliminated by installing a full duplex digital repeater. This repeater would act like and give all the advantages of a voice repeater, but the only difference is it only passes digital data. As a matter of fact, a standard voice radio will not even bring up the repeater. Once the repeater is in place, all a packet user has to do is make sure he can hear and be heard by the repeater. At that point everyone who can



talk to the repeater can talk to this user. No more hidden transmitters. The repeater offers the advantages of allowing users to use less power and limited antennas in the same way that handy talkies are use with voice repeaters.

So far I have talked about why we should do this. Now let's talk about how we can make this happen in the Austin area. The project will be implemented in three basic phases - setup of the internet gateway, build and setup the digital repeater, and the setup of the router. Let me explain what each of these steps consist of and what they do.

The first phase of this project it to setup a reliable connection to the internet. The connection to the internet is needed to allow sending and receiving of mail around the world. The internet acts as the infrastructure to interconnect all the Amateur gateways that give us the ability to send mail as well as keyboard to keyboard chats anywhere there is another gateway. It is as easy to make this connection with someone in Dallas as it is for connecting to Berlin, Germany. All that is needed is a gateway here in Austin and one at the desired destination.

The gateway will consist of a radio, power supply, TNC, antenna, and computer. This is the typical setup for operating packet operating at 1200 baud at first. This will be upgraded to the high speed modem when phase two and three are implemented. When it is upgraded to the high speed modem, the 1200 baud components will be used in phase three.

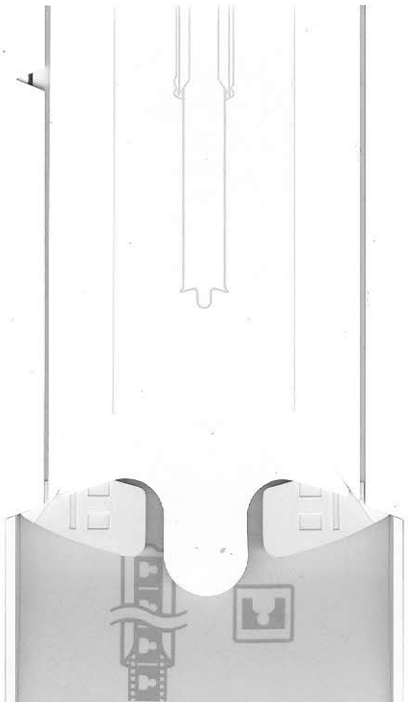
However, in addition to this, the system has to have 24 hour access to the internet. Therefore, it limits our choices of locations. Most of us don't have this type of internet access in our shacks, but this does not look like it will be a problem. To date we have had three or four companies, which have this type of internet access, offer to host this connection at no cost to the club. The time to implement this phase should only be a few weeks.

Phase two will consist of building the digital repeater and putting it on the air and should be completed at about the same time as phase three is completed. The components to build a digital repeater include a transmitter, receiver, TNC with bit regeneration option, power supply, duplexers, and an antenna. In many ways, digital repeaters are easier to build and should not be a major problem, and we have talked with several experts on building repeaters and have gained their support to help us in building this one. This will take a bit longer, but we don't expect this to take longer than two to four months to complete depending on available time.

Phase three is probably the hardest to explain but the easiest to implement. This will be the router that allows the existing 1200 baud packet users to gain access to the gateway as well as the users on the new high speed digital repeater.

Once the repeater is installed and functioning, we will convert the gateway to a high speed modem and UHF radio. This will free up the 1200 baud 2 meter system to be used on the gateway. The gateway will consist of both the 1200 baud 2 meter and high speed UHF systems so they can be connected to the same computer system which can intelligently route the packet information between the two different speed packet networks. In this way a user who is running 1200 baud can still send and receive mail via the gateway which is now on the high speed repeater system. As far as hardware requirements go, the router will need a computer, high speed modem, UHF radio, UHF antenna, and the 1200 baud equipment which was removed from the gateway when it was upgraded to high speed. I told you this was hard to explain.

Well there you have it. Now you know what the Austin High-Speed Amateur Radio IP Packet Network is all about and how we propose to make it a reality. I am sure there are areas of this system that many will not understand the first time through because I did not understand it totally at first, but feel free to ask me if you do have any questions. I may not know all the answers, but I am not afraid to point you in the right direction. In addition to that, we will be leaning on the membership and anyone else who is interested in this



project for hardware donations. In order to make this project a reality and stay within our budget, we will have to rely on donations. So far, we have been doing very well in this department, but the more we can get donated, the less club money we will need to spend.

In the following months, Dick Kriss, KD5VU, will be answering questions about this confusing topic, so if you have specific questions, or you are just a bit confused, drop him a note at the following addresses.

kd5vu@kd5vu (IP packet only)
kd5vu@moontower.com (internet)
kd5vu@w5syt.#AUS.TX.USA.NA KD5VU on the NDALLAS PMS (TexNet) or

Dick Kriss - KD5VU
904 Dartmoor Cove
Austin, TX 78746
(512) 327-9566

Article by
Keith Watson - WB9KHL 288-9709 Home
908-8220 Work

Jerks on the Air

We've had problems with unidentified operators, people using false calsigns, jammers, obscenities, etc. on the air.

I'll refer to these people as "jerks" in this article rather than worry about the distinction between "jerk, lid, bootlegger, *@#*!", or whatever other terms might apply.

We have discussed this at some of the meetings and I'd like to summarize some of the advice of the experts, repeater trustees, my personal experience, etc.

The people who do this are often just looking for attention. Arguing with them only encourages them.

Don't get in protracted arguments with them.

Don't threaten them with FCC fines, etc.

Don't get in discussions with other legitimate hams about the jerk when he might be listening. Especially, don't say on the air that the FCC doesn't do anything to catch bootleggers. I've actually heard people say this on the air minutes after a bootlegger has been heard on a repeater.

Don't threaten them with violence. Remember, they are the nutcase, you are the "good guy". I've heard people make threats over the air to jerks. It reflects badly on the "legitimate" hams and didn't discourage the jerk.

Don't talk about doing a transmitter hunt. Especially, don't talk about a hunt if you are hunting them. You could frighten them off the air. If someone is doing a hunt you could ruin the hunt. You could also make the jerk start using techniques to avoid detection.

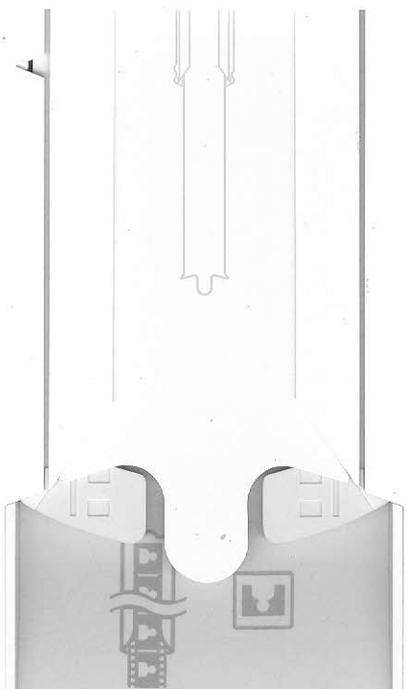
Don't assume that moving to a different frequency will keep the jerk from hearing your conversation. Some of these people are actually licensed hams or others with considerable equipment and knowledge of radio.

Do contact the repeater trustee if a problem occurs that requires immediate attention such as shutting down the phone patch. The repeater trustees or club officials can also be helpful to coordinate efforts to catch jerks.

Keeping notes can be helpful if you have a repeat offender or a serious offender. Tape recordings can also be helpful. Signal strengths, directional bearings, partial results from transmitter hunts, etc. can be very helpful to later efforts.

As much as practical, refuse to give the jerk any indication at all that you notice his existence. In the incidents I've heard, they've gone away much faster if ignored. When people have argued with the person or threatened them, the disturbance has continued for longer periods of time. If the jerk doesn't get the satisfaction of knowing he's annoying someone, he usually loses interest quickly.

(Continued on Page 10)



Bastrop County Amateur Radio Club's

1995 Swapfest

Saturday, February 18th
American Legion Hall, Bastrop

Junction of Hwy 21E and Loop 150E
at Entrance to Bastrop State Park

All Spaces are 1st Come- 1st Choice

Tables: indoors-$5: Outside - $4; Tailgate $3
Doors open to Dealers at 7 AM; Public - 8 AM

Plenty of Parking - Food & Drinks until Noon
W5YI Exams at Noon

Talk-In: 145.350 or 443.750

For Information Prior to Swapfest, contact:

N5JWP - Charlie (512) 360-3670
W5QXH - John (512) 303-1074
(Both are Austin Metro-area Phone #'s)

RV Hookups at Bastrop State Park: for reservations call (512) 389-8900 (State Reservation Central)

Grand Prize: Alinco DJ-580T Dual Band Handheld

Williamson Co. Amateur Radio Club's

1995 Swapfest

Sunday, February 5th

Community Center
San Gabriel Park

Georgetown, TX

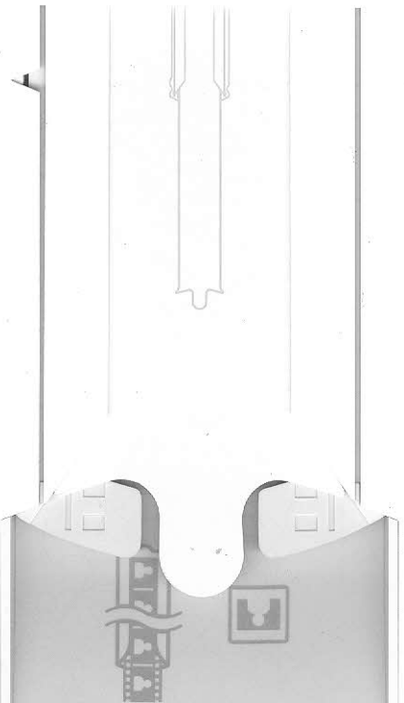
Tables $5 or $7 w/electricity
Open to the public: 12:00 Noon

FREE Admission
NO Tailgating

Talk-in Assistance
North: 145.13
South: 147.08

Lunch/Snack Concession Available

Exit 262 from I-35. East to traffic light. Left for 2 blocks, right on Stadium Dr. Left at stop sign. Community center on left past show barn.



Huck's Country Store

The Big Bus for Amateur Radio

Omnibus: A wheel vehicle suitable for all people. What a fitting name for Amateur Radio! Yes, there is a place for everyone in the ranks of ham radio activity.

Let's think of some of the accommodations on our omnibus: We have SSB, CW, SSTV, FAX, RTTY and other modes. Each of these modes has sub-divisions of specialized operation. Then we have HF, VHF, UHF and beyond into the unexplored. Truly, the vastness of our activity brings divisions between us...we just can't experience it all in one lifetime!

We have computers driving our radio gear with technology that was unknown 10 - 20 years ago. Another advantage is our permission to develop new technology within our frequency allocations.

How can we neglect such a great opportunity? With the economic conditions of this nation we can, and will, be the technological leaders for generations to come! Our omnibus has a place for everyone: If you are not on the bus, you are missing the greatest ride of all time!

Let us lead this generation, and those to come, to expand our knowledge, skills and dexterity via the omnibus of Amateur Radio. The opportunity is too great for us to fail to grasp. Let's pool our resources and exploit our resources.

de AA5BU, "Old Huck"

J. M. "Huck" Huckabee is an accredited License Examiner with both the ARRL and W5YI, and he is active with both exam groups in Austin. He has been on the air since before World War II, holding calls W5KCI, D4AER, A5KCI, W4PPY, KF5ZR and now AA5BU. Huck is 71 years old and operates mostly 40-meter CW "in the fast lane

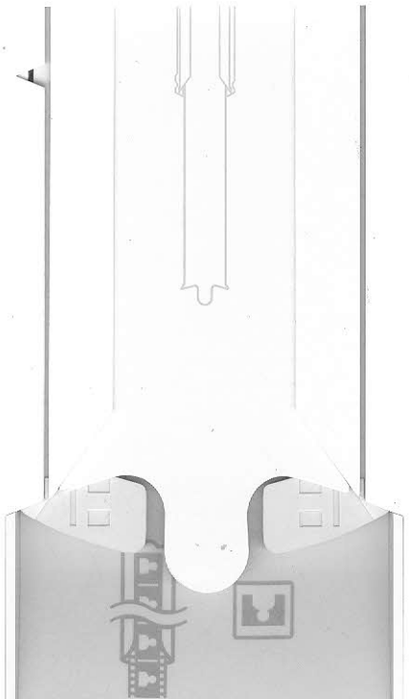
AARC/Over Contributions Needed

The AARC/Over needs your articles and information. This month's issue seems a little sparse to me. Please send your contributions or information to Mickey McInnis at 1519 Charolais Drive, 78758, or e-mail to mcinnis@austin.ibm.com (Internet), 339-0344

We can particularly use information on calendar events that would be of interest to local hams.

Thanks to those who submitted information for this and past issues.

de Mickey McInnis KB5YAC



Club Information

Austin Amateur Radio Club, Inc. P.O. Box 13473, Austin, TX 78711-3473

Officers

President	Stu Rohre	K5KVH	255-3932
Vice President	David Sprague	KB5ZEG	259-7282
Treasurer	John Weber	KF5OY	280-1082
Secretary	Gene Van Zelfden	KB5UGO	346-8727
Activity Manager	Frank Edwards	KB5WOA	45 -4318

Committees & Positions

Technical	Ed Golla	K3AHS	255-4818
ARES Coordinator	Joe Fisher	K5EJL	926-4689
Public Information Officer	Hal Henegar	W5MDL	836-2012

Austin Repeater Organization P.O. Box 4763, Austin, TX 78765

Officers

President	Phil Steinbach	WB5SUR	258-3215
Vice President	Jeff Schmidt	N5MNW	255-6753
Secretary	Warren Anderson	N5XUG	346-0186
Treasurer	Bill Montgomery	AB5HP	478-7928

Please contact a club officer or attend a meeting to join either Organization

AARC/Over Information

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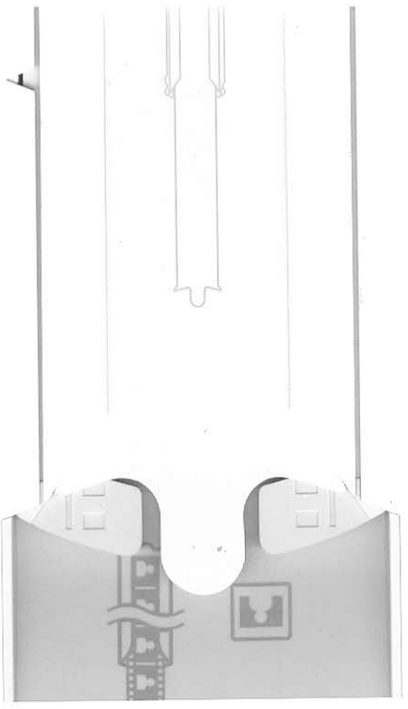
Viewpoints expressed in The AARC/Over do not necessarily reflect those of any club or its members, directors, or officers.

Members and other readers are encouraged to submit material for publication. Mail to Mickey McInnis at 1519 Charolais Drive, 78758, or e-mail to mcinnis@austin.ibm.com (Internet), 339-0344. Submissions may be edited for format, style and suitability. Deadline for the next issue is the Thursday following the AARC meeting. Material may be saved for later months. Permission granted to reprint AARC/Over articles provided that you credit the author and the AARC/Over.



The Austin Amateur Radio Club, Inc. Membership dues are $8 per calendar year ($10 for a family). Joint ARO/AARC dues are $15 per year.

AARC 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.

The Austin Repeater Organization dues are $8 per calendar year. Joint ARO/AARC dues are $15 per year. Family membership is $10 per year.

ARO maintains the following repeaters.

146.88 MHz offset -600 KHz has a phone patch.

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

244.80 MHz -600 KHz

444.10 MHz -5 MHz

145.01 MHz is the packet digital repeater.

Autopatch Use

The 146.78 and 146.88 repeaters have open autopatches. Press "*" and dial the phone number to place a call. Do not unkey after the "*". When finished, press "#" to hang up the phone. Dial "911" (no "*" needed) for emergency services. Please transmit your callsign **before** using the phone patch.

South Austin W5YI VE Session Report

Ho. ho, ho, The Grinch won't steal this Christmas! With a little luck and the FCC's new electronics filing system, the following people may start the new year with new or upgraded amateur radio licenses which they earned at the December 17th South Austin W5YI VE team session:

Jeffery L. Brown	-new-	Tech Plus
Jason P. Sparks	KC5IQI	Tech Plus
Stephen G. Grupinsi	-new-	Technician
Arnold M. Reyna	-new-	Technician
William A. Hein	-new-	Technician
Kerry L. Poggemiller	-new-	Technician

One other applicant passed an examination element without upgrading.

The administering elVEs were:

Hugh Brown	KC5EIY
Lloyd Goerhring, Jr.	N5HYR
Jim Greenwood	AB5EK
Emil Kasprzyk	KC5IZ
Steve L. Sparks	AB5SV
Scott McCreight	AB5KS
Carol Thiel	N5TLY
Joe Thiel	N5SMN

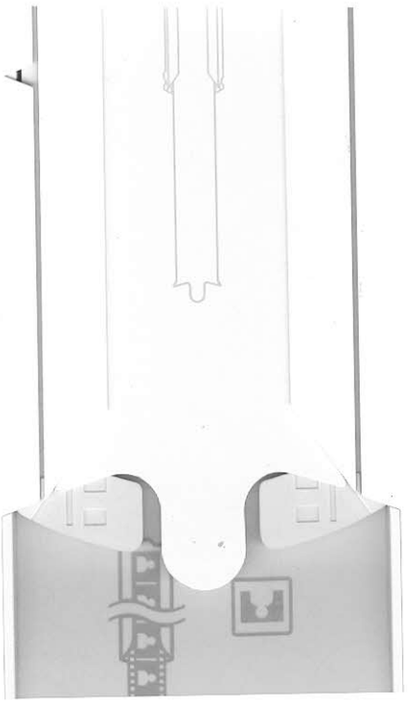
Our third year of service to the amateur radio community will begin with our next session on January 21 at 2:00 PM in room 109 of Fleck Hall on the campus of St. Edward's University. The next session after that will be on February 18. The testing fee for all VE sessions will be $5.90 in 1995.

Jerks on the air (continued)

If you do go transmitter hunting and find a jerk, be very careful what you do when you find him. The person involved has already shown himself to be a kook. He could be a violent kook, too.

I would also suggest that you all be careful about accusing someone of being a bootlegger or correcting bad practices. One of my first experiences as a ham was when I was trying to check out an antenna on the 146.78 repeater's signal strength meter. I keyed up and identified myself and then dialed the access code. Some pompous O.F. keyed up and told me in a gruff tone to ID before using the repeater. I apparently had dropped out of the repeater while ID'ing. Needless to say, this did not make a favorable impression on a new ham.

de Mickey McInnis KB5YAC



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New Business

The following motion was made and seconded:

We propose the ARO fund the building and maintenance of the Austin High-speed amateur radio IP packet network infrastructure as described. The officers & board of directors are authorized to approve the expenditure of funds required to implement this plan, expected to be approximately $2500.00.

A motion to table the above motion failed. The original motion passed.

A motion was made that ARO not collect the extra $1.00 in dues for 3 digit telephone autopatch. Those who have already paid $1.00 for 1995 may request a refund from the treasurer.

Announcements

New Technician classes starts January 14, 1995.

AARC/Over editor Mickey McInnis [KB5YAC] that he be informed of all announcments and ham news.

The meeting adjourned at 8:07 PM

Respectfully Submitted
Warren Anderson [N5XUG]

Secretary

January Austin Amateur Radio Club Meeting

President Stuart Rohre, [K5KVH], brought the meeting to order on January 10, 1995 at exactly 7:30 PM. The meeting was held at the Luby's cafeteria on North Loop.

Visitors

The following guests were introduced. [WD5AEC] and his wife Judy, [WD5EIO]; Manuel Garcia, interested in Ham Radio; and Kieth [KB5QLE].

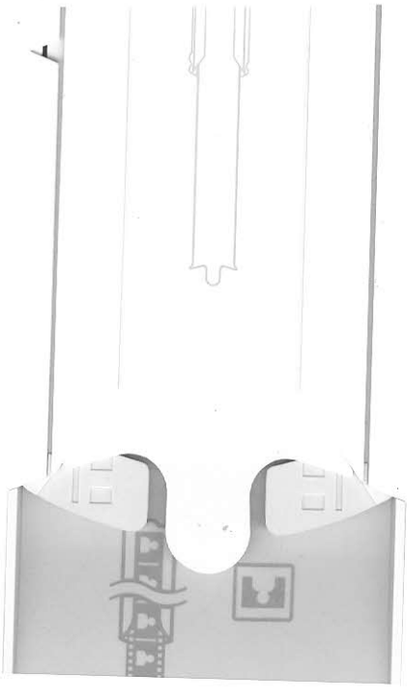
Minutes

The minutes of the December 13, 1994 meeting were approved as printed in the AARC/OVER.

Officer Reports

Treasurer John Weber [KF5OY] reported the checking account balance of $ 357.56, and a postal account of $ 23.38. The postal account will be rejuvenated a little within the next few days. Technical Committee Chairman Ed Golla [K3AHS] had been out of town until recently, and had not heard any reports of problems with the -146.78 repeater. Activities Manager Frank Edwards [KB5WOA] reported that Manchaca Swapfest is scheduled for April Fool's Day (April 1, 1995). Anyone with suggestions for Manchaca should contact Frank.

New Members



Calendar

February
4 Ham Exams, Murchison
5 Georgetown Swapfest @ Noon
7 ARO Meeting @ Luby's
14 AARC Meeting @ Luby's
18 Bastrop Swapfest 8 AM
18 QCWA meeting @ Luby's
18 Ham Exams, St. Ed's 327-6184
21 AATVC Meeting @ Luby's

March
4 Weather spotter classes
18 Midland Swapfest

April
1 Manchaca swapfest
28-30 Dayton Hamvention

May
6 Golden Spread Hamfest Amarillo

June
9-11 Dallas Hamcom

August
4-6 Austin Summerfest

Periodic Events

Sun	6:30 PM, ARES,	146.94 MHz
Sun	7:30 PM, ARES Packet,	145.78 MHz
Sun	8:00 PM , Williamson Co ARES net	146.65 MHz
Sun	8:30 PM, ARES,	146.78 MHz
Sun	9:00 PM, SwapNet,	146.94 MHz
Sun	(after Swapnet) Newsline	146.94 MHz
Sun	(after Newsline) SSB net	144.225 MHz
Wed	8:30 PM SSB net	144.225 MHz
Thurs	7:00 PM, UTARC Net,	147.18 MHz
Thurs	11:30-1:00 Lunch At Holiday House on Airport Road	
Sat	7-8:30 AM Breakfast at Simon David Deli on Great Hills Trail	
Storm	WeatherNet,	146.94 MHz

Most Austin Radio club meetings are held at Luby's Cafeteria on North Loop.

The Austin Repeater Organization meets on the first Tuesday of each month at Luby's at 7:30 PM.

The Austin Amateur Radio Club meets on the second Tuesday of each month at Luby's at 7:30 PM.

The Austin Amateur TV Club meets on the Third **Tuesday** of each month at Luby's Cafeteria at 7:30 PM. **[DATE CHANGE]**

The Quarter Century Wireless Association meets on the third Saturday of each month at Luby's at noon.

The ARO transmitter hunt occurs on the Saturday following the ARO meeting. The hunt frequency is 146.52, with coordination on 146.94. 2/11, 3/11, 4/8, 5/6, 6/10, 7/8.

Ham exams are held on the first Saturday of **odd numbered months only** at Murchison Middle School. 2/4, 3/4, 5/6.
(Note there will be a session in February)

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. 2/18, 3/18, 4/29*, 5/20, 6/17.
(* Not regular week)

The ARO swapnet is transmitted at 9:00 PM on the 146.94 repeater. Newsline, an amateur radio news program, follows the swapfest. The swaplist is copied to WB5GHJ's packet BBS shortly after the swapnet is over.

A vertically polarized SSB net follows Newsline on 144.225. Another session occurs at 8:30 PM on Wednesdays.

The Travis County ARES nett meets every Sunday night at 6:30 PM - 146.94 MHz and 8:30 PM - 146.78 MHz. A packet session is held at 7:30 PM on 145.78 MHz unconnected mode.

Face-to-face meeting ARES meetings are held on the fifth Tuesday of months with a fifth Tuesday at 7:30 PM at Luby's Cafeteria on North Loop. 1/31, 5/30, 8/29