

AARC OVER

Bulletin of Austin Amateur Radio Clubs

Austin Amateur Radio Club
Austin Amateur Television Club
Austin Repeater Organization

ISSN 1067-0262

March 1995

Club Meetings

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

Austin Amateur Radio Club
Tuesday, March 14, 1995
The presentation will be on traffic handling.

Austin Amateur TV Club
Tuesday, March 21, 1995

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.

Scholarships

The Austin Amateur Radio Club is pleased to announce the availability of college scholarships through its Austin Amateur Radio Club Scholarship Fund. Funding is from a bequeath from the Jesse Copeland Estate.

Mr. Jesse Copeland, an active radio amateur until his death, loved his hobby. It brought him many hours of fellowship with friends all over the world. It was his wish that young "Ham" radio operators be encouraged by making college scholarships available to them. These scholarships are available to any central

Texas High School graduate who holds any class of amateur radio license. Whether the student is interested in attending Austin Community College, the University of Texas, or Harvard, these scholarships are available to aid the student in the achievement of his or her goal. There is no stipulation of the course of study, either. The student may receive a scholarship to pursue whatever field he or she chooses.

High school counselors are encouraged to identify students that show an interest in Amateur Radio and introduce them to this opportunity. For more information, please call the Austin Community Foundation at 472-4483.

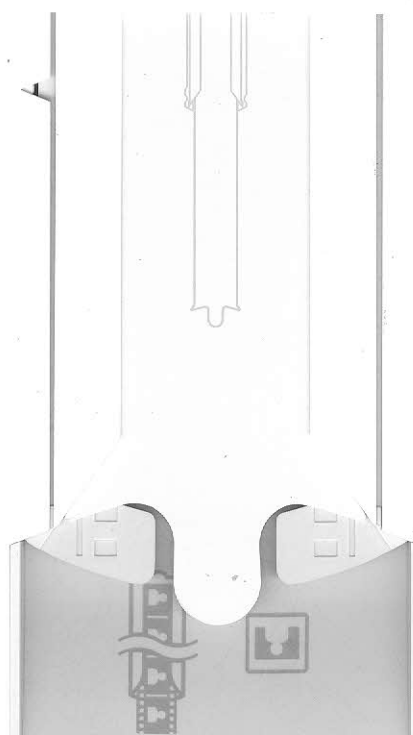
FCC Issued Call Sign Update

Callsigns issued as of February 1.

Extra	Adv.	Tech	Novice
AA0VS	KG0TJ	++	KB0QVG
AA1MB	KD1ZH	N1UFI	KB1BNN
AA2VU	KG2AP	++	KB2TLZ
AA3KC	KE3RA	N3UIZ	KB3BGK
AE4CX	KS4MX	++	KE4VDD
AC5AH	KK5JD	++	KC5MKA
AC6JX	KO6PF	++	KE6QOX
AB7HT	KJ7JB	++	KC7IQZ
AA8SA	KG8OO	++	KB8WQX
AA9NS	KG9AJ	N9ZZZ	KB9JCR

++All call signs in this group have been issued in this area.

*W. Nice K5TFZ
K5SHNN*



February Austin Repeater Organization Meeting

The meeting was called to order by President Phil Steinbach [WB5SUR] at 7:30 PM, February 7, 1995 at Luby's North Loop cafeteria. There were 85 people present.

The minutes of the January meeting were approved. There were four visitors in attendance.

Treasurer's Report

Balance as of February 7, 1995 is \$3,951.81.

Technical Report

No unsatisfactory equipment performance was reported.

Old Business

None

New Business

None

Announcements

Joe Makeever [W5EBJ] reported that Austin Summerfest will be held August 4, 5, and 6, 1995.

The meeting adjourned at 7:42 PM.

Respectfully Submitted
Warren Anderson [N5XUG]

Secretary

February Austin Amateur Radio Club Meeting

President Stuart Rohre, K5KVH, brought the meeting to order on February 14, 1995 at exactly 7:30 PM. The meeting was held at the Luby's cafeteria on North Loop.

Visitors

The following visitors were introduced. Ed Blume of the Texas School for the Blind spoke of wanting a volunteer to come out to their station and show them how to set it up. Joe Makeever, W5EBJ, presented the Club with a check for \$ 150.00; its share of the Austin Summerfest's proceedings from last year. He also called for all of the visitors to stand and remain standing and gave the rest of the club a four minute chance to go introduce themselves personally. The other recognized visitors were: Don Erickson, KC5LGR; Joe Motola, N8RQR; Charlotte Motola, KE4MGK; and Katie Motola, KE4UKL.

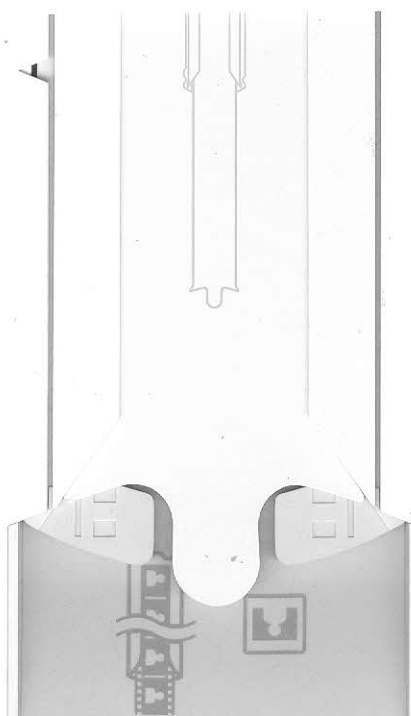
Welcome!

Minutes

The minutes of the January 10, 1994 meeting were approved as printed in the AARC/OVER.

Officer Reports

Treasurer John Weber, KF5OY, reported the checking account balance of \$1,022.39, and a postal account of \$351.53. Technical Committee Chairman Ed Golla, K3AHS, was surprised to learn that an on-site inventory had been done for the first time in recent memory, and reported slight trouble with the repeater voice mail not announcing to check your messages. He was asked about the Caller ID blocking on the autopatch, and said that people having trouble should discontinue their Anonymous Caller Reject option. Activities Manager Frank Edwards, KB5WOA, reported that Manchaca Swapfest is scheduled for April Fool's Day (April 1, 1995). He informed us that there has been a change in the parking arrangements for the swapfest, and made a request for volunteers to help in the morning and at noon for clean up. He also made a suggestion that we change the pricing structure for Manchaca, proposing that we have a different price for gravel tailgate areas (\$4.00), paved tailgate areas (\$5.00), and indoor covered pavilion (\$6.00). The officers will talk about the different options during their regu-



larly scheduled planning meeting.

New Members

None

Old Business

None.

New Business

President Rohre presented the Club with the proposed budget for Fiscal Year 1995. The budget was voted on and approved and is reprinted here in the Newsletter.

Announcements

Help is needed with the Scout Expo on April 22, 1995.

Bastrop swapfest is to be held in the American Legion Hall on February 18, 1995.

Skywarn time! Skywarn will be held again at 3M this year. The date is Saturday, March 4, 1995. Come on out for coffee starting at 8:15. Lunch will be catered.

Program

President Stuart Rohre, K5KVH, introduced John Warren, NT5C, of Georgetown. His program was entitled "So you want to be a DX'er?!". He gave some hints not only on operating techniques, but also propagation and QSLing. Thanks John, for a fabulous program!

Submitted with pleasure,
Gene Van Zelfden, KB5UGO
AARC Secretary

January 31, 1995 Travis County ARES Meeting

Members of Travis County ARES met at Luby's on January 31. Joe Fisher, K5EJL, handed out new membership badges and asked new members and visitors to introduce them-

selves. One visitor was Larry Jentry, KB4PR, the Texas State RACES Radio Officer. Joe Canfield, N5HPC, handed out a few RACES membership applications and will have more at upcoming radio club meetings.

Joe Fisher announced that the annual Heart to Heart exercise is scheduled for February 11-13. Joe has announced the exercise to hams all over the country via the Internet, so we may get a lot of DX traffic this time.

Rick Herndon, K5FNI, distributed all sorts of handouts, including the ARES standard 12 volt connector scheme. Rick handed out the new roster which he created and Mickey McInnis, KB5YAC, will maintain. If you have an e-mail address and would like it to be included on a list of Austin hams, please notify Rick (rherndon@ima.infomail.com).

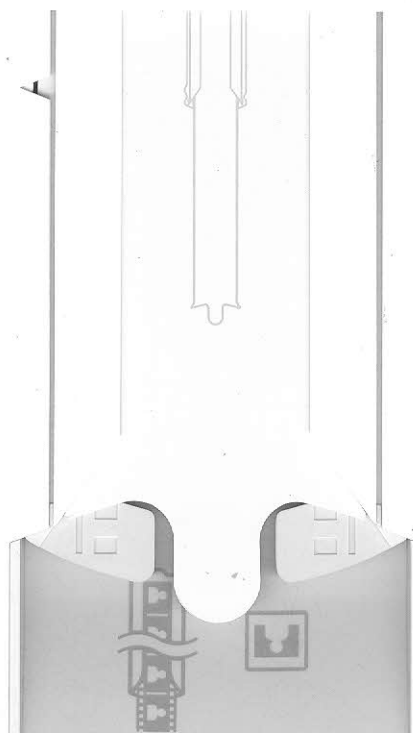
Wil Cowan, W5HNV, suggested that ARES announcements be put on a BBS or the Packet Cluster.

Stu Rohre, K5KVH, announced that the Red Cross Disaster Operations Center in Houston is trying a state Red Cross net on 40 meters (7240 to 7250 KHz). Try second Saturdays "on the hour." The hour might be 9 AM, but experiments are going on so it might instead be some other hour. Listen for W5KA, transmitting from the Red Cross building near Mueller airport.

Rick reminded us that traffic handling is an integral part of ARES membership. When incoming traffic is received by the net, someone(s) should volunteer to deliver it. Dave Effland, N5RNE, said that Net Control has the authority to assign incoming traffic to an ARES member. Rick asked that folks stick around for the duration of the net, unless they have specifically asked for "short time."

Roger Wines, KB5VHN, said that Travis County REACT needs assistance with the local Special Olympics (April 21, 22) and with Texas Special Olympics (May 24-26).

de Miles Abernathy, N5KOB

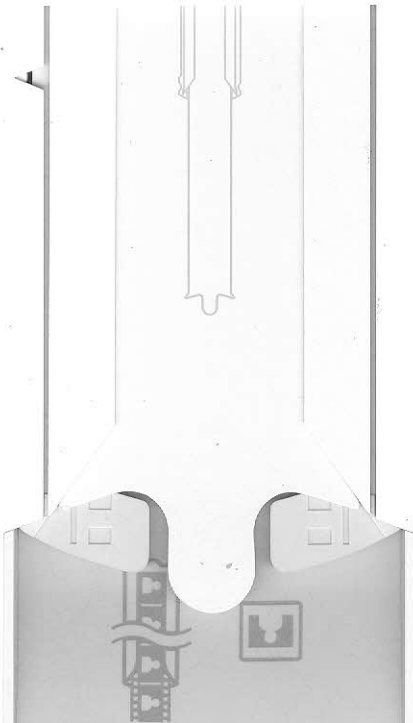


AARC/Over ARO Monitor

Austin Amateur Radio Club 1995 Budget

Brought Forward:	
Checking Account	\$605
Postal Account	90
Petty Cash	30
Due from ARO	800
	<hr/>
	1525
Expected Revenue:	
Dues	2625
Interest Earned	165
Manchaca Revenue	500
Banquet	600
	<hr/>
	3890
Total Budgeted Revenue	<hr/>
	5415

Expenses	
President:	
Discretionary Fund	200
	<hr/>
	200
Secretary:	
Mailing Permit	96
P.O. Box Rent	52
Roster Costs	350
Discretionary Fund	50
	<hr/>
	548
Treasurer:	
Check Charges	20
Discretionary Fund	50
	<hr/>
	70
Technical:	
Telephone (Repeater)	225
Repeater Repairs	587
Equipment Insurance	60
Field Equipment	100
	<hr/>
	972
Editor:	
Newsletter Postage	900
Newsltr. Printing	1400
Subscriptions	50
	<hr/>
	2350
Activities:	
Field Day	200
Banquet	600
Manchaca Swapfest	300
Monthly Program	75
Newsline	
(Hugo Sanchez)	50
Red Cross	50
	<hr/>
	1275
Total Budgeted Expenses	<hr/>
	5415



Frequently Asked Questions about TCPIP, Austin Gateway and Digital Repeater

by Dick Kriss, KD5VU
kd5vu@MoonTower.com or kd5vu@kd5vu.ampr.org 12-Feb-95

The following is the first in a series of articles that will go under the header of Frequently Asked Questions (FAQ) about TCPIP, the new Austin Gateway and the Digital Repeater. The size will depend on the questions and reader interest.

Q: What is the status of the new Austin high speed gateway and digital repeater project? <several>

A: The hard part is history! On 9-Feb-95, Keith WB9KHL, obtained permission from Apple Computer to install the Phase I Gateway. A test station is operational using an PC owned by Apple, Keith's HT and TNC and inside antenna. The equipment is installed beside Keith's desk on the 2nd floor in the middle of the building. With the recently obtained Apple approval, a real antenna (Ringo-Ranger II donated by Mac KB5VYT) will be installed on the roof and the equipment will be installed in a better location. This interim Phase I setup should be operational before the end of February.. As you will recall the project is planned in three phase. Phase I is a VHF gateway; Phase II is the new UHF digital repeater; and Phase III is the router so 1200 baud users will have access to the gateway. Look to next month's article for a more detailed update. <kd5vu>

Q: What is the callsign for the Austin gateway? <several>

A. Today, Keith is using off.wb9khl.ampr.org [44.76.1.231]; however, when you see the FCC required AX.25 packet header it says WB9KHL-1. Keith's home station is wb9khl.ampr.org [55.76.1.230]. The reason I used the word 'Today' is Keith and Joe Thiel, n5smn, are working on the IP numbers and the gateway will change to the IP number already assigned for the Austin area. The gateway will be addressed:

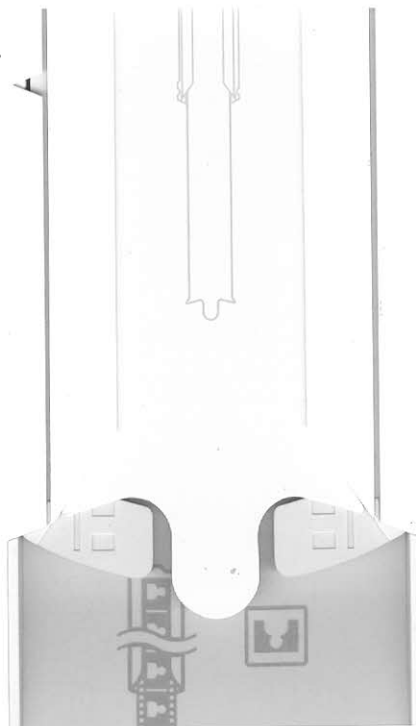
```
ausgw.wb9khl.ampr.org IN A 44.76.1.21 ausgw in cname ausgw.wb9khl
```

This means if someone addresses a message to n5smn@ausgw.ampr.org, the ucsd database will rewrite the file and send it to the Austin Gateway using the real address of ausgw.wb9khl.ampr.org [44.76.1.21]. <kd5vu>

Q: What is an IP number and how do I apply? <several>

A: Without getting into the nitty-gritty, each station in the 'ampr.org' domain has a unique identification number. All Amateur Packet Radio (ampr) addresses start with 44.XX and this sets the ampr.org domain apart from the other internet addressees. The remaining numbers depend on your area. The Austin area sub domain is 44.76.1.XXX and the last set of numbers are assigned to users. For example, my IP number is [44.76.1.40] and the whole world knows that number belongs to KD5VU.

Joe Thiel, N5SMN, is the Regional Coordinator for this area. Joe assigns and coordinates the number assignments for the following counties:



Travis, Williamson, Milam, Burleson, Washington Fayette, Lee, Bastrop, Caldwell, Hays, Blanco Burnett, McCullouch, San Saba, Llano, Gillespie Mason, Kimble, Menard, Concho

Joe can be reach by contact on the:

Phone : 512-832-0450 :

Austin DX Packet Cluster: KG5ND 144.95 MHz

AX.25 Packet: N5SMN @ W5SYT.#AUS.TX.USA>NA

PBBS AMPRnet : n5smn@n5smn.ampr.org 145.67 MHz

Internet : jthiel@brcl.tdh.texas.gov n5smn@bga.com

Please do not request a number unless you really intend to get on the air with a tcpip station. If you have an existing number and do not plan to use it, please contact Joe. He is trying to clean up the database and would like to be able to assign some of the old numbers. <kd5vu>

Q: How can I test drive tcpip to see if I really want to get involved or spend money upgrading my station. <several>

A: If you already have a two-meter packet station, just put your radio on 145.670 MHz (simplex) and take a test drive. Your first reaction will be I can hear packets but my station does not copy anything but an occasional ID beacon from one of the station. Some of the local stations are running software that supports both AX.25 and tcpip packets and ax.25 connects. Just connect to one of the stations just like you connect to any other station but you may have to enter a return after your TNC indicates you are connected.<kd5vu>

Q: If I connect to a tcpip BBS, how do I send a mail message? <several>

A: Just remember two things: 1. Use lowercase letters for the address (DO NOT USE UPPER-CASE) and 2. Do not put spaces before or after the '@' sign. You have to know who you want to send to and where you want it to show up. If you are on N5SMN's NOS station and you want to send a message to me, the address syntax would be:

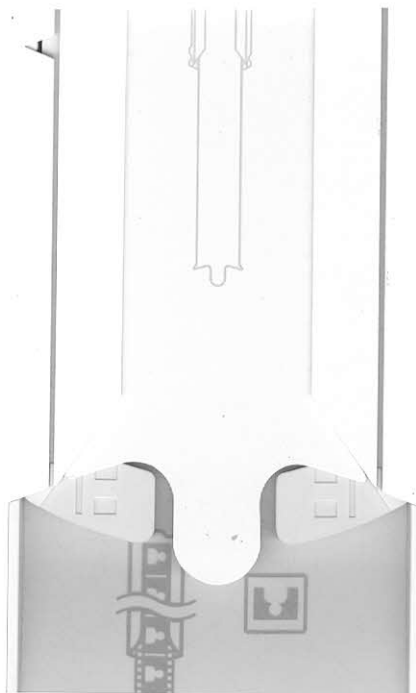
s kd5vu@kd5vu.ampr.org

That will tell Joe's station to send it to my station. Once the gateway is up and operational, you will be able to use the same syntax for any station in the world. I exchange message all the time with PA2AGA in The Netherlands and use the following address for Adam.

s pa2aga@pa2aga.ampr.org

My station knows that pa2aga is not a local due to his callsign and will automatically route the message to the ausgw.wb9khl.ampr.org and let the gateway figure out how to get the message to Adam's home station. Depending on how I address the message it will show up in his Mac PowerBook in the living room, his ham shack or at his office. The ausgw will look up pa2aga in the domain name server that is located at ucsd and the database has routing instruction to the nearest gateway.<kd5vu>

Q Suppose I wish to send packet mail to an amateur who does not have a gateway in his city, or perhaps I don't know whether or not he has a gateway. But he has access to an AX.25 packet BBS at 1200 baud and I have his packet address. Can I send him packet mail over the proposed high speed gateway/repeater?
<kj5vy>



A. The answer is 'Yes'; however, you need to understand what tcpip can and cannot do. If I wanted to send a message to a packet station in another city that does not do tcpip or have a gateway, I would probably just send it via the normal packet forwarding system using a Full-Service BBS, like W5SYT here in Austin. With the new gateway you have other options. Some of the gateway stations are dual-ported. Jack, kf5mg in Dallas maintains the dfwgate.ampr.org gateway and also maintains a Full-Service AX.25 BBB. The message could be send via tcpip to the dfwgate gateway and then placed on Jack's BBS for delivery via the normal system. The message would be in Dallas and on its way to the destination station within a few seconds. There is a growing trend among BBS SysOps, like Jack in Dallas, to pass traffic via tcpip to another gateway near the destination and let the SysOp on the other end get the message placed to the home BBS. <kd5vu>

Q: What is the advantage to the proposed system when I can just send my amateur friends mail directly over Internet?. <kj5vy>

None! I have access to internet and send messages to many amateur friends via internet mail all the time. The proposed system is not intended to compete with the various internet providers. The packet system is not a poor man's path to the internet. If you want to surf the internet, get an account from one of the many local providers. The advantages of this proposed tcpip packet system over the existing packet system were outlined in Keith Watson's article. <kd5vu>

Q. Is there an ARES component to your plan? <ab5lj>

A. Not at the present time; however, the new Austin network will open up some interesting areas for ARES to explore. Some have talked about using the gateway for the next SET. We will have a new amateur radio tool and the operators will find the best way to use the new tool. <kd5vu>

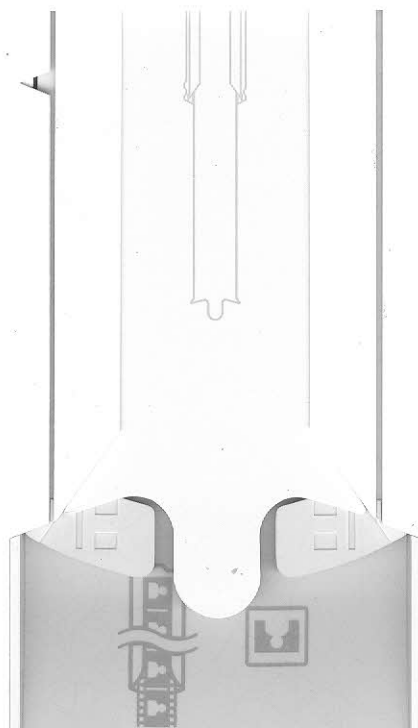
Q. Can I use my existing dual band radio if we choose to go with 9,600 baud? At 9,600 baud, are we restricted to UHF frequencies due to bandwidth considerations? <kj5vy>

A. This is a good question and the short answer is yes you will be able to use your existing dual-band radio. The current plan is to create a high speed link and the exact speed has not been determined. If the Technical Committee decides to go with speeds greater than 9600 on UHF, your current dual-band radio will not work. However, you will be able to access the system via the two-meter router at 1200 baud. I own two dual-band mobile radios and personally consider them worthless for packet. The dual-band receivers are so intermod prone they are just not suited for packet operation. My old Icom 22U two-meter rig is great for 1200 baud packet. I am not 100% sure of the bandwidth restrictions, but my understanding is we cannot exceed 9600 on VHF and are probably dollar restricted in the UHF frequencies. <kd5vu>

Q. What equipment is required to access the proposed 19,200 baud network? Radio? TNC? <kj5vy> In addition, several asked about using their new 1200/9600 baud TNC from Kantronics and the new MFJ data radio that does 9600 on VHF for about \$125.

A. The current generation TNCs (or amateur radios) will not work at speeds faster than 9600 baud, so a special TNC and radio will be required. PacCom sells a new TNC that cost less then \$300 and the TEKE commercial radio sells for \$125. Stay tuned for March update and report from the project technical committee. They are doing phase II feasibility studies. <kd5vu>

Q. Can the proposed network be used to gain access to the general Internet via amateur radio? If so, is it subject to abuse? Likewise, can an Internet user (non-amateur) gain entry to the amateur packet net? What barriers might be used to prevent such questionable practices? <kj5vy>



A. We all have amateur radios that can transmit outside of bands allowed for our class of license. As amateurs we do not transmit out of band. The gateway is capable of full access to the internet; however, it will probably have some restrictions. Most gateways are open systems and users do not abuse the system. If people abuse the connectivity, the SysOp has the ability close the system. Users will be required to register and passwords will be needed for access to certain functions. In addition to passwords the gateway may be restricted to only accept messages from other stations that have the 44 prefix IP number. This will block all non amateur messages from the system. This topic will be addressed in future articles. <kd5vu>

Q. For local communications via high speed packet, does our system bypass the Internet gateway, that is, is the gateway only used to access station addresses outside our immediate geographical area? How is our proposed system different from a regular packet BBS? <kj5vy>

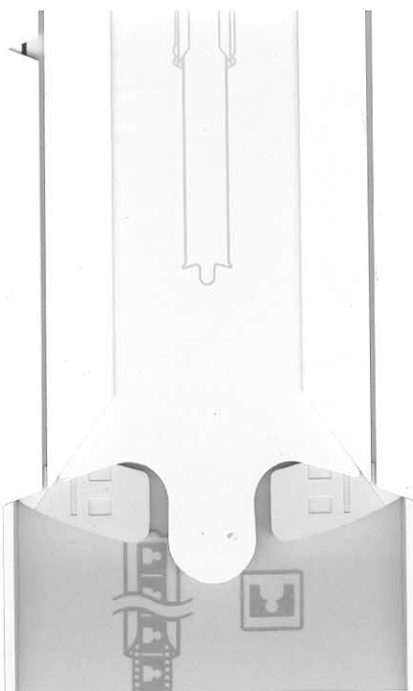
A. The local high-speed system (that I call ausgw for Austin Gateway) is a Local Area Network (LAN) that will not use, and does not need, the internet. The internet connection will only be used to route messages to stations outside the 44.76.1.XX domain. The differences between a tcpip and a regular packet BBS are numerous. On AX.25 packet you generally send a message to a BBS and it holds the message for the person to read later. The gateway (or router) can be used just like a AX.25 BBS; however, it is not necessary since it is just as easy to place the message direct into the destination station's personal mailbox. There are many differences and that may be the subject of another FAQ session. <kd5vu>

Q. The proposed repeater is a "digital repeater". What makes it different from a packet digipeater? <kj5vy>

A. Good question....just ran out of gas (and space) on answers for this month. Stay tuned to next month for an answer. <kd5vu>

For next month I plan to address several questions about software. These run from what software is needed, how do you get it and is it easy to install/run. The good news is it is all free Public Domain software for use by amateurs. The bad news is you get what you pay for and it is far from no-brainer boot-and-play software.

Quoting Andy Rooney from 60 Minutes, "Computers make it easier to do a lot of things, but most of the things they make it easier to do don't need to be done." OK, that's enough for February 1995 FAQ's. <73 de Dick kd5vu sk>



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	451-4318

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

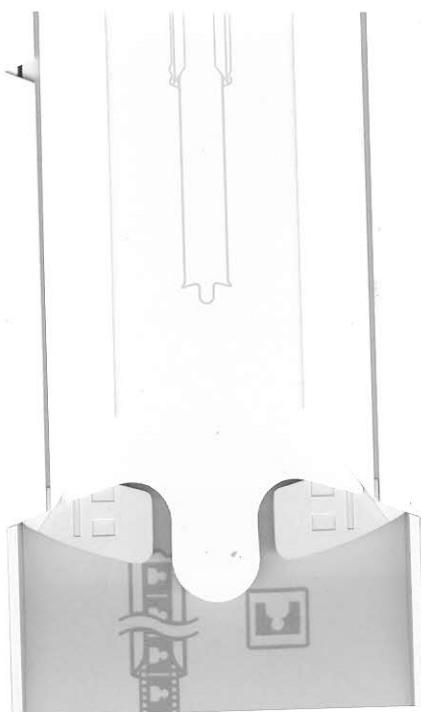
Please contact a club officer or attend a meeting to join either Organization

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, Austin, TX 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 Newslines 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

The South Austin W5YI VE team celebrates its third year of operations by congratulating the following people who earned new or upgraded amateur radio licenses at its January 21st session:

Jeffrey L. Brown	KC5LQM General
Matthew G. Piskorz	KC5EMV General

Maxie J. Triplett	KB5ZOA General
Martin N. Wennerstrom, Jr.	KC5JTO General
Jon A. Hein	-new- Tech Plus
Bob S. Scarborough	-new- Technician
Shelly A. Smith	-new- Technician
Susan A. Titsworth	-new- Technician

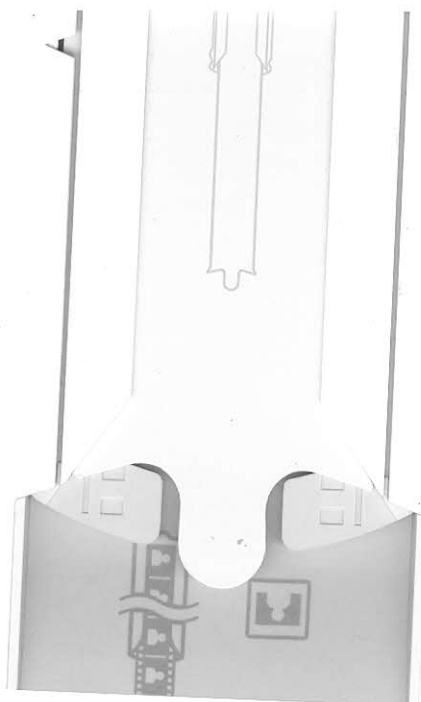
Five others passed at least one examination element without upgrading.

The volunteer examiners were:

Bob Basinger	AB50C
Dick Ber	KB5BBU
Hugh Brown	KC5EYI
Lloyd Goerhring, Jr.	N5HYR
Jim Greenwood	AB5EK
Emil Kasprzyk	KC5IZ
Steve L. Sparks	AB5SV
Scott McCreight	AB5KS
Bill Montgomery	AB5HP
Steve L. Sparks	AB5SV
Carol Thiel	N5TLY
Joe Thiel	N5SMN

The FCC's new electronic filing system is up and running. This allows new licensees to begin on-the-air operation on the basis of their call sign appearing in the FCC's data base without having to wait for their hard-copy license to arrive. This new call sign information is available from the FCC's Consumer Assistance Office whose toll-free telephone number is 1-800-322-1117. Applicants may call between the hours of 7:30 AM and 3:30 PM Central time on Monday through Friday.

We will be up an drunning for our next exam session on February 18th at 2:00 PM in room 109 of Fleck Hall on the campus of St. Edward's University. Our next session after that will be on March 18 at the same place and time. Call Jim, AB5EK, at 327-6184 for more information.



Calendar

March

- 4 Ham Exams, Murchison
- 4 Weather spotter classes
- 7 ARO Meeting @ Luby's
- 14 AARC Meeting @ Luby's
- 18 QCWA meeting @ Luby's at noon
- 18 Midland Swapfest
- 18 Ham Exams, St. Ed's 327-6184
- 21 AATVC Meeting @ Luby's

April

- 1 Manchaca swapfest
- 22 Belton 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.

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. 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. 3/4, 5/6.

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. 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 net 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. 5/30, 8/29

