

AARCOVER

Bulletin of Austin Amateur Radio Clubs

Austin Amateur Radio Club
 Austin Amateur Television Club
 Austin Repeater Organization

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2004 Austin Radio Round Up Wound Up

By Stuart Rhore, K5KVH

The effort to revive a Fall Swapmeet in Austin has seen its second presentation. This year, the Friday night dinner had the added feature of the games of a Casino Night, where your winnings were an added raffle ticket. A change of menu this year was chicken and fish from Catfish Parlor.

The committee put in many hours in securing the location, arranging for out of town vendors, food, (both for Fri. night and for early Sat.) and setting up the donations for silent auction, raffles, securing donations and the myriad other needs of a function like this. Jeff Schmidt N5MNW and Lori Schmidt, KM5MQ put in many hours promoting the fest, taking reservations, etc. Roger Wines, W5WIA and Jerrie Wines masterfully put on the Casino Night, where arranging for the equipment was no small feat in and of itself. They also once again pulled together the Silent Auction with many varied prizes and a guest speaker, our own "newer ham" Weather guru, Troy Kimmel, KE5BCK. Jerrie Wines provided the clever Western Theme of table decor: sample boots from her employer with bluebonnets. Alvin DeVane, WB5HZQ facilitated our securing the Church Hall and outside area for tailgating. Thank all these folks and the club officers and tireless Editor Mitch London, KD5HCV, and all the helpers, (I am likely to not remember all, so a group thank you and atta way to go, to all).



Smokey Wiley, K5RDJ, describes what it is.

Now, despite beautiful weather, we saw a decline in attendance from out of town, and from even our own members. Well, we need you, the local folks to put your ears to the airwaves and help us find out how to attract more people to such an event. Do you, the local club members, have suggestions about the Swap Meet format, and have you heard why we did not see the out-of-towners as we hoped? Surely, it was not because it was the first day of deer season? Are many hams, hunters?

(Continued on page 4)

Periodic Events

Sun	6:45 p.m., Bastrop ARES net	145.35-(114.8)/443.75 + MHz
Sun	7:30 p.m., Travis ARES net	147.36 MHz + (131.8)
Sun	8:00 p.m., Travis ARES Packet	145.73 MHz -
Sun	8:00 p.m., Williamson ARES net	145.13 MHz -
Sun	9:00 p.m., ARO Swapnet	146.94 MHz -
Sun	(After Swapnet) Newsline	146.94 MHz -
Mon	6:45 p.m., Hays ARES net	147.10 MHz -
Wed	8:00 p.m. Code Practice	146.78 MHz
Wed	11:30 a.m.-1p.m., Travis County ARES lunch @ Jim's	183 & Burnet Rd. 837-1119
Thu	11:30 a.m. - 12:30p.m., lunch, Waterloo Ice House	444.1 MHz+
Sat	7:00 - 8:30a.m., breakfast, Waterloo Ice House, 8600 Burnet	444.1 MHz +
Sat	9:00 a.m., Chapter 67 QCWA QSO Net.	3.920 MHz LSB
Daily	CTTN Central Texas Traffic Net, 6:30 p.m.	147.14MHz+

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Christmas Party

By Mitch London, KD5HCV

Who: You and your family!

What: The 2004 Christmas Party

Where: The Episcopal Church of the Resurrection located at 2008 Justin Lane. Across from Roger Beasley Mazda North.

When: Tuesday December 14th starting at 6 PM

Why: Because we are gonna have a grand ole time!

How Much: \$7 in advance (prior to Dec.) \$10 at the door.



This years party will be one to remember! There will be BBQ provided by the ever popular John Mueller's of Austin. He will provide us with delicious smoked turkey, brisket, and sausage along with all the trimmings! The only thing he doesn't bring is your appetite!

This is also a pot luck dessert party so please bring a pie, cake, cookies or whatever you want. If you are making a low carbohydrate or low sugar item, make a note card to let people know.

George Toone, WB5FBJ will provide the musical entertainment this year. For those of you that have not made one of his shows in the past, do not miss this!

We will be having a QLF contest again, which of course is sending Morse code with your left foot, as well as a table top decoration contest with special prizes for both, a silent auction with proceeds going to AARC. Speaking of prizes, boy do we have a lot of great items to give away! Books, movies, coffee mugs, picture frames, electronic gadgets and much more, oh yeah and lets not forget about our **GRAND PRIZES!**

That's right I said prizes, because we have not one, not two, but **three grand prize items**, two of which are HT radios! The third is a special prize! It is a flag that will have flown over the state capitol of Texas on December 5th, 2004, marking the 85th anniversary of the Austin Amateur Radio Clubs affiliation with the American Radio Relay League. ARRL West Gulf Division Director Coy Day, N5OK will be on hand to make a special presentation to the club that night! I hope to see you all there!

Ham Radio Volunteer Exam Results

ARRL VEC – The following is a summary of the ARRL VE test session held at Murchison Middle School on November 6th, 2004:

Technician Class License Processed

Asa S. Kirby

Extra Class License Processed

Wayne L. Smith KE5CHG

Examiners Participating in this Test Session

Tony Davee KM5JH Larry Gunter WB5BEK

Jerry Jackson N5UJ Joe Makeever W5HS

Bill Montgomery K5ZSI George Shamblyn WA5CSH

Joe Thiel, N5SMN

Next Two ARRL VE Test Sessions

December 4th - Murchison Middle School

January 8th - Murchison Middle School

TNX ES 73 DE W5HS

Joe

W5YI-VEC – The South Austin W5YI VE team heartily congratulates all of the following people who earned new or upgraded amateur radio licenses at our November 20th session:

Extra Class –

none

General Class –

none

Technician Class (all new licensees) –

Stephanie E. Beckett

John C. Browning

Edgar C. Lightsey

Alexander Savage

Ramey E. Wyble

Another applicant earned element credit without upgrading.

Our volunteer examiner were:

Hugh Brown, NT5O

Jimmy Mercer, N5WDH

Lloyd Goehring, N5TO

Sam Mihalik, KM5MY

Bill Goff, N5WCB

Dennis Murphy, W5KQF

Jim Greenwood, AB5EK

Roger Pfluger, AC5IP

Tony Lyon, KJ5XF

Thomas Visel, NX1N

Our next two sessions: December 18th, 2004 and January 15th, 2005 at 2 PM in room 109 of Fleck Hall on the campus of St. Edward's University.

Exam fee is \$12.00

Please bring two forms of identification plus your social security number.

Sessions are accessible to handicapped applicants.

No pre-registration is required.

Walk-ins are welcomed.

Austin Amateur Radio Club, Inc., PO BOX 4739, AUSTIN TX 78765-4739, Web site: <http://www.austinhams.org>

President	John Suchyta	KG5O	261-4931	kg5o@arrl.net
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Technical (Repeater Contact)	Jon Dahm	WB5PCV	328-6662	jon.dahm@motorola.com

Please contact a club officer, attend a meeting, or mail us to join either or both organizations.

The Austin Amateur Radio Club, Inc. and The Austin Repeater Organization have combined membership dues of \$20.00/ calendar year (\$30.00 family to the same address)

The Austin Amateur Radio Club, Inc. AARC maintains a repeater with an open autopatch and emergency power on 146.78 MHz and an emergency HF/VHF station at the American Red Cross building. Persons residing or working within the coverage area are expected to join the club, if they use the autopatch. Non-residents on short visits are welcome to use this autopatch.

The Austin Repeater Organization ARO maintains the following repeaters: 146.88MHz (-600) with autopatch; 146.94 MHz (-600) used for Weather Net when called, and Travis County ARES. It is also used for Swapnet and Newline @ 9p.m. Sunday; 224.80 MHz (-1.600); 444.10 MHz (+5); & 145.01 <Hz packet NetROM node (KB5PM-1 or alias AUS). Persons residing or working within the coverage area are expected to join the club, if they use the autopatch. Non-residents on short visits are welcome to use this autopatch. **The 146.78 and 146.88 repeaters have open autopatches.** Please transmit your call **before** sing the phone patch. 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.

AARCOVER Information

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Viewpoints expressed in the AARCOVER do not necessarily reflect those of any club, or of its members, directors, or officers.

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Members and other readers are encouraged to submit material for publication. Call Mitch London, if mailed submissions are required. Electronic files are encouraged! Submissions may be edited for publication. **Deadline is the 15th of the month.**

Material may be used in a later issue. Unless otherwise noted, permission is granted to reprint AARCOVER articles, provided you credit the author and the AARCOVER.

"NOUJR and His Friends" is reprinted with permission by Greg Trook, Trook Enterprises. Cartoons may not be reprinted without written permission. For information: <http://incolor.inebraska.com/n0ujr>.

Thanks to Smokey Wiley, K5RDJ, and his wife, Betty Wiley, KD5DTC, who mail the AARCOVER each month!

For Changes in your ADDRESS, PHONE NUMBER or CALL SIGN:

See Roger Wines, W5WIA (512) 453-2193 w5wia@arrl.net

Roger handles all changes for AARCOVER mailing labels & membership information & roster questions.

(Continued from page 1) Round Up



Roger Wines, W5WIA sells tickets.

Of course Belton Swap was down this Fall due to heavy rain over the Central TX area; but we were lucky and blessed with delightful sun and mild temperatures.

I can only speak to what I observe at midmorning at swaps, as I wait for the crowds to clear out the clutter, and I figure then, I can more easily see something I might want. Also, my personal goal at recent state wide swap meets has been very much more focused on buying one accessory, or antenna, or smaller items, and not stocking up on components. Many of us, I fear, have reached garage and junk box capacity, or at least have so much, we are at the point of knowing we have something we need, but not being able to find it among the plenty. Is that how you feel about going swap meet shopping?

The club swapmeet has long been intended as a fundraiser for the club; and next time we do one, it seems we need to find a lower cost venue. The cost of locations was a factor in decline of the former Manchaca meet. Once we were losing parking spaces, and rent was rising, and no other suitable low cost covered space was evident, the attendance at Manchaca went down and the club making money as well.

We compete with the huge facility the Temple Amateur Radio Club enjoys each Fall and Spring with Expo Center. Also, Ham Com, which is a multi towns and clubs effort. Do we need to unite more clubs in Central TX to have a good sized Roundup?

Definitely, the club needs fundraising, and we need to find lower cost ways of doing it. IF any member or non member has ideas on improvements, food provision, program format at Roundup, please share them with the Club Officers and committees. WE NEED YOUR INPUT! Remember the old tale about the typewriter which lost it's "e"?

Thx loss of a singlx lxttxr lixk that, can put a sxrious dxnt into thx xfficixnt functioning of thx wholx machinx!

As you renew your club dues this month, please attach a note to your renewal on things you would like to see re Roundup, and any club activities.

Again, Thank those workers on Roundup at the Club Christmas party, (and the party workers). Mitch and Alan again are planning a great December activity, and we want to see you there before another year is history!

The club is the MEMBERS, YOU!

-Stuart Rohre, K5KVH -Activities Committee chair



Jeff Schmidt, N5MNW gets a volunteer to draw the next ticket.

Jesse Copeland Scholarships Deadline Approaching

Now is the time to request application papers for any ham students interested in the Austin Amateur Radio Club/ Jesse Copeland Memorial (W5TQ) Scholarships. Before you get too busy with Christmas and Holiday plans, get that student to call ACF and request the application papers for scholarships. Then copy the student's ham license, and you will be ready as soon as Fall Grades transcripts are published, to complete the application by sending all of the above to Austin Community Foundation, (Austin Amateur Radio Scholarships). (local phone in the business white pages.)

Once all the applications are in by the end of January, the ACF will forward them to the club's own Scholarship Board for ranking and selection. Note, if you know a student currently getting one of the scholarships, remind them they must reapply to continue receiving aid. The scholarships are granted to first year college students, and also to upper division students. In addition, applications will be considered for professional advancement courses having CE credits, and trades training. Funds are sent direct to the school. Advances for handicapped students special needs such as bus transport can also be paid out of the scholarships.

The only requirement other than good grades for a Jesse Copeland Scholarship, is possession of any class of amateur Radio license. Scholarships are granted mainly in the Greater Central Tx area, and not just to members of AARC. However, that may be one of the considerations evaluated by the Board, when there are more applications than available returns on the Scholarship investments. This Scholarship Program has granted several hundred thousands of dollars in its existence, and grants amounts larger than some of the national programs of ARRL, Quarter Century Wireless Association, and others.

The Scholarships honor Jesse Copeland W5TQ, (sk) long time club member who wished to benefit Central TX ham radio with his estate.

Austin QRP Club Marks Sixth Year

Glen Reid, K5FX

The Austin QRP Club (AQRP) first gathered at the Motorola Oak Hill plant in 1998. The club, started as a Central Texas resource, has grown to over 100 members around the world.

AQRP meeting (11am on the second Saturday of each month) typically have 12-20 members gathering at Alvin's Sandwich Shop, 12200 Research Blvd. Alvin's is owned by John Fisher, K5JHF, a longtime club member, who graciously hosts us (in spite of the fact that we closed down two other local restaurants where we were meeting).

Favorite topics at the meeting are homebrew construction and QRP operating, but subjects range from technology to politics. There is always lots of "hands-on" and "show-and-tell" including latest ham radio kits and gadgets.

Outdoor meetings, where AQRP members gather at a local park for an operating event, are held occasionally. Antennas are strung from the trees. Often, there is a "pot-luck" lunch or dessert, prepared and shared by members.

AQRP sponsors a trophy for the 1st Place QRP competitor in the Texas QSO Party; we have entered the ARRL Field Day with the club station KQ5RP; and have organized QRP forum at the Austin Summerfest. The club also awards the prestigious AQRP Straight Key Wrangler award and certificate to hams who use only manual straight key for all their CW operation. The "Wrangler" award is available by application, AQRP membership is not required.

If you are interested in construction, operating in the great outdoors, or just good ham talk, checkout the AQRP website at: <http://www.qsl.net/kq5rp/index.html> for club details and join us.

CUL es 73

gr
K5FX

CLUB MINUTES

ARO Meeting, November 2, 2004

The meeting was called to order at 7:16pm by President Jeff Schmidt, N5MNW, at the Marimont Cafeteria on 38th at Guadalupe.

Visitors: Fred Juch, N5JXO, visited with us tonight.

Monthly Drawing Winner: Steve Suehs, KD5SZP, won the door prize, a Rayovac flashlight with batteries.

Minutes: The October 2004 ARO meeting minutes were approved as published in the AARCOVER.

Treasury Report: Treasurer Roger Wines, W5WIA, reported a bank balance of \$1690.30.

Technical Committee: Nothing to report.

Old Business: None. **New Business:** None.

Web Site: Get any updates to Lee Cooper, W5LHC.

Ham of the Month: President Schmidt named Alvin DeVane, WB5HZQ, as Ham of the Month for influence and work in getting St Louis Catholic Church as the venue for our second annual Austin Radio Roundup.

Equipment Loaner Program: Curt Goodson, W4QBU has the club's MFJ259B antenna analyzer. The Yaesu FT530 dual band HT and Kenwood TS140 HF rig are available. Contact Lori Schmidt, KM5MQ, to reserve equipment and make suggestions for new equipment.

Announcements: Jeff Schmidt and Roger Wines gave an update on the upcoming Radio Roundup.

Jeff Schmidt gave an update on the AARC Christmas Party. \$7 per person in advance, and \$10 at the door. Make checks payable to AARC and send to Mitch London, 5601 Lewood Dr, Austin, 78745. There was some debate on the menu, but was tabled since Mitch wasn't in attendance. A map to the party appears at www.austinhams.org/xmas2004.html.

Roger Wines announced there is interest in the CERT/DRA community for ham classes. Roger announced classes in December & January that will be held on 2 consecutive Wednesday nights, with one make-up session. This would be followed by an exam session on the next Saturday.

The business meeting was adjourned at 7:59pm.

Program: Thomas Visel, NX1N, presented "Design of Directional Microphones (and Antenna-Like Thingies)". The handouts were very much appreciated because he covered a lot of material. Thomas pointed out many areas where the designs of microphones and antennas are similar.

The presentation was broken into 3 parts: Basics of Sound, Point Focus Microphones, and Phased Array Microphones. The Basics of Sound covered familiar wave fundamentals of frequency, wavelength, constructive & destructive interference, and quadrature. The practical application of this was that the ear spacing of humans and critters is about a half-wavelength of the predominant frequencies we experience in voice and sound sensitivity.

(Continued on page 6)

Point Focus Microphones covered unidirectional and omnidirectional mics. (The basic difference is that unidirectional mics have back side holes while omnidirectional mics have the backs filled in.) Thomas related the concept of the RF dipole to the unidirectional microphone. He then demonstrated a point focus microphone made with 2 rings of electret elements.

The section on Phased Array Microphones was also applicable to antennas. Instead of using mechanical means to rotate a group of microphones, the same effect can be created by using delays in the mic outputs to aim the microphone elements to the sound source. Thomas demonstrated a software simulator he developed on the PC to map the acoustics of a large room.

Submitted by John Suchyta, KG5O

ARO Secretary

AARC Meeting, November 9th, 2004

The meeting was called to order at 7:15 pm by President John Suchyta, KG5O, at the ARL Labs on 10000 N. Burnet Road, Austin Texas

Visitors: Ramiro Montemayor, KD5MMJ came as a visitor to the meeting and left as our newest member. Welcome, Ramiro! Also, Thomas W Gober, N5DUX from the Nagadoches area also visited us.

Monthly Drawing Winner: Lori Schmidt, KM5MQ was present and won the monthly door prize which was a Digital Volt-Ohmmeter.

Minutes: The October 2004 AARC meeting minutes were approved as published in the AARCOVER. The motion to approve was made by Jeff Schmidt, N5MNX and seconded by Jerry Jackson, N5UJ.

Treasury Report: Roger Wines, W5WIA reported a balance of \$2777.90 cents. He is still going over the final numbers from the Radio Roundup. Please note that the annual club dues are due.

Technical Committee: Jeff Schmidt, N5MNX reported that he will plan on using the DVR board on the 146.78 more. Mitch London, KD5HCV reported having trouble accessing the repeater recently.

Jeff also reported that Hustler is now making a 60 meter resonator, one of which he picked up at the Round Up.

Committee Reports: Stuart Rohre, K5KVH reports that the Field Day results are out in the latest QST. We are listed under both W5TQ and W5KA. Total points were around 4000.

Announcements: Reminder that the December meeting will be the annual Christmas Party. The party will be held at a new location this year. See website for details and map. There will be Smoked Turkey, Brisket and Sausage for dinner. Pot Luck desserts and plenty of great door prizes including an American Flag flown over the capitol on the 85th anniversary of the AARC becoming an ARRL club. George Toone, WB5FBJ will be our entertainment again this year after a two year successful engagement in Houston.

Lori Schmidt, KM5MQ announced that it was Jeff's birthday.

Mike Lay, N5PTN, mentioned the MS-150 is coming up on the 17th and 18th of April.

Mitch London, KD5HCV, needs articles for the newsletter. Write! Submit! Be heard and inform. You can do it!

Stuart Rohre, K5KVH indicated it was time to get applications in for the Copeland Fund grants. These grants are made to young hams that are looking for scholarship monies for college. Contact Stuart for additional details or call the Austin Community Foundation at

<http://www.austincommunityfoundation.org/> or 512-472-4483. The committee meets in March to make awards.

Roger Wines, W5WIA discussed upcoming Technician Classes that he will be giving at the EOC for CERT volunteers seeking their ticket. Others welcome to attend. There will be two sessions that will be taught. See Roger for details.

The 6th Annual Skywarn Recognition day will be coming up on December 4th. See website for details.

Mickey McInnis, WX5U is interested in finding out how many folks would be interested in starting up the Transmitter Hunts again. A show of hands resulted in about 10 folks that were interested. If you would like to get involved please contact Mickey on the 146.940 repeater. There used to be a very active group in town that had lots of fun with it.

Volunteer Opportunities:

- Trail of Lights - December 12 through the 23rd
- AARC Christmas Part - December 14th
- 3M Half Marathon - January 30th

Old Business: None

New Business: Officer elections were held. Results: President, John Suchyta KG5O, Vice President Jeff Schmidt N5MNX, Treasurer Jerry Jackson N5UJ and Secretary Lee Cooper W5LHC.

Web Site: The website, austinhams.org, has current information, the latest swapnet and the current AARCOVER online. Check us out

Program: Ronny Risinger, KC5EES did a two part program related to the "Big Project" which is the ARRL initiative to promote ham radio in our local schools. LBJ is one of the first in Austin to get onboard. Ronnie attended a Teacher's seminar at ARRL Headquarters and showed a number of slides of WIAW and talked about the interest and backing in the program by ARRL staff. The second part was on LBJ itself and the success that Ronny has had with getting the program started. They are building a new radio shack and lab as well as getting ready to put up a 50 foot tower on the roof. Ronny is seeking mentors to come in and teach a session on various aspects of ham radio to the students. You can contact Ronny at LBJ high school or at rrisinger@austin.isd.tenet.edu if you can help out.

Respectfully Submitted,

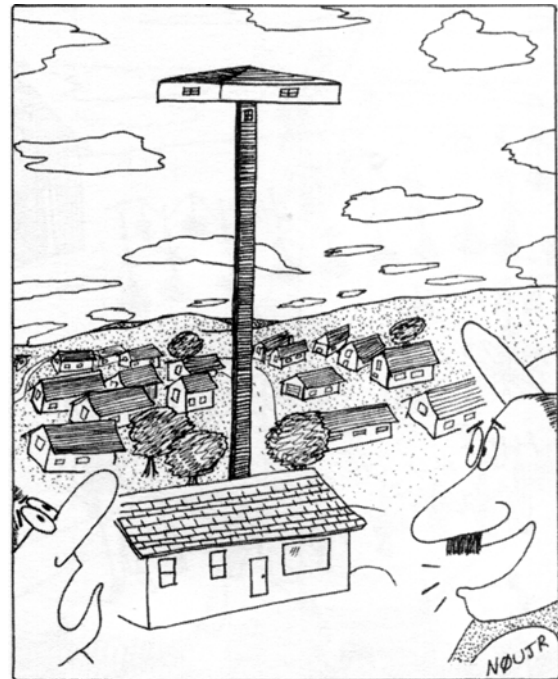
Lee Cooper, W5LHC

NØUJR and His Friends

By Greg Trook, NØUJR



"In the mid 18th Century, Dr. Simon Fuse discovers the "short-circuit effect".



"I found out that the local covenants don't allow towers, but there is no restriction on garden shed height!"

The QCWA QSO

Keith Zimmermann, K5WX

Chapter 67 has been presenting code practice sessions every Wednesday evening at 8 PM on the 146.78 MHz repeater. On December 29th, a Code Proficiency Test will be given. The purpose of the test is to provide a means to measure your progression in developing the skill of copying Morse code by hand. The code speed will begin at 3 words per minute and progress up to 35 words per minute. Five minutes of plain text at each speed will be sent.



Persons who submit one minute of perfect copy of code will receive a Certificate of Code Proficiency at the highest speed for which they qualify. You may submit text for as many code speeds as you like. However, only one certificate, at the highest qualifying speed, will be issued.

The code must be copied by hand or by typing onto a keyboard (using your own hands!). Please do not submit text that has been copied purely electronically. (Persons with disabilities that prevent them from copying by hand may request special assistance.) Complete information may be found at www.qcwa.net.

Please note that our December meeting will be at Ryan's Family Steakhouse Restaurant at Parmer and Metric. The date is December 18th at 11:30 AM. Please look for us in the small room near the front of the restaurant.

Always check the QCWA Chapter 67 web site at www.qcwa.net for meeting location and times. Remember, you don't have to be a member to attend. This is a great opportunity for folks to come together. There is also an Austin QCWA e-mail reflector at Yahoo Groups under AQCWA. Or, just call Keith, K5WX, at 258-7169 or e-mail to K5WX@QCWA.net if you have questions.

ARO/AARC Meeting Info.
Austin Repeater Organization

December 7th - Not available at time of printing

Austin Amateur Radio Club

December 14th - Christmas Party at Episcopal Church of the Resurrection at 2008 Justin Lane. See page 2 for more details!

Upcoming Amateur Exams

ARRL VEC- December 4 & January 8
 9a.m. at Murchison Middle School on North Hills Drive
 Contact Joe Makeever, W5HS (345-0800) or Joe Thiel, N5SMN (832-0450) for information. \$12 exam fee.

W5YI VEC- December 18 & January 15
 2p.m. in room 109, Fleck Hall, St. Edwards University.
 Contact Jim Greenwood, AB5EK@arrl.net, (327-6184)
<http://texasparadise.com/w5yi-austin> for more information. \$12 exam fee.

Dues are DUE Dude!

2005 is almost here and it's time to pay your dues!
 \$20 for individual or \$30 for families at same residence.
 Make checks payable to AARC. Contact Roger Wines to find out if you are paid up for next year!

Calendar of Events

Dec 3-4 6th annual SKYWARN Recognition Day Friday 6pm-10pm, Saturday 8am-5pm Larry and gang extend an offer to operate from the NWS OfficeHam station in New Braunfels- KD5UMW- "Ugly Miserable Weather"
<http://hamradio.noaa.gov>

Dec 11 Kendal/Comal Co. SET Trying HF packet for 1st time!

Dec 14 AARC Christmas Party Episcopal Church of the Resurrection, 2008 Justin Lane. \$7 per person in advance before Dec. 7 or \$10 per person at the door.
www.austinhams.org/xmas2004.html

Dec 13-23 Trail of Lights at Zilker Park TCREACT Parking Passes for the usual Stratford Dr. Parking lot, PLEASE be generous with your time. Please send names, call signs, e-mail addresses from any who wish to help Stu KC5CFQ
sdeluca@austin.rr.com

Dec.	Jan.	Austin Meetings/Happenings
7	4	ARO Meeting, Marimont Cafeteria 7:00p.m.
11	8	Austin QRP, Alvin's Sandwich Shop* 11:00 a.m.
14	11	AARC Meeting, ARL Auditorium 7:00 p.m.
21	18	ATV Club Meeting, Marimont 7:00 p.m.
18	15	QCWA Meeting Ryans Rest. 11:30a.m.
27	24	Travis Co. REACT Denny's on Burnet 7:00 p.m.
No	25	Travis County A.R.E.S., Marimont 7:00 p.m.

*New meeting location and time, Alvin's Sandwich Shop 12200 Research.

Visitors are welcome whether they are licensed hams or not. Other meetings or activities are listed under the headings for Calendar and for Periodic Events.

Non-Profit Organization
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