

AARC OVER

Bulletin of Austin Amateur Radio Clubs

Austin Amateur Radio Club
 Austin Amateur Television Club
 Austin Repeater Organization

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The Austin Amateur Radio Club, Jesse Copeland, W5TQ, 2005 Memorial Scholarships

The Scholarship Board is announcing the Scholarship program for 2005, open to Austin Area Amateur Radio Operators of any license class. Starting November, 2004, potential applicants request an application from Austin Community Foundation (ACF) [They are listed in the Business Telephone pages 472-4483]. Amy at the Foundation is most familiar with the Austin Amateur Radio Club W5TQ Memorial Scholarship Program, and can help you with application questions. The form is pretty standard re past grades, extra curricular activities, etc. The timetable is, that Jan. 31 closing of applications submission was picked to allow us to process and promote the winners by the May high school graduations. A copy of your Amateur License MUST accompany the application to ACF.

Once ACF collects applications, typically by January 31, Amy forwards them to the Board Chairman, Jim Neely, and the Board then meets to collectively read the applications and rank them, as well as to hear the yield on the prior year's investments. It is the interest on the investments made by ACF for AARC, that runs the program. If funds are available, usually a four year college degree applicant would get \$2000, and a two year program applicant in town would get somewhat less. If enough funds are available, it is often possible to admit all that apply to the Program. (They must reapply each year to continue

(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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2004 Christmas Party December 14th!

By Mitch London KD5HCV

There comes a time each and every year,
When friends gather and songs are sung,
To the victor of the QLF contest this year,
With fancy footwork, they are number one.

The location of the party this year changed,
2008 Justin Lane just off Burnet Rd. is where.
Party starts at 6pm and all has been arranged,
Please bring a dessert for us all to share.

Door prizes, door prizes, door prizes galore,
Register early and you'll get 2 tickets more.
The party cost won't knock you on the floor,
\$7 in advance each or \$10 at the door.

December 7th is the latest to register early,
You don't want to be the last one surely?
Make your checks payable to AARC
Put them in the mail addressed to me.

Mitchell London
5601 Lewood Drive
Austin, TX 78745

Be sure to check our web site for the latest,
Worker signup sheets will be given out.
With all your help, the party will be the greatest,
Show up at the next meeting and fill one out.

Thank you for taking time to read this note
If you have questions, please let me know.
kd5hcv@arrl.net is my e-mail address,
To you all this season, I wish my very best!

Ham Radio Volunteer Exam Results

ARRL VEC – The following is a summary of the ARRL VE test session held at Murchison Middle School on October 9th, 2004:

Technician Class License Processed

Jeffrey C. Dunnihoo

Examiners Participating in this Test Session

Milt Cram, W8NUE Curt Goodson, W4QBU
Jerry Jackson, N5UJ Joe Makeever, W5HS
Jimmy Mercer, N5WDH Ron Parsons, W5RKN
Lori Schmidt, KM5MQ

Next Two ARRL VE Test Sessions

November 6th - Murchison Middle School
December 4th - 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 October 16th session:

Extra Class –

John P. Lube, WA5KGW Michael S. Temple -new-

General Class –

Technician Class (all new licensees) –

Angelo B. Bianchini Dahlia Y. Flores
Sang-Chul Oh Patrick W. Webb

Our volunteer examiner were:

Hugh Brown, NT5O Jimmy Mercer, N5WDH
John Fisher, K5JHF Sam Mihalik, KM5MY
Lloyd Goehring, N5TO Dennis Murphy, W5KQF
Jim Greenwood, AB5EK Roger Pfluger, AC5IP

Our next two sessions: November 20th, 2004 and December 18th, 2004 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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Austin Repeater Organization, PO BOX 4739, AUSTIN TX 78765-4739 Web site: <http://www.austinhams.org>

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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) Scholarship

to receive a Scholarship). The Scholarship is sent direct to the Financial Aid office of the institution, to apply to any and all college or course expenses. They funds can be used for books, tuition, fees, and in cases of disability, special transportation costs at the College, (i.e., taxi to class for sight impaired).

Another class of course that has been supported by the W5TQ Scholarships is the Continuing Education Course. The application should be completed and license copy submitted to ACF as early in the year as possible before the course. These are funded after four and two year College courses, if funds permit.

For questions on suitability of courses for Scholarship support, contact the Board. See Joe Fisher, Joe Canfield, or Stuart Rohre, or Marie Vanderweele at club meetings.

The Scholarships are funded from the investment of a generous bequest by late AARC Club Member Jesse Copeland, W5TQ, (SK) Jesse and his wife had no children to receive their estate; thus wished Austin area Amateur Radio to be the beneficiary. To honor Jesse, AARC set up the Scholarship board and the investment in Austin Community Foundation to administer the funds.

The Jesse Copeland Scholarships are among the largest made available to Amateur Radio Operators nationally. Grades and course goals and holding an Amateur Radio License are the qualifications required. ■

CLUB MINUTES

ARO Meeting, October 4, 2004

The meeting was called to order at 7:10pm by President Jeff Schmidt, N5MNV, at the Marimont Cafeteria on 38th at Guadalupe.

Visitors: Lori's, KM5MQ, brother Rick visited with us tonight. Thomas Visel, x-KE5CAM, has a new call – NX1N. Jerry Jackson, N5UJ, is back from his travels.

Monthly Drawing Winner: Joe Fisher, K5EJL, won the door prize, a \$12 coupon to Frank's Lake View and Anchor Club.

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

Treasury Report: Treasurer Roger Wines, W5WIA, reported a bank balance of \$1961.50.

Technical Committee: Jeff, N5MNV, mentioned that the 224.8 repeater has some kind of trouble, and the 146.94 machine has a low rumble.

Old Business: None.

New Business: Several items were brought up. Mitch London, KD5HCV, did some research on banners across Austin roadways. The cost is \$305 per location with a \$20 review fee. There are 65 locations in Austin to choose from. There are at least 5 companies in town who can make these banners. This idea was floated for future Radio Roundup purposes. Mitch also asked if any would be interested in ball point pens with the AARC logo. He can get 500 for \$125.

Stuart Rohre, K5KVH, mentioned that wristwatches with the club or ARRL logo can also be bought for about \$10 each.

Roger Wines handed out receipt forms for donations to the Radio Roundup.

Web Site: Nothing to report.

Ham of the Month: President Schmidt accepted the motion from Stuart Rohre to nominate Bob Morgan, WB5AOH, as Ham of the Month for his recent work at the Red Cross chapter. All agreed. Bob did some good work installing new antennas on the tower.

Equipment Loaner Program: Curt Goodson, W4QBU has the club's MFJ259B antenna analyzer. He replaced the batteries with some extra NiMH cells that Smokey had. 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, N5MNV, announced that the Ham Slam class given over the weekend of September 27/28 was a great success. Ten of the 11 students passed their Technician exams, and just about all tried the General exam. Lee Cooper, W5LHC, John Suchyta, KG5O, and Lori Schmidt, KM5MQ helped out with the class. Jim Greenwood, AB5EK, and the W5YI VE team graciously hosted the exam session on Sunday afternoon. Look for new calls KE4CQL through KE5CQU.

Dallas Mellichamp, KD4HNX, announced that they still needed volunteers for the Outlaw 100 bike ride this coming Saturday. This all day

(Continued on page 7)

FCC ADOPTS NEW BPL RULES, ACKNOWLEDGES ITS INTERFERENCE POTENTIAL

Taken from The ARRL Letter Vol. 23, No. 41 October 15, 2004

As expected, the FCC this week adopted revised Part 15 (unlicensed services) rules to specifically regulate broadband over power line (BPL) systems. Meeting October 14 in open session, the Commission adopted a Report and Order in ET Docket 04-37. In comments before voting, three members of the Commission, including Chairman Michael Powell, specifically cited the concerns of Amateur Radio operators and expressed either assurances or hope that the new BPL rules will adequately address interference to licensed services. Republican FCC Commissioner Kevin Martin mentioned Amateur Radio's and broadcasters' interference concerns in a written statement. ARRL President Jim Haynie, W5JBP, said he was encouraged to see the Commission acknowledge interference to amateurs as a genuine issue in the proceeding.

"What the League has done in the last year and a half on this issue showed in the Commission's public meeting today," Haynie said Thursday. He cited the FCC's approval of three major points that the League had been pushing for: Certification of BPL equipment instead of verification, a requirement for a public BPL database--something the BPL industry did not want--and mechanisms to deal swiftly with interference complaints. Haynie conceded, however, that the devil is in the details of the R&O, which likely will not be made public for at least a few weeks.

Anh Wride of the FCC Office of Engineering and Technology (OET), acknowledged that Access BPL devices "pose a somewhat higher potential for interference to licensed radio services than typical Part 15 devices." But, Wride continued, "we believe the specific benefits of BPL warrant acceptance of a small degree of additional risk, and that this interference potential can be satisfactorily managed."

Commissioner Michael Copps, a Democrat, said he remains concerned about interference to Amateur Radio users. "I take the concerns of this community very seriously and believe that the FCC has an obligation to work hard to monitor, investigate and take quick action, where appropriate, to resolve harmful interference."

Copps said if interference occurs, "we must have a system in place to resolve it immediately," and he expressed the hope that the new rules would include such "rapid turnaround" provisions. Copps, who dissented in part with the R&O, raised the question of whether utility ratepayers should have to "subsidize an electric power company's foray into broadband."

The Commission's other Democrat, Jonathan Adelstein, said the interference question made the proceeding a challenging one because it had to accommodate concerns raised by Public Safety licensees, federal government users and Amateur Radio operators. "These are important services that we need to protect from harmful interference," Adelstein said.

Adelstein also said that while it's clear that some BPL systems can co-exist with existing licensees, others "haven't fared so well." He said those systems shouldn't be deployed commercially until it's assured that they won't cause harmful interference.

Commissioner Kathleen Abernathy, a Republican, said the FCC had to "make some hard compromises" to deal with questions about interference. But she expressed confidence in "technical solutions."

Chairman Powell called it "a banner day" for communications in the US because, he said, BPL promises "ubiquitous service to all Americans at affordable rates." The chairman, a Republican, conceded that BPL will affect some spectrum users--including "all those wonderful Amateur Radio operators out there." Powell said the FCC has taken Amateur Radio interference concerns seriously from the start and has put protections in place "to allow that service to continue." At the same time, Powell implied that the FCC must balance the benefits of BPL against the relative value of other licensed services.

Powell said BPL's potential for the US economy "is too great, too enormous, too potentially groundbreaking to sit idly by and allow any claim or any possible speculative fear" keep the Commission from promoting adoption of BPL technology.

ARRL CEO David Sumner, K1ZZ, suggested that Powell was overstating the necessity of yet another broadband pipeline. "It's astonishing to me that the chairman of the FCC can talk about needing a 'third way' to provide broadband to consumers when multiple technologies already are available, including wireless broadband," he said.

The United Power Line Council (UPLC) applauded the FCC's action, saying the new rules should encourage BPL deployment while protecting licensed services from harmful interference. "We didn't get everything we wanted," said UPLC President and CEO William R. Moroney, who called the R&O "the result of close cooperation and compromise" with the National Telecommunications and Information Administration (NTIA) to address its concerns about potential interference.

For more information on BPL, visit the "Broadband Over Power Line (BPL) and Amateur Radio" page on the ARRL Web site <http://www.arrl.org/bpl>

Smokey's Korner

By Smokey Wiley, K5RDJ

How important is it for the ham shack to be in another room, than the living room? I have found net check-ins, QSOs, rag chewing, ETC, don't set well with the rest of the household if there is a good movie on or a party to which you were not invited. You could disturb the reading of a good book while the reader is dressed in a night gown and robe with their easy chair in a reclined] position. Another item is having a ham visitor over. If your shack is in another room, you and your visitor can retire to the shack to hash things over without bothering anybody.

A lot of hams have their shack in the garage but with winter coming on, that will be another area needing heat for comfort. If you have a spare bedroom you could use that instead of being in a small building outside or the garage. A lot of us prepare a room for guests that come two or three days a year. It's your home too, so include a shack into your future plans. This doesn't mean you have to build an extra room. To place less importance on a 3rd, 4th, or 5th bedroom for your guests is the thing I'm talking about. Personally I would be satisfied with a humongus walk in closet. Why, you ask is he writing about this subject. It's in the eye of the beholder you see, because my ham shack is in the living room.

73 Smokey K5RDJ



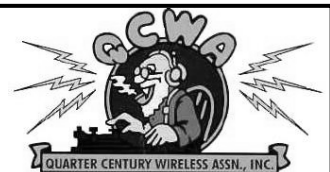
2004 Austin Radio Round Up, Nov. 5-6

On Friday is the vendor setup starting at 2:00 PM- 5:00 PM. All vendors must be setup for Friday night no later than 5:30. At that time we will close the hall to get it setup for the banquet and Casino night. There will be dinner and speaker, followed by a casino night. We will also be holding a silent auction. On Saturday the swap meet opens at 8 a.m (Setup begins at 7:00 am) and runs until 2:00 pm. We will have raffles throughout the day and a Grand Prize Drawing at 1:00 pm. There will be tailgating outside in the parking lot available. Spaces are free but available on a first come basis. Entrance fee is \$1.

The QCWA QSO

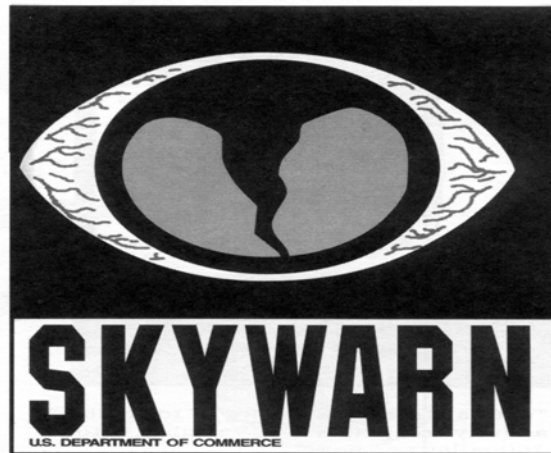
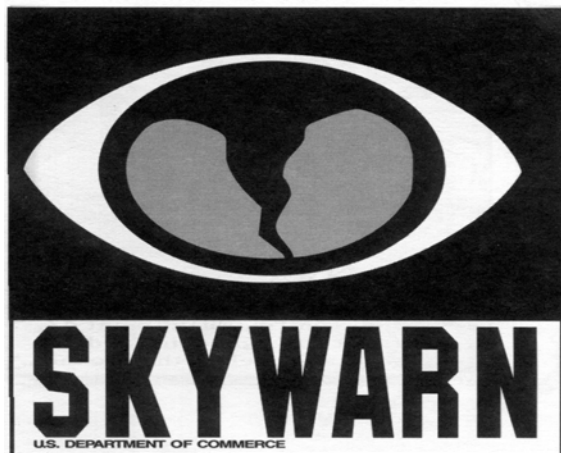
Keith Zimmermann, K5WX

The October meeting of QCWA Chapter 67 featured a great presentation on PSK31 and other digital modes by Milt Cram W8NUE. Not only did we get the theory on PSK, but we also got the "how-to" on equipment and operating procedures. Digital modes like PSK31 are incredibly efficient under low power and/or weak signal conditions. While sunspots are relatively low, this is a mode that can help you bag some DX. Milt suggested going to www.digitalham.net for over 50 links to information on digital modes for amateur radio.



Please note that our November meeting will be at Ryan's Family Steakhouse Restaurant at Parmer and Metric. The date is November 20th 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.



Logo used to identify storm spotters.

event will begin with a meeting at Denny's. Pickup trucks will be supplied by the city. Hams are asked to bring mobile equipment to outfit the trucks.

Jeff Schmidt gave a brief Radio Roundup update.

Jim Greenwood, AB5EK, announced a joint SET with Travis County ARES, Bastrop County ARES, and Highland Lakes ARES on Saturday, Oct 23.

Williamson County ARC will hold a Technician class from Oct 23 through Nov 13 at the Round Rock Central Fire Station.

The business meeting was adjourned at 7:54pm.

Program: Bob Ripley, W5EMC, presented Electro-Magnetic Compatibility – EMC or getting along in an RF world. Bob owns and operates Austin EMC and provides testing and measurement services for those who need to comply with FCC Part 15 rules, among others. Bob presented various methods that he uses to measure and calibrate antennas and frequency standards. He is available for EMC problem solving.

Bob showed numerous pictures of his lab equipment and facility. He has an incredible amount of diagnostic and measurement equipment. He performs antenna testing in an outdoor range. Indoors, he has a temperature chamber and a large shielded room. Take a tour of his facility at austinemc.com.

Submitted by John Suchyta, KG5O ARO Secretary

Austin Amateur Radio Club Meeting Minutes - October 2004

Meeting was held at ARL Labs, 10001 N. Burnet Road, Austin TX. The meeting was called to order at 7:15 pm by club president John Suchyta, KG5O.

Visitors / New Members /New Calls: There were no new members or visitors present tonight.

Door Prize: Jim Greenwood, AB5EK, was present and won a nice lamp that straps on to your head.

Minutes: The minutes of the meeting as published in the September AARCover were approved. Joe Fisher, K5EJL made the motion and Jeff Schmidt, N5MNW seconded it. All approved.

Treasurer Report: Roger Wines, W5WIA reports that the current balance is \$2346.56.

He also encouraged all to go to www.austinhams.org and register for the Austin Radio Roundup dinner banquet and Hamfest.

Secretary: No Report **Committee Members:** No Report

Programs: Rick Kirchof, KD5ABM stated that he is looking for ideas and suggestions for topics for future meetings. If you have something you would like us to present, please get with Rick.

Other reports: *Jeff Schmidt, N5MNW* announced that he has collected all the parts for the old WX Node here in Austin and the club now has a functioning Packet system available for loan from the equipment library. *Joe Fisher, K5EJL*, announced that they were about ready to pull cable for the club station at LBJ high school. He also indicated that the club operated many days between 10:30 and 12:30 am on 14.260 /14.265 mhz.

New Business: Officer Elections are coming up in November. ALL positions are open for nomination. Please get any nominations you may have to Stuart Rohre, KK5VK quickly. This is a GREAT opportunity for new folks to step up and be counted. The club is for all members and all members should consider running for an office at least once. *The Xmas party* will be held on December 14th. This is the second Tuesday in December. **There is a change of location this year.** It will be held at the Episcopal Church of the Resurrection Parish. The church is located at 2008 Justin Lane, off of Burnet Rd. Tickets will be \$10 /\$15 couples and pot luck dessert is suggested. Mitch London, KD5HCV, also asked the club to consider increasing the amount to be spent on the door prize to more this year since we will see some significant savings with the location change. *Radio Roundup* is on schedule for November 5th and 6th. There will be a casino night attraction at the Friday night banquet. Volunteers are needed to be dealers and work the tables. Dinner, silent auction and more! Please contact Roger Wines, W5WIA. For details go to www.austinhams.org BTW, you can register online there for the banquet and for tables for the Saturday swap fest. *WCARC* is holding a technician class at the Round Rock #1 fire station (203 Commerce, Round Rock) starting on Saturday October 23rd, 2004. It will run in the mornings from 8:00 until Noon. There will be an exam on location on the 20th of November.

Presentation: The presentation was by Rick Kirchof, KD5ABM on Oscilloscope Tips and Tricks.

Respectfully Submitted, Lee Cooper, W5LHC

ARO/AARC Meeting Info.

Austin Repeater Organization

November 2 - Thomas Visel, NX1N, (formerly KE5CAM) will present "Designing Microphones and Their Similarities to Antennas" Thomas is a recent addition to the Austin clubs and has just returned from Microwave Update in the D/FW area.

Austin Amateur Radio Club

November 9 – Ronny Risinger, KC5EES, will talk about "The future of ARRL and kids" He'll have some pictures of his recent trip to ARRL headquarters and tell what they had to say about their future. Ronny is a teacher at LBJ science academy and is cooperating with the AARC on a "big project" rollout at LBJ high school.

Upcoming Amateur Exams

ARRL VEC- November 6 & December 4
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- November 20 & December 18
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.

Calendar of Events

Nov 5 Dinner Banquet/Casino Night Austin Radio RoundUp
6-10PM St Louis Catholic Church 7601 Burnet Rd, Wozniak Hall Mood Music, Casino Party, Good Vittles and a Guest Speaker \$15 sgl-\$25 couple- Includes Saturday entry and SIX raffle tickets each!

Nov 6 Austin Radio RoundUp AARC-ARO Hamfest 8AM-1PM tables-\$10/\$15 St Louis Catholic Church 7601 Burnet Rd, Wozniak Hall \$1 door fee, Grand Prize TBD
www.austinhams.org/swapfest.html Jeff N5MNV@arrl.net or Lori KM5MQ@arrl.net 512-255-6753 Register online-
www.austinhams.org/registration.htm

Nov 13 Tri-County ARC & City of Azle DPS Swapfest-
www.wc5c.org/ David KB5YLG@yahoo.com 817-444-5165

Nov 13 South Texas ARC Swapfest- Corpus Christi, TX
www.n5crp.org Mark Mireles, AD5CA n5crp@arrl.net 361-855-9634

Nov.	Dec.	Austin Meetings/Happenings
2	7	ARO Meeting, Marimont Cafeteria 7:00p.m.
13	11	Austin QRP, Alvin's Sandwich Shop* 11:00 a.m.
9	14	AARC Meeting, ARL Auditorium 7:00 p.m.
16	21	ATV Club Meeting, Marimont 7:00 p.m.
20	18	QCWA Meeting Ryans Rest. 11:30a.m.
22	27	Travis Co. REACT Denny's on Burnet 7:00 p.m.
23	No	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
U.S. Postage Paid
Austin, TX
Permit No. 2942
Time Value Newsletter

ARCOVER
Austin Amateur Radio Club
Box 4739
Austin, TX 78765-4739
November 2004
Return Service Requested