



AARC OVER

Bulletin of Austin Amateur Radio Clubs

Austin Amateur Radio Club
Austin Amateur Television Club
Austin Repeater Organization

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Issue 7-2004

The Mirror of Your Smile

Rick Herndon, K5FNI

I use my Palm in my amateur radio activities, from writing notes on my projects, to entering the current contents of my scanner's memory channels (just in case the battery should die), to making 'wish lists' for the next swap fest, to setting alarms to remind me for ARES nets and club meetings. I've even taken notes on a meeting (I'm secretary of the Bastrop County club) using an external keyboard.

Every once in a while, it is time for 'Old Paint' to be replaced by a newer steed. The first one I had was a Palm 5000 (upgraded to a Palm III by a replacement board inside the back door), then, I got a real Palm III. Recently, I got a Palm 105 that gave me 8 Mb vs. the meager 2 Mb of the III. All my other replacements were fairly painless. This one has not been so easy. Each time I'd replace the old machine, I'd do one last synchronization with the desktop, then put in the new machine with blanked-out memory and say it was the name of the old one (never to synch the old one again). This time, the synchronization did not net me the same results. I'd long ago won some software (Intellisync) that allowed me to synchronize data with programs that suited me more than the Palm desktop software. The software failed with my new machine. So, I was stuck trying to get data from one Palm to the other some other way. I decided to transfer the data by the infrared (IR) bi-directional link software built into the devices. Normally, that requires putting the two 'head to head', so they each see the other's IR port.

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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 Pracice	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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(Continued from page 1) *The Mirror of Your Smile*

Knowing I would spend quite some time at this effort, I didn't want to do that. So, my innovation tonight was very, very simple. I just got out a stainless steel mixing bowl from the kitchen cabinet and turned it upside down and put it in front of the two devices, which I placed side-by-side on the table. Putting the bowl about 3 inches away gave me enough reflection to make the IR transfer without being critical as to where the Palms were aimed. Maybe everyone else has thought of this, but the one person I've told about it so far thought this was a great idea to pass along. So, here it is, if you ever need it. This should also work with laptop computers talking to printers with IR links. Heck, maybe it would even allow you to control the TV around the corner! <g>

CLUB MINUTES

AARC Meeting, June 8th, 2004

The meeting was called to order at 7:20 pm by President John Suchyta, KG5O, at the ARL Labs on 10000 N. Burnet Road, Austin Texas

Visitors: Janelle Wilt, KC7WLO and Kevin Kane, AD5RA visited us tonight.

Monthly Drawing Winner: Stuart Rohre, K5KVH won the door prize, a nice collection of connectors. You too can be a winner! Just become a member or renew your membership and come join us every second Tuesday.

Minutes: The May 2004 AARC meeting minutes were approved as published in the AACRCOVER. The motion to approve was made by Jeff, N5MNW and seconded by Lew, W5IFQ.

Treasury Report: No report this month

Technical Committee: There has been a new controller put on the 146.78 repeater. It has a DVR on it so we can record messages. For club info, key up and press dtmf 22 on your keypad and it will play the message. 4* will list any messages available.

Committee Reports:

Membership committee: No report.

Announcements: *Rick Kirchof*, KD5ABM announced he was trying to get a tour lined up at one of the Austin Energy power plants. Details forthcoming.

Stuart Rohre, K5KVH reminded us of the Field Day /VHF QSO contest at Anderson High this coming Saturday,

(Continued on page 5)

Ham Radio Volunteer Exam Results

ARRL VEC – The following is a summary of the ARRL VE test session held at Murchison Middle School on June 5th, 2004:

Technician Class Licenses Processed

Robbin E. Chapman Gerald W. Creamer, Jr.
Vera E. McArthur James L. Rabideau

General Class Licenses Processed

Donald M. EdwardsKC5DJO Jonathan N. NallKF6UKP

Extra Class Licenses Processed

Robert D. MC LarenKD5YRD John D. WilliamsKE5BJD

Element 4(Extra Class written) CSCE Processed

Benjamin F. StewartKD5WRO

Examiners Participating in this Test Session

Bill BrewerK5KNC Jim LindleyK5EWS
Joe MakeeverW5HS Jimmy MercerN5WDH
Tom NevueW2MN Herb NolenW5HMN
John StottAC5ZT Roy WalkerWA5YZD

Next Two ARRL VE Test Sessions

July 10th - Murchison Middle School August 7th - Red Lion Hotel (ARRL Texas State Convention)
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 June 19th session:

Extra Class –

John W. Meaker, KR4AH Jonathan N. Nall, KF6UKP
Benjamin F. Stewart, KD5WRO

General Class –

Carroll H. Rabel, Sr., WA5BKT Carl Shropshire, KA5GUD
Robert A. Vassar, KC6OOM

Technician Class (all new licensees) –

Steven W. Cornett Jay W. Loucks
Thomas E. Miller Stewart D. Morrill
Jonathan R. Villanueva Tena Wang

Two other applicants earned element credit without upgrading.
Our volunteer examiner were:

John Fisher, K5JHF Jimmy Mercer, N5WDH
Lloyd Goehring, N5TO Sam Mihalik, KM5MY
Jim Greenwood, AB5EK Dennis Murphy, W5KQF
Tony Lyon, KJ5XF Bill Montgomery, K5ZSI

Our next two sessions: **July 17th and August 21st**, 2004 at 2 PM in room 109 of Fleck Hall on the campus of St. Edward's University. Jim Greenwood, AB5EK Rick Trommer, W5RHT

New General Question Pool went into effect July 1st!!!

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
Vice President	Jerry Jackson	N5UJ	832-5663	jerry@gaj.com
Treasurer	Roger Wines	W5WIA	453-2193	w5wia@arrl.net
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ARRL Public Information Officer	Roger Wines	W5WIA	453-2193	w5wia@arrl.net

Austin Repeater Organization, PO BOX 4739, AUSTIN TX 78765-4739 Web site: <http://www.austinhams.org>

President	Jeff Schmidt	N5MNW	255-6753	n5mnw@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.

FIELD DAY.....

.....costs are more every year. We do not budget a lot of our funds to field day, and need a little help with expenditures. Since announcing the need for donations, already in hand is \$50, with anticipated more amounts coming. If you have the ability to donate to our one primary field 'test' day a year, please make your checks to AARC with a note "Field Day" on the check. An extra 50, 20, 10 or even a 5 will help. Your generosity is greatly accepted by your officers in this time of support. (cash is acceptable)
.....AARC officers

HAVE YOU WONDERED?

Roger Wines, W5WIA

New Members are beginning to come in after only a few days of the contest. Great going guys (& gals). Keep it up. When scouting for new members, and there are several 'hams' out there not members of the club, do not overlook anyone.

The most recent new members are from - Austin - 14; Cedar Park - 2; Elgin - 2; Hudson, OH - 2; RoundRock - 1; Wimberley - 1; Pflugerville - 1; College Station - 1; Dripping Springs - 1; Bastrop - 1; and Lago Vista - 1. All but 2 gave their e-mail address. 10 of the 27 joined ARRL at the same time. 22 of the 27 are ARRL members. And age nor year of first license matters either. The year these were licensed range from 1958 to 2004, with 2003 having the most (7).....W5WIA - (Treas.)

Austin QRP Club Has New Meeting Location

Glen Reid, K5FX

The AQRP Club is moving its regular, second Saturday of the month meeting to Alvin's Sandwich Shop, 12200 Research Blvd. John Fisher, K5JHF, owner of Alvin's is kindly allowing use of his restaurant for our 11 AM gathering. Join us for informal discussions, show & tell and idea exchange. For more information on AQRP, see our Web site:

<http://www.qsl.net/kq5rp/index.html> or contact Glen Reid at k5fx@arrl.net.

The QCWA QSO

Keith Zimmermann, K5WX

The Quarter Century Wireless Association (QCWA) Chapter 67 will be meeting at Alvin's Sandwich Shop on Saturday, July 17 at 11:30 AM. Alvin's Sandwich Shop is at 12200 Research Blvd near Academy Surplus. It is at the corner of Hwy 183 North (Research Blvd) and Pavillion Blvd. just south of Oak Knoll Drive. We are testing various meeting locations during the summer in search of just the right place for our Saturday meetings. The Austin QRP group successfully met at Alvin's Sandwich Shop in June. There are plenty of little tables to push together for show and tell and eyeball QSO's. The sandwiches are great and there is a breakfast menu. Please watch the QCWA Chapter 67 web page for information about the next meeting. The web page is at www.qcwa.net. Please call or e-mail Keith, K5WX, if you need more information. His phone number is 258-7169 and e-mail address is k5wx@arrl.net.

Over the WWWaves... Variety of interesting websites found and received.

Found out about this today. It may be something for churches, groups, etc. to look at.

<http://www.makestickers.com/>

All kinds of weather facts about Texas

<http://web2.iadfw.net/danb1/records.htm>

Whew! I thought this was some Sideband strangeness until it hit me what this meant. <g>

<http://www.eham.net/articles/8300>

June 12th from 9am-12pm

Joe Fisher, K5EJL gave a report on the progress of the "Big Project's" efforts at getting a tower setup at LBJ High School and on plans on teaching a ham radio class there as part of the curriculum this next school year.

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

Old Business: None

New Business: John Suchyta, KG5O following a published announcement in the AARCover proposed creating a Student membership for any ham under 18 and still in High School. The membership fee would be \$5 per year but would not receive a mailed copy of the newsletter. Stuart Rohre, K5KVH made the motion, Lew Thompson, W5IFQ seconded it and it passed unanimously.

Web Site: The website, austinhams.org, has current information, the latest Swapnet and the current AARC/over online. Check us out

Meeting adjourned at 7:45 PM

Program: We setup the computer logging and some actual equipment to be used at Field day for all to see and ask questions.

ARO Meeting, June 1, 2004

The meeting was called to order at 7:05pm by President Jeff Schmidt, N5MNW, at the Marimont Cafeteria on 38th at Guadalupe.

Visitors: Rod, no call, cousin of one of the members, visited with us tonight.

Monthly Drawing Winner: Jim Greenwood, AB5EK, won the door prize, a nice computer bag.

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

Treasury Report: Treasurer Roger Wines, W5WIA, reported a bank balance of \$2752.74.

Technical Committee: Jeff Schmidt reported that Ed Golla, K3AHS, repaired the 146.78 repeater controller board. Jeff mentioned that the digital voice recorder (DVR) function 22 is operational.

Old Business: None.

New Business: None.

Web Site: Nothing to report.

Ham of the Month: President Schmidt named Ed Golla, K3AHS, as Ham of the Month for his efforts in repairing the 146.78 controller board.

Equipment Loaner Program: The club's MFJ259B antenna analyzer is available. The Yaesu FT530 dual band HT is on loan. The Kenwood TS120 HF rig was traded at Belton for a TS140. The TS140 is available. Contact Lori Schmidt, KM5MQ, to reserve equipment and make suggestions for new equipment. Lori also mentioned that a variety of ham-related books are also available for checkout.

Announcements: Roger Wines, W5WIA, announced that the in-school Amateur Radio program is in need of volunteers to help with class sessions next school year.

The business meeting was adjourned at 7:34pm.

Program: Stuart Rohre, K5KVH, presented and led a spirited discussion on this year's Field Day. We are still looking for more operators. As it stands, we may only be running 1A or 2A on QRP. Ten and 15 meters are doubtful this year, so the most activity will probably be on 20, 40, and 80 meters.

We will have a shakeout session on Saturday, Jun 12, from 9am until about noon, to get familiar with the HF rigs. Bill Oakley, WA5ET, will loan us his generators for FD and the shakeout. We will need a solar charger for Field Day.

Stuart made the calculations for RF safety and decided that we should be OK with the high power station located away from the sidewalk to the field.

Stuart reminded that those bringing bugs or keys should also bring the appropriate adapters. He said that we will use the laptops with logging software, as well as the "W5WIO Quick Log", a tri-fold sheet of paper to correlate with the laptop logs. We will need to experiment with cardboard to perhaps shield the laptop displays. We still need high capacity or marine grade batteries for all stations.

Other details were mentioned that will be worked out by the club officers and activity committee.

Submitted by John Suchyta, KG5O

ARO Secretary

Smokey's Korner

When I was a kid we had terribly advanced telephone service. Yes sir, none of that old lifting the earpiece and turning the crank on the side of the wall mounted instrument for us. We dialed a sequence of four numbers to reach a particular person. None of the crank long and two shorts for us, or for that matter flipping the switch hook to attract the attention of the operator. Our number at grandmother's house where we lived was 4775. Later across town our number became 29586. This is all true because the number of subscribers was increasing at an alarming rate. Austin had a population of a little over 35,000 at that time. In fact Austin was growing so fast the telephone company had to start adding offices. The first was Homestead/Glendale in north Austin, then Hickory in south Austin. As the number of users increased it became necessary to add exchanges within each building. Well as you can see there are a lot of numbers to remember. In one office you could have five or six exchanges. Things didn't stop there, soon it became necessary to build more buildings so you have a place to house the vast amount of equipment. Greenwood used to serve all of Austin, so when the equipment out grew the building Homestead/Glendale was built. Everything in north Austin was contained in two buildings. Soon a building was necessary for everything south of the river. If you will notice on a telephone dial you have three letters on every number except the one and the zero Homestead is H-four and O-six plus the five digit number. Glendale was G-four and L-five plus the five digit number. As the subscribers grew it became necessary to build satellite offices to store the equipment. I guess I have a knack for remembering numbers so here is a list of offices as I remember them.

ANdrews 3----Beecaves
ATlas 2 Manchaca
CLearbrook 8---Jollyville
CRestview 7----Garfield
FAirfax 7 ----Beecaves rd. area
Hickory 4 south Austin
TENnyson 6----far north Austin

AMhurst 7----Lake Travis
BLackburn 9 --Leander
CLinton 1 Pflugerville
EVERgreen 5 far south east Austin
GLendale 3----north Austin W/HO
HOMestead 5---north Austin W/GL
WAlnut 6 ----far east Austin

ALpine 5---Round Rock
BUTler 8---Oakhill
COLefax 6 ---Marshall Ford
????????? Creedmore
GReenwood 2, 6, 7 Downtown Austin
TWinbrook 6 ---????????????????

There has been to many years since A.N. C. went into effect which accounts for the question marks.

Now that the numbering system is getting so complicated the company brought forth a plan called "A. N. C." or "all number Calling" came into existence, We now have seven digits. In order to call long distance you could go thru the operator by dialing zero or you could dial one direct. However in order to do that, you have to divide the world into area codes. Some cities are so large by now that they have two or three area codes. The list of numbers you have to dial now is a "1", the area code "512", then the seven digit telephone number 472-9586. That my friends is eleven digits to dial. Well the company thought that was a lot of dialing so out came pushbutton dialing or touchtone dialing. Touchtone is a registered trade mark. Now I'm sure it all makes sense.

Glendale was later done away with because you could now add exchanges in a building. When I was working at Greenwood I have seen three different conversions as the state of technology changed. When a conversion is made it becomes necessary to build another office or switch as they are called in the same building or addition, test it out, shake it down, and at 3AM on cut over date cut traffic to the new switch. Then all the old equipment is wrecked out, some is salvaged and the rest is junked.

The first offices were called magneto offices, then came common battery offices, next to arrive on the scene were step offices or electro mechanical offices. The electronic switching systems "ESS" offices phased out all the electro mechanical offices. In doing this you actually created central office space because of miniaturization. As the technology became more sophisticated even smaller equipment was created. Thus more floor space was achieved. Taxes were paid on the amount of floor space utilized but that is another story in itself.

I hope you have learned something of the growth of telephones in the Austin area experienced by me.

73 Smokey K5RDJ

MEMBERSHIP HAS IT'S REWARDS!!!

AARC and ARO MEMBERSHIP APPLICATION

For year ending December 31, 2004

APPLICATION FOR: (check applicable box and enclose payment to either)
 AARC/ARO \$20 single \$30 family (all with same mailing address)

For 'first time registrants to ARRL' – join both ARRL and the local clubs
 (a \$15 savings) (make check payable to AARC)

Local QCWA dues for the year - add \$6 to your check and indicate here

----- Bring this form with payment to the club meeting -----

NEW MEMBER – NEVER BEFORE REGISTERED (or lapsed 2+ years)

Call sign _____ First Name _____ Last Name _____

ARRL member **Y N** License class E A G T+ T N Year first licensed _____

Mail Address _____

City/St/Zip _____

Hm Ph _____ Cel Ph _____ Wk Ph _____

Pager # _____ e-mail _____

Please list additional family members here and check the family member box above.

2nd Call _____ Name _____ ARRL mem **Y N**

3rd Call _____ Name _____ ARRL mem **Y N**

4th Call _____ Name _____ ARRL mem **Y N**

I/WE have interest in the following:

- | | | | |
|--|------------------------------------|---|--|
| <input type="checkbox"/> Monthly meetings | <input type="checkbox"/> Field Day | <input type="checkbox"/> Working Events | <input type="checkbox"/> Transmitter Hunts |
| <input type="checkbox"/> Talking on 2 mtrs | <input type="checkbox"/> DXing | <input type="checkbox"/> ?Newsletter | <input type="checkbox"/> Holding Office |
| <input type="checkbox"/> Presenting programs | <input type="checkbox"/> CW | <input type="checkbox"/> Net Control | <input type="checkbox"/> Emergency Comm's |
| <input type="checkbox"/> Holding ARRL office | <input type="checkbox"/> Education | <input type="checkbox"/> Public Awareness | <input type="checkbox"/> Working w/Youth |
| <input type="checkbox"/> Others _____ | | | |

To receive credit for bringing in new member - both sign below

New Member Signature _____

Current Member Signature _____

Date of meeting ____ / ____ / ____

**HAVE
YOUR
DUES
WAIVED!!!**

CURRENT MEMBERS . . .
 bring in 1, 2, or 3 new members and be recognized in the AARCover. Bring in four (4) new members and have your dues waived for 2005. Bring in four more and waive your 2006 dues.

[Six new applications required for family memberships to be waived, or four new applications plus \$10]

A supply of forms will be available at all club functions. This form is especially designed and requires the date and both signatures for qualification. The applicant has to attend the meeting when the application is presented with payment for dues. Past members lapsed for two years or more are considered as new members.

The contest period is

May 1st to August 31st.

SIGN SOMEONE UP TODAY!!!

ARO/AARC Meeting Info.

Austin Repeater Organization

July 6 - To be announced, watch the website for the latest details

Austin Amateur Radio Club

July 10 - To be announced

Upcoming Amateur Exams

ARRL VEC- July 10 & Aug 7 ** (At Summerfest)
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 examination fee.

W5YI VEC- July 17 & August 21
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 examination fee.

Missed an Issue???

Text (only) version of the current issue can be found on the Web at ...

<http://www.austinhams.org>

You will also find a section called **AARCOVERFLOW**. It is there to put in news and articles that just missed the AARCOVER deadline. Check it out!

Calendar of Events

Jul 10 Tidelands ARS Swapfest- Texas City, TX
www.tidelands.org Joe AA5OP@arrl.net 409-945-6794
Jul 17 CTSS 1st annual BBQ/Picnic at Lake Belton all day
chase-1@austin.rr.com www.centexstormspotters.net
Aug 6-7 Austin Summerfest Texas State Convention Red
Lion Hotel Austin ARC, Austin Repeater Org., & Texas
VHF-FM Society Joe W5HS@arrl.net 512-345-0800
www.austinsummerfest.org/
Sep 11 HLARC's annual swap meet at the Pavilion in Marble
Falls Tables \$5.00 each- contact Chuck
KB5YKJ@281.com 830-693-0513
Sep 17-18 Tailgate Swapfest/Cookout Lake Murvaul, TX
Betty W5PUP@texramp.net 903-685-2365 www.k5cxo.net/swapfest.htm

Jul.	Aug.	Austin Meetings/Happenings
6	2	ARO Meeting, Marimont Cafeteria 7:00p.m.
10	14	Austin QRP, Alvin's Sandwich Shop* 11:00 a.m.
13	9	AARC Meeting, ARL Auditorium 7:00 p.m.
20	17	ATV Club Meeting, Marimont 7:00 p.m.
17	21	QCWA Meeting Owens Restaurant 11:30a.m.
26	23	Travis Co. REACT Denny's on Burnet 7:00 p.m.
27	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

AARCOVER
Austin Amateur Radio Club
Box 4739
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July 2004
Return Service Requested