

AARCOVER

Bulletin of Austin Amateur Radio Clubs

Austin Amateur Radio Club
 Austin Amateur Television Club
 Austin Repeater Organization

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Issue 08-2003

The 5MHz Band

Jeff Schmidt, N5MNV

The NTIA has allowed Amateurs Secondary status on five discreet frequencies in an interesting part of the 5MHz land-mobile band. These "channels" put us in a terrific place to (when the need arises) intercommunicate with certain services like the National Guard, Red Cross, etc. There are strict ERP power, mode & frequency limits for us on these frequencies, i.e. no Morse Code/digital is allowed & -ONLY- USB voice emissions are permitted. Power is limited to 50w ERP referencing a 1/2wave dipole antenna. If you look at the assigned frequency list, you will probably see the center of the channel assignment. This is the wackiest & hardest for most to grasp.

If using USB, you need to tune the carrier insertion 1.5kHz lower than center, so all your emissions will fall inside the 2.8kHz assignment.

Here are the assignments & where to tune for USB operation:

Channel Center Amateur USB freq

5332 kHz 5330.5 kHz

5348 kHz 5346.5 kHz

5368 kHz 5366.5 kHz

5373 kHz 5371.5 kHz

5405 kHz(US/UK) 5403.5 kHz

As secondary users of the spectrum, we must yield to Military or other primary users.

If you hear tactical call signs or digital-sounding signals, try and be a good new neighbor! Many radios are capable of operation on 5167KHz, the Alaska emergency frequency. Our ICOM 706Mk2G's and the 756 converted nicely. One thing I'd caution you on is, try low-power tests first to a dummy load. If the TX

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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) Newslines	146.94 MHz -
Mon	6:45 p.m., Hays ARES net	147.10 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+

The QCWA Relay

Bil Henson, WB5SYS

Amateur Radio is a non-profit service. It exists as the common hobby of thousands of operators who enjoy building, maintaining, improving, & operating their stations. The government regulates the operation & recognizes the public service it provides.

Each operator is in charge of their own station. There is limited infrastructure. There are no hard connections between stations, so one station going down may not affect another. The reliability of each independent station is determined by the quality and redundancy of its equipment.

Some Hams will tell you that the most basic function of the hobby is passing information. The equipment is maintained for emergency preparedness and is constantly being tested as operating methods are practiced. In the event of a real emergency, Hams are usually the first communicators responding with the most reliable equipment, often rivaling the expensive professional radio systems news media or public service departments use. There are countless documented examples of lives being saved through the use of Amateur Radio.

Amateur radio communication is a free service offered to the community through the volunteer efforts of the licensed operators. Compensation for the service is never in money, but in knowing that a job was well done.

Now for the meat and potatoes of this article. Although Amateur Radio is a service offered free to the community, the radio

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equipment is not free to the operator. His cost can be reduced if he is a good scrounger, is lucky, or is technically proficient and can repair broken equipment found at a reduced cost.

Here is a rough idea of what a new Ham can spend to get on the air. These prices are modest figures, somewhere between new and used equipment, and typical of my experience. I wouldn't dare do the math, because I don't want to know how deep I'm in. The time required to study for tests, read manuals, solder cables, program equipment, & meet nets is not mentioned here.

After passing your \$12 test, a bare-bones station would probably be a handy-talkie that would run you around \$300. The new ham will soon learn that his range is limited, and will want to spend \$40 on a mag-mount antenna. After a while, he'll want a more powerful rig for the mobile or base, & maybe have another band. A cost-effective radio will be around \$200, or if he's totally hooked, a \$500 radio with lots of power, bands, & modes will do. Don't forget to add \$50 per antenna or \$100 for a beam, and \$50 for a power supply for the base station. Now would be a good time to buy a spare battery for the HT at \$40+, and don't forget to join the ARRL and a few local Ham clubs for \$50/year. Save a few dollars for that box of adaptors, connectors, cables, & fuses. If you get interested in Packet Radio, a TNC with BBS capabilities will go for around \$150, assuming you already have a computer to use as a terminal. Along with Packet Radio comes APRS; a GPS will run you \$200. Now your location can appear on the internet (free!). If you're totally engrossed by now, you can beacon your weather report from your house. \$400 for a weather station, and the additional TNC is \$150, the dedicated radio is \$100, & a nice 5/8 whip on the roof is \$50 with coax.

Just when you get comfortable, you start to wonder about those guys with higher class licenses, bigger radios, and further capabilities. Your next license (\$12) will allow you to get on HF. A new modern rig may be acquired for \$800 and a reasonable antenna for \$100 plus hardware and maybe a tower and rotator - price not mentioned! When you get tired of tuning the antenna, a \$300 automatic antenna tuner will do it for you. You can carry this setup to the car and back for mobile operation, or simply double the price tag and have a permanent mobile station.

Since this is emergency equipment depending on commercial power, you'll eventually consider emergency power. A sizable deep cycle 12-volt battery is still a bargain at \$80. A charger for it runs about \$40, or an adequate solar array can be found for less than \$300. Honda generator - not mentioned.

This is not intended to scare anyone away from the hobby, but to demonstrate what a typical Ham's expenses can run. I have been at it for a few years now, and have run through this several times by updating HTs as they are released, supporting my museum of shelved mobile rigs, following the evolution of Packet TNCs, and stocking more than enough GPS units. I can't count the number of Ham Radio items I have on the shelf.

Compare these costs with those of other hobbies, like photography, travel, hunting or racing anything. Then compare the levels of personal satisfaction, achievement of the hobby, service to the community, and fellowship with a global community of operators. Ham Radio is an extremely rewarding hobby that is easily considered a lifestyle and very often passed on to the next generation. Isn't that what it's all about?

(Continued on page 3)

Ham Radio Volunteer Exam Results

ARRL VEC – July 12, 2003. The following is a summary of the ARRL VE test session held at Murchison Middle School on July 12th, 2003:

Technician Class Licenses Processed

Christopher E. Besch
David J. Mitchell (Technician plus HF privileges)
Warren R. Volz

General Class License Processed

Kenneth G. Keese, KD5CBM

Examiners Participating in this Test Session

Bill Brewer, K5KNC Joe Makeever, W5HS
Tony Davee, KM5JH Tom Nevue, W2MN
Larry Gunter, WB5BEK Herb Nolen, W5HMN
Jerry Jackson, N5UJ Rick Trommer, W5RHT
Jim Lindley, K5EWS

Next two ARRL VE Test Sessions:

August 2nd - 12:30PM @ Red Lion Hotel (SUMMERFEST)
September 6th - 9:00AM @ Murchison Middle School

W5YI-VEC– 7/19/2003

The July 19th session resulted in the following license applications being processed:

Extra Class –

Michael N. Beu, KD5DSQ David B. Rivenburg –new-

General Class –

Nathanael W. Hein, KD5LHK

Technician Class – all new licensees

David K. Harms Joel P. Jordan
Richard E. Kirchhof Robert D. McLaren
Beverly J. Wills

Another applicant earned element credit w/o upgrading.

Our volunteer examiners were:

Hugh Brown, NT5O Jimmy Mercer, N5WDH
Lloyd Goehring, N5TO Dennis Murphy, W5KQF
Jim Greenwood, AB5EK Roger Pfluger, AC5IP
Tony Lyon, KJ5XF Rick Trommer, W5RHT

Our next sessions: August 23rd and September 20th, 2003
2 PM in room 109 of Fleck Hall on the campus of St. Edward's University
Information contact: Jim, AB5EK at 327-6184 or ab5ek@arrl.net Visit our web site at:
<http://texasparadise.com/w5yi-austin/>

Exam fee is now \$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.

(Continued from page 2) QCWA

The next meeting of QCWA will be on Saturday, August 16th. The location will be at "Bevo's Restaurant on North IH35 at 11:30 AM. (This was the Jim's Restaurant. It is just past the Red Lion Hotel and Owen's Restaurant.) All are welcome to come. Watch www.qcwa.net for details.

Current information is always available at our own Web site: www.qcwa.net. 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. (Every member is eligible for a special e-mail address linked to their permanent address!) ■

Club Minutes

ARO Meeting, July 1, 2003

The meeting was called to order at 7:15pm by President Jeff Schmidt, N5MNV, at the Sirloin Stockade on North Lamar.

Visitors: No visitors.

Monthly Drawing Winner: Several prizes were awarded to those who correctly answered questions regarding the new 5MHz band. Alan Russell, no call, won a General License Study Book. Rick Herndon, K5FNI, won a Yaesu log book. Joe Thiel, N5SMN, won the General Question Pool book.

Minutes: The June 2003 ARO minutes were approved.

Treasury Report: Treas. absent, no report was available.

Technical Committee: President Schmidt mentioned that the ARO Board of Directors discussed the recent 146.94 repeater problems and that Nick Broline has been notified.

Old Business: The noise committee, headed by Stuart Rohre, K5KVH, reports next month on their search for a noise tracker.

New Business: Nothing to report.

Web Site: The AustinHams.org site is now updated with the latest SwapNet information.

Austin Radio Roundup: No update.

Ham of the Month: President Schmidt asked Stuart Rohre to introduce the July Ham of the Month. Stuart announced that Jim Greenwood, AB5EK, received the honor for his excellent Field Day support of the 40m station over many hours. Jim logged 137 QRP contacts on 40m SSB.

Equipment Loaner Program: The club's MFJ259B antenna analyzer is out on loan. Contact Lori Schmidt, KM5MQ, to reserve equipment and make suggestions for new equipment.

Announcements: Joe Makeever, W5HS, gave a brief update on Austin Summerfest which will be held on August 1 & 2 at the Red Lion Hotel. This year's event features the ARRL West Gulf Division Convention. As such, ARRL president Jim Haynie and state section managers will attend. Joe asked for volunteers to help with the ARRL table.

Lee Cooper, W5LHC, mentioned that the Bearcat digital scanners that were presented a couple of months ago will not be able to decode the new Travis County 800MHz trunked system. He spoke with the manufacturer and found that such a decoder is not available yet. So those who were interested in the scanner and its expensive digital card should put off the purchase until the appropriate scanner is available.

Rick Herndon, K5FNI, announced that Radio Shack was discontinuing the HTX10 10m mobile rig and had a few left at \$40 each, originally listed at \$150.

Stuart Rohre, K5KVH, provided an initial point total for Field Day. He mentioned that Glen Reid, K5FX, brought well-known British ham Graham Firth, G3MFJ, to Field Day this year. Graham said that the UK has nothing like Field Day. Stu also thanked Joe Fisher, K5EJL, for cooking up the BBQ brisket, ribs, chicken and sausage.

The meeting was adjourned at 8:00pm.

Program: Alan Russell showed part 1 of a PBS special on the invention of radio entitled "Empire of the Air: The Men Who Made Radio". Part 2 will be shown at the AARC meeting. You can get more information on this show on the PBS web site at www.pbs.org/kenburns/empire/.

Submitted by John Suchyta, KG5O
ARO Secretary

Austin Amateur Radio Club meeting on July 8th, 2003

The meeting was held at the Sirloin Stockade at Lamar and Koenig Lane. The meeting was brought to order by club president, John Suchyta, KG5O at 7:15 PM

New Members / Visitors: There were several KD5YEM, KD5VHS, KD5FJF, & KD5JOX

Door Prize: The monthly door prize drawing was won by Stuart Rohre, K5KVH. It was some Velcro straps.

Special Business: The revised wording to the club by-laws, as published in the AARC/Over and on Austinhams.org were discussed and brought up for vote. The changes included wording that was needed to facilitate the club applying for 501(c)3 tax free status. The changes also move the election of club officers to November rather than December. This is to allow the incoming officers and outgoing officers a month long transition period to pass over projects and work out details for the upcoming budget. The amendments also eliminated the position of Activities Manager as an elected position and allows for the officers to appoint chairs to various events instead. It also requires the budget for the upcoming year to be presented at the January meeting. Both a voice and hand vote was taken. The yeas were unanimous and the motion passed.

Officer Reports:

Vice-President: - Mitch London, KD5HCV is seeking speakers for upcoming meetings. If you would like to do a presentation or know of something he should pursue, please contact him.

Treasurer: - No Report

Activities Manager: - Stuart, K5KVH did a report on the Field Day interim results. These are early reports and have not yet been finalized. Stuart discussed the sunspot levels and how they impacted us this year. For example, Last year the activity index was at 165.3, Two years ago it was at 164.8 and this year it was only 107.3. Since a higher number is better for propagation Stuart points out that we were at a disadvantage from this year's index. He also indicated that the bands shut down for a large part of the event, particularly 20 meters which was dead 16 out the 24 hour contest.

Lew Thompson, W5IFQ then discussed the QRO station that was put on this year, the first time for a number of years that we have had QRO. In the 24 hours of operation there were six different operators that worked the station. They racked up 1310 points doing CW, Digital and Voice across several bands.

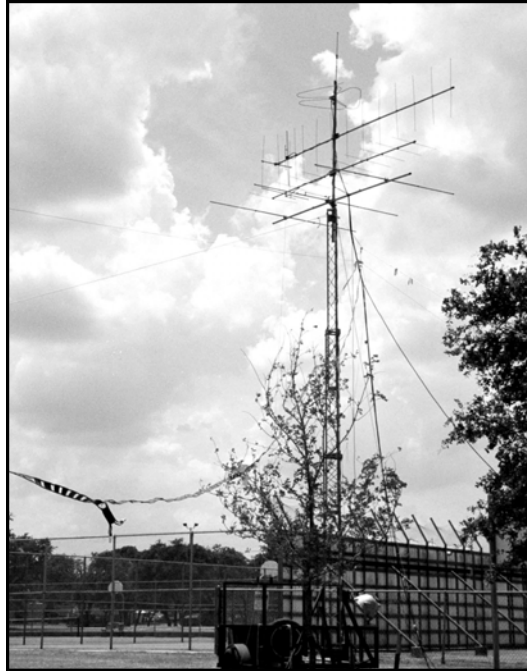
Stuart suggested everyone give themselves a round of applause for a job well done & another Field Day under our belts.

New Business: There was no new business brought up.

Announcements: Lee Cooper, W5LHC reminded folks of the upcoming SET on July 29th, The packet class being held on the 12th of July and the New EOC tours on the 12th and 19th of July.

Field Day

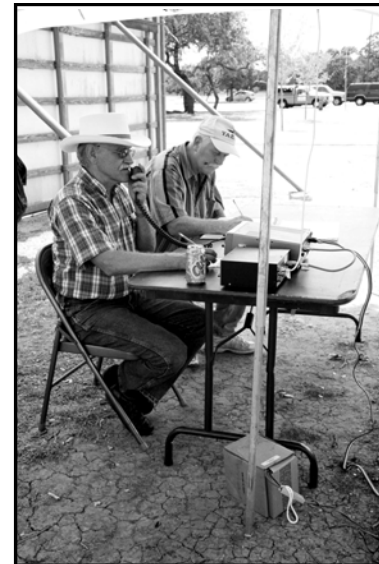
W5TQ



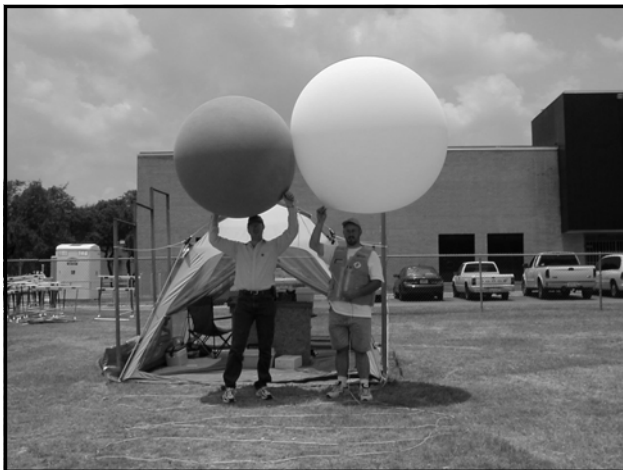
The W5TQ tower. The tower was home to at least 6 antennas, including 2 meter, 440, 6 meter, HF and more!



KXAN's Jim Bergamo interviews Jeff Schmidt, N5MNV, about Field Day.



Charlie Gunn, KE5AY & Dave Roberts, KC9CDR work 40 meters.



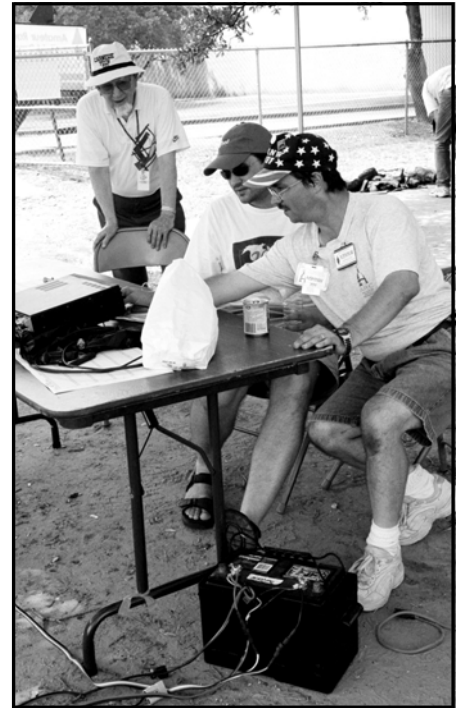
Alan Russell, no call, and Mitch London, KD5HCV prepare to raise their Helium filled balloons which lofted a 100 foot long wire antenna for 10 meters.



Stuart Rohre, K5KVH, Jim Rudd, W5SIO, Milton Cram, W8NUE and Mike Albritton, N5LUQ stand inside the 20 meter tent.



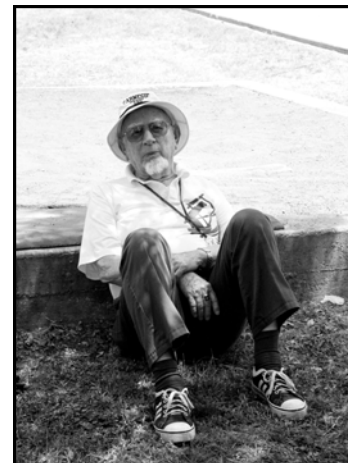
Tom King, WK5DX and John Suchyta, KG5O, work hard to get contacts on 10, 15 and 80 meters.



Steffan Muller KD5RAH, & Jeff Schmidt, N5MNW work the VHF/UHF station while Bracken Cox, no call, watches.



Joe Fisher III, K5EJL, keeps a watchful eye on the most important station...BBQ!



Bracken Cox, no call, takes a break.



Jim Rudd, W5SIO near the solar charger.



Pete Jordahl, K5GM and Lewis Thompson, W5IFQ take a break at the W5KA station.

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

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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>

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Transmitter Hunt Coordinator	Mickey McInnis	WX5U	339-0344	mcinnis@austin.ibm.com
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 Newslines @ 9p.m. Sunday; 224.80 MHz (-1.600); 444.10 MHz (+5); & 145.01 MHz 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** using 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.

AACOVER Information

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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 AACOVER articles, provided you credit the author and the AACOVER.

"N0UJR 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 AACOVER 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 AACOVER mailing labels and membership information and roster questions.

Jeff announced that he had some 2-for-1 coupons for a special Saturday ham breakfast at the Waterloo on 6th & Lamar. This is a one time change to help introduce the staff there to the breakfast crowds as they have just started serving breakfast there. The coupons are for July 12th. (BTW, They have free wireless internet access there!) Roger mentioned the recent signage of a formal agreement between the ARRL and The Department of Homeland Security Citizens Corp at Hamcom a few weeks ago. You can read about it on www.arrl.org.

Summerfest: Joe Makeever, W5HS, talked about the Summerfest (Aug 1st & 2nd) <http://www.austinsummerfest.org/> and that the sessions will run until 4:30 pm this year. The Grand Prize drawing will also be at 4:30. Some things Joe discussed were: 1) Need volunteers for working the Registration table 2) KD5ABM will work the outdoor swapfest but he needs TWO volunteers to help him with it. 3) Need volunteers for the ARRL table to hand out brochures. 4) Need volunteers to work the Talk In for Fri. & Sat.

Presentation: Part two of the video on the history of commercial radio was shown.

Submitted: Lee Cooper, W5LHC ■

SMOKEY'S KORNER

Smokey Wiley, K5RDJ

Did you ever see an amateur radio operator that couldn't improve on a receiver, transmitter, antenna or other device for the shack or mobile? Sometimes it takes only about 5 minutes, other times it takes longer, but he will usually come up with something in a short while. I knew that I wanted an aluminum toolbox when I got my new truck a couple of years ago so I wouldn't have to worry about the painted surface deteriorating. I wanted 4 mag mount antennas on the box aluminum wouldn't allow mag mounts to stick. I solved the problem by ordering 4 pieces of 12 ga. steel to be cut so that I might mount them on the box. With 10 stainless steel 32 X 1/2 inch pan head screws and nuts thru flat bibb washers for leak prevention and the arrangement works very well. So you see the laws of physics can be circumvented with a little thought.

At K5GDH's cabin in the Santa Cruz Mountains, Duke (now deceased) mounted a TV antenna 125 feet up a redwood tree in his yard and received programming from 100 miles away. He was the first one in his neighborhood to do so and this is where the pucker factor was invented. The antenna is still there but cable TV and the dish TV have come into play since then. There is no reason a yagi for some ham frequency couldn't be placed in a tree.

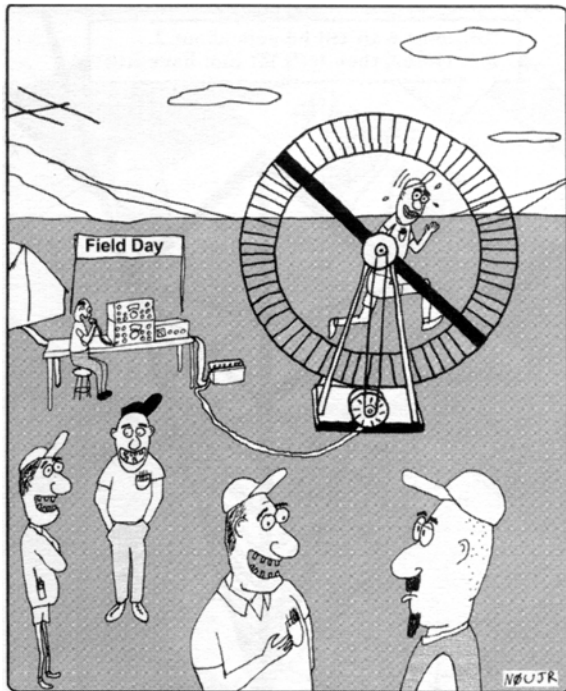
While transmitter hunting several years ago we needed a light for some reason and one of the fellows happened to have a fluorescent tube with him. He taped it to a 108" whip and bent the antenna over where he needed the light. When he keyed up, voilá...light!

Another guy had a kilowatt on 10 meters in a Studebaker commander, jet black it was. He wound a turn or two of solder at the top of the antenna and keyed up. Melted solder flew in all directions. Hey! I didn't say it had to make sense, he was ruining his paint job, which was beautiful.

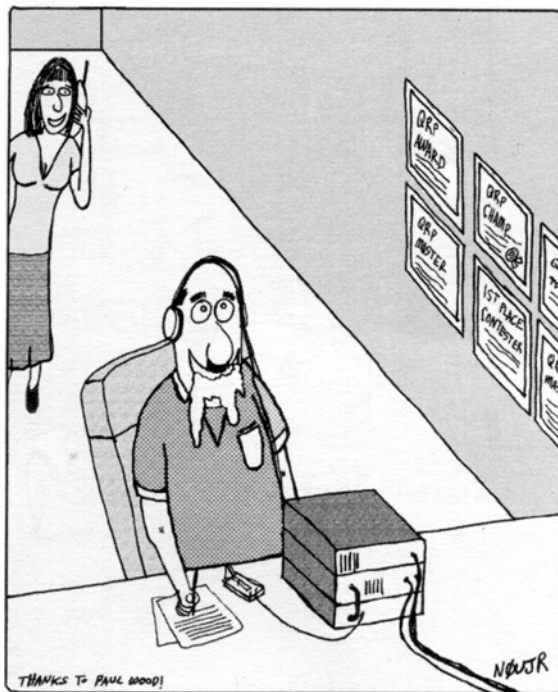
See you next month.

NØUJR and His Friends

By Greg Trook, NØUJR



"For years we couldn't afford a portable generator, but this solution became obvious when we were voted squirreliest ham club in the state three years in a row."



"Oh, hi Roger...Walter can't come to the phone right now...he just made a contact with a station in Tazmania at 10 milliwatts, and he's not finished foaming at the mouth yet..."

ARO/AARC Meeting Place

Sirloin Stockade on Lamar just S. of Koenig Ln.

ARO Speaker — August 5

QCWA members will describe their new automated code practice transmission process. Come see how and when they will be on the air and what's in it for you

AARC Speaker — August 12

Mitch London, KD5HCV will discuss transmitter hunting for the beginner & making your own equipment cheaply!

Upcoming Amateur Exams

ARRL VEC- Aug. 2nd* & Sept. 6th- 9a.m. at Murchison Middle School - Take Far West Blvd. From MoPac (Loop 1) west to Hart Ln. (turn left). Then right on North Hills Dr. Enter school from South (North Hills Dr.) entrance. Contact Joe Makeever, W5HS (345-0800) or Joe Thiel, N5SMN (832-0450) for information. \$12 examination fee. ***Test at Red Lion Hotel at Summerfest.**

W5YI VEC- Aug. 23rd & Sept. 20th- 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.

If you're not an ARRL member and are considering it, AARC/ARO will apply \$15 towards your 2003 AARC/ARO club dues if you sign up for first-time ARRL membership through the club! Take advantage of 2003 ARRL signup, join ARRL and AARC/ARO simultaneously! Single: \$44, Family: \$54 Contact Don AC5YK@arrl.net or Roger W5WIA@arrl.net for more details.

(Continued from page 1)

filters cut 5MHz off, you may get little to no power out. High-power TX will likely damage output devices in that case!

Learn more at---

<http://www.remote.arrl.org/news/features/2003/07/02/1/?nc=1>

60m FAQ

<http://www.remote.arrl.org/FandES/field/regulations/faq.html> ■

Calendar of Events

Swapfests, etc. for 2003

Aug 1-2

Austin Summerfest West Gulf Division Convention Austin ARC, Austin Repeater Org., & Texas VHF-FM Society Joe Makeever, W5HS 512-345-0800 w5hs@arrl.net

Sept 6

HLARC Swapmeet www.hlarc.org/ (tentatively) Industrial Park, south side of Burnet, next to Galloway-Hammond Rec. Center Roy, K5WSC, (512) 715-0717, Chuck KB5YKJ 512-715-9972

Sept 27-28

Texas QSO Party www.txqp.org/ or email k5cx@arrl.net

Aug.	Sept.	Austin Meetings/Happenings	
5	2	ARO Meeting, Sirloin Stockade (SS)*	7:00p.m.
9	13	ARO Transmitter Hunt	7:00 p.m.
9	13	Austin QRP Club, SS *	11:30 a.m.
12	9	AARC Meeting, SS *	7:00 p.m.
19	16	ATV Club Meeting, SS *	7:00 p.m.
16	20	QCWA Meeting Bevo's Bar & Grill+	11:30a.m.
23	20	Informal Transmitter Hunt - Contact Milton Miller	
25	22	Travis County REACT SS? *	7:00 p.m.
No	30	Travis County A.R.E.S., ARL Aud.	7:00 p.m.

+ Bevo's Bar and Grill is where Jim's Restaurant used to be on I-35 N.

*All these organization meet at the back room of Sirloin Stockade, at the corner of Lamar Blvd. & Koenig Ln. 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.

Time Value Newsletter

Permit No. 2942

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