



AARC OVER

Bulletin of Austin Amateur Radio Clubs

Austin Amateur Radio Club
Austin Amateur Television Club
Austin Repeater Organization

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Field Day 2003

By Stuart Rohre, K5KVH

The premier operating event among ARRL clubs and ARES groups is the annual Field Day, June 27 - 29. It is locally made up of combined operators from AARC, ARO, ARES, QCWA, REACT, and other special interests such as ATV club, and AQR. All members are urged to put June 27, 28, and 29 on their calendars and sign up at the upcoming Club meetings for operating time slots, station slots, and set up and tear down, as well as kitchen duties, hospitality tent, and PR table.



Head of the Class

Depending on the operator's interests and the numbers signing up in advance, the class of entry will be determined. We placed 4th nationally, in Class 5A last year, partly due to the knowledge that even though overnight we would not run 5 stations, those 5 stations on the Sat. afternoon of the test, would give maximum chances to members to operate and fewer clubs compete in that class. We were No. 1 in the Milliwatt entry of the QRP-Amateur Radio Club International contest that ran concurrently with ARRL Field Day.

GOTA

If you know any less active hams, who have not participated in operations last year, we could use them to activate a GOTA (GET ON THE AIR) station. This station replaces the Novice Tech class, but can only be headed by someone who was not active in Field Day the last 2 years. Also, those operating GOTA must not have come out and operated with Field Day the last 2 years. GOTA has to operate under the call of one of its crew for the whole test. Therefore, EXTRA, ADVANCED, or GENERAL class is needed for all bands. If nobody steps forward with a higher-class call, operation must be limited to the privileges of the call used. (If a Tech call, VHF only, Tech Plus can add 10m). The number of contacts needed to gain bonus points, has been reduced to manageable size this year. In addition, bonus

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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	
	807 Camino La Costa on I-35 N. Frontage, 452-0450	
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+

Join the AARL through AARC!

Please see Roger Wines, W5WIA, to help out the club financially and help yourself by becoming an ARRL member.

You can have a life membership by paying 15 times a single year's dues over 8 quarter-yearly installments.

ARO/AARC Minutes

ARO Meeting, April 1, 2003

The meeting was called to order at 7:05pm by President Jeff Schmidt, N5MNV, at the Sirloin Stockade on North Lamar.

Visitors: Paul Kinney, KD5VRU, James Brown, W5BOO, and his XYL, Beverly, and Milton Cram, W8NUE, visited with us.

Monthly Drawing Winner: Daniel Cronch, N5RVS, if present, would have won the door prize. Tammi Friedman, KD5RJU, was present and won the door prize, a ratcheting screwdriver.

Minutes: The March 2003 ARO meeting minutes were approved as written.

Treasury Report: Treasurer Roger Wines, W5WIA, reported that the bank balance was the same as last month.

Technical Committee: Nothing to report.

Old Business: None.

New Business: President Schmidt said that the planning for the new swap-fest, Austin Radio Roundup, is under way. Details will be discussed in the directors meeting on the third Tuesday. Initial plans are to have something Friday night and Saturday at the St Louis Catholic Church on Burnett Rd on Nov 15 weekend.

Web Site: Lee Cooper, W5LHC, added a link to an interview that he and Jeff Schmidt participated in for News 8 Austin.

Ham of the Month: President Schmidt named Marcus Brooks, K5MWB, as Ham of the Month for his duty as net control at the Capitol 10K race. This was Marcus' first net control stint, and he did a great job coordinating the net on the 147.36 repeater.

Equipment Loaner Program: President Schmidt announced that the club has a new piece of equipment. He swapped the Kenwood TH77 for a Yaesu FT530 HT. The FT530 will be loaned out for up to 2 weeks. Keith Watson, N9TX, has the club's MFJ259B antenna analyzer. Contact Lori Schmidt, KM5MQ, to reserve equipment.

Announcements: Stuart Rohre, K5KVH, announced that the QCWA meeting would be held on the 3rd Saturday of the month at Jim's on I-35 at St John's.

Stu Rohre presented plans for Field Day 2003 on June 28 & 29 (setup on the 27th). We will have a GOTA station but not a Class F (EOC) station due to the security measures at each EOC. He distributed sign-up sheets for all bands and modes. We will operate QRP and QRO. Stu recommended brushing up on section acronyms and proper log sheet entry. Contact Lori Schmidt to order a Field Day 2003 t-shirt or pin.

Stuart Rohre also mentioned that the QRP SIG will meet on the 2nd Saturday at 11:30 at the Sirloin Stockade.

Roger Wines, W5WIA, asked all to participate in an SET (Simulated Emergency Test) being held in Seattle on April 2. The HF exercise will simulate a widespread phone outage in the Northwest.

Mitch London, KD5HCV, AARCOVER editor, asked for article submissions.

Roger Wines asked all to review their information for corrections prior to printing the Club Roster in the next month.

Jeff Schmidt reminded all that the MS150 bike race still needs operators on April 12 & 13. We will use the 147.36 and 146.70 repeaters locally, and HF, APRS, and packet. Contact Mike Lay, N5PTN, to sign up. Ms150aus@texas.net.

The meeting was adjourned at 7:33pm.

Program: The April program was presented by John Fisher, K5JHF. John's topic was "Using Microprocessors in Ham Projects." John discussed his experiences with several low-cost microcontrollers, the Motorola QT4CP, the Zilog Z8F, and the Microchip PIC. John wrote his first CW program with the PIC micro and eventually switched to the Motorola HC08 chips. He also use the Zilog chip. (John developed a popular Morse Code learning device that has seen several iterations now.)

John pointed out that ham experimenters should look for flash memory and timers in a micro. Zilog also has a \$50 development board and compiler with a built-in debugger and programmer. For low cost schematic capture and board layout, he uses Express PCB which is actually free software. You can only get your printed circuit boards from Express PCB, but the overall cost is very low - \$62 for three 3.8" x 2.5" boards.

John recommended the free Motorola software available from P&E Microcomputer and Metrowerks. He suggests using catalog distributors for the chips and visiting scrap dealers for other parts.

John's next project is an identifier for ATV purposes. He already has a prototype, but it takes up all the bandwidth that the micro has.

Submitted by John Suchyta, KG5O

ARO Secretary

Austin Amateur Radio Club, April 8, 2003

The monthly meeting of the Austin Amateur Radio Club was held on April 8th, 2003 at Sirloin Stockade, Koenig & Lamar, Austin, Texas. Club President John Suchyta, KG5O, called the meeting to order at 7:09 PM

Monthly Prize Winner:

This month there were three prizes for the monthly winners. Daniel, Cronch (N5RVS)
Charles Gunn (KE5AY)
Cary Logan (KD5VRO)

Visitors and New Members:

No visitors or new members

Approval of the Minutes:

Jeff Schmidt moved that the minutes of the last meeting be approved. The motion was seconded and approved.

Officer Reports:

President - John Suchyta, KG5O

Vice President - Mitch London, KD5HCV

Mitch announced the continuing need for speakers and topics for the AARC monthly programs. If you have a suggestion or are willing to give a presentation, please contact Mitch London, KD5HCV

Treasurer - Roger Wines, W5WIAO

Balance in the club treasury as of March 31, 2003 is \$1770.95

Activities Manager . Stuart Rohre, K5KVH

Stuart announced that the Red Cross Austin Chapter is hav-

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(Continued from page 1) Field Day

stations for VHF, Satellite contacts, and non-traditional modes can be used. This has included robot TV cars in past tests.

Working Digital

Digital modes score the same as CW, thus PSK 31, packet, and RTTY could be used. CW and SSB voice are separate HF classes of operation. You enter a class based on the number of simultaneous HF stations you have in operation at any ONE time, (not necessary to have them all on 24 hours). That is how we placed so high last year. 5A had fewer entries than 4A, or 2A, (and maybe 3A). But, the important thing was to have more bands in use on Saturday and Sunday. 5A for the first time, allowed us to fully explore 40m SSB and 80m Sat. and provided more stations that could be operated when most club members are around before the evening BBQ. It turned out the bands to be on, included 15m, 20m and 40m during the day, and 40, 80, and 20 late at night, (if you were set up to notch out the foreign 40m broadcast stations). Digital modes are more popular on 20m. Last year we explored PSK 31 on 15m, but 20m shows more promise this year.

CW is, with other digital modes, the highest point value per contact. It can be keyboard sent, and we hope to have such a set up. However, to gain more points from all contacts, we have an entry that uses battery only power. We can also have one of our other club calls active at 100 watts, (if operators sign up) as another entry, but battery use limits a class to 5 watts CW or SSB. We have "secret weapon" antennas to equalize that limit.

Bigger is Better!

Use of extraordinarily large wire horizontal loops and Zepp antennas has given us high gain signals on all bands. One tower is usually raised from the club trailer and beams are put to good use on it. VHF can be exciting if 6m SSB opens up, and we need loan of 6m and 2m and 440 beams for fully taking advantage of our VHF bonus station. We need all mode VHF gear to be loaned as well. HF gear has to be low power drain, thus bigger radios such as the Kenwood TS 850 are not as desirable as the TS 140 simpler radio. (This also makes it easier on the operators not familiar with your radio if it is not full of bells and whistles hidden under menus.) We also find that CRT and lap top screens wash out in daylight, thus flat screen displays have to be used or computer modes confined to dark hours.

Combining aspects of an emergency drill, a weekend campout with radio operation, and public service demonstrations, Field Day annually involves more hams than any other contest weekend per hour of operation. It is only 24 hours of operation on the air, but the Friday before sees groups setting up antennas and tents from 1 PM on, and arranging other infrastructure such as battery banks, solar cells, satellite antennas, and operating positions. Not to be forgotten, we gear up for a BBQ, and try for the various classes of bonus points.

Bonus!

The Bonus points are related to how well we show ourselves to the Public and Emergency preparedness officials. This year, we can get bonus points for more than one emergency official who visits the site. Having the event in a public place such as we have done at Anderson High the past several years, also adds points. Having the event in a place easily visited by the public adds to the attraction. Preliminary publicity to local media, and getting them out to visit also is good for points added to operating contacts.

Come One, Come All!

Please stand up to be counted for this important club event. In no other way can we compare our level of skills to area clubs, statewide, Section wide, and nationwide, and even Western Hemisphere wide! Contact Stuart Rohre, K5KVH, or any other club officer for more info. Sign up sheets will be circulated at the club meetings. If all the members signed up for just One Hour each, we could have more activity than ever in the clubs' histories! Please share operating duties during the days on short shifts. If you want to operate for hours, we can surely use you overnight! We will be relaying messages to and from Williamson County Club, and we pride ourselves in doing as well as they and other clubs in Central TX.

Getting the Grub On

Joe Fisher, K5EJL, BBQ Chef par excellence, has stated he has polished up the BBQ trailer, and will be looking for help to have another good club eating event. We will bring a dish to share, and the club will provide the meat. *(After working the past couple Field Days, there is nothing like bellying up to a plate of this incredible BBQ!-Ed.)* REACT has served well and ably with stocking the soft drink coolers and manning publicity table and hospitality tent to sign up visitors and operators to the participation log, which is part of our entry requirement.

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ing an event on Saturday, May 10 at 11:00 AM in Waterloo Park and he is seeking HF operators to man an Amateur Radio Demonstration station. Setup for volunteers will be a 9:00 AM. Contact Stuart if you are interested.

Also, Stuart is heading up the AARC effort for Field Day and he needs volunteers for Friday through Sunday (June 27th - 29th). Contact Stuart if you are interested in operating any station. Please note that you do not need a HF license in order to get on the air on HF. There will be "control operators" available for all hours.

Technical Committee (Ed Golla, K3AHS)

There were no issues reported with the 146.78 repeater.

Old Business: No Old Business

New Business: No New Business

Announcements:

Mitch London, KD5HCV, the club newsletter editor, announced that anyone interested in writing an article for the AARC-Over should seriously consider doing so.

Adjournment:

The meeting was adjourned at 7:37

Program:

Tom Neuve (W2MN) gave an interesting talk about the 3M ARC super station which is located at the 3M campus on 2222. This is a station that was designed from the ground up to be able to communicate to anywhere in the world in an emergency.

Petaflops are the Future!

P etaFLOPS
E nabling
T echnologies and
A pplications

Overview (from <http://www.hq.nasa.gov/hpcc/petaflops/definition.html>)

What Is A PetaFLOPS?

A PetaFLOPS is a measure of computer performance equal to a million billion floating point operations per second, and is thousands of times more powerful than the world's largest massively parallel computer. To achieve PetaFLOPS capability will involve the harnessing of innovative advanced technologies and new computing paradigms. P.E.T.A. is a web based resource which is to provide access to the broad array of research activities destined to play a role in achieving effective PetaFLOPS computing. P.E.T.A. is sponsored by the NASA High Performance Computing and Communications Program Office to encourage and facilitate interdisciplinary cooperation in this domain.

What is a petabyte equivalent to?

- 2300 years of video source
- 1 Billion Books (1 MB per book)
- 300 Million mega pixel images
- 30 Billion compressed images

Ham Radio Volunteer Exam Results

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

Technician Class Licenses Processed

Chad A. Barker
Caroline M. Cook
Nathaniel W. Hein, KD5LHX (Tech + HF)
James R. McAlister
Erik A. Schuchmann

General Class Licenses Processed

Russell A. Bauer, KB-0-RWY
James Phillips, KD5UBT
Shawn R. Wolff, KD5EUM

Extra Class License Processed

J. B. Johnson, WA5YZA

Examiners Participating in this Test Session

Bill Brewer, K5KNC
Jim Huckabee, AA5BU
Jim Lindley, K5EWS
Joe Makeever, W5HS
Herb Nolen, W5HMN
John Stott, AC5ZT
Joe Thiel, N5SMN
Roy Walker, WA5YZD

The next two ARRL VE test sessions will be held at Murchison Middle School on May 3rd and June 7th.

W5YI-VEC – 4/19/2003

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

Extra Class - none

General Class - none

Technician Class – all new licensees

Martin G. Dennis James H. McLean

One other applicant earned element credit without upgrading.

Our volunteer examiners were:

Bill Brewer, K5KNC Jim Greenwood, AB5EK
Hugh Brown, NT5O Jimmy Mercer, N5WDH
John Fisher, K5JHF Sam Mihalik, KM5MY
Lloyd Goehring, N5TO Dennis Murphy, W5KQF
Roger Pfluger, AC5IP

Our next sessions: **May 17th and June 21st**, 2003 2 PM in room 109 of Fleck Hall on the campus of St. Edward's University

Special Note: *We will start to use exams based upon the new Technician (Element 2) question pool at our July session.*

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.**

SMOKEY'S KORNER

By Smokey Wiley, K5RDJ

Safety in the ham shack is paramount. Hour after hour the control operator might be alone at home during the day, or at night after everyone has retired. I have always made it a policy to have a master switch thru which all my equipment is powered. When that was completed I showed each family member what it was for and where it was located. If someone is in distress, the power should be cut immediately. Don't touch the person until this has been done. First Aid can be administered after the power has been removed. This master switch is not only for the control operator, but other hams, visitors, etc. We have now talked about electrocution. Another thing I would like to discuss is equipment bonding. This is accomplished by connecting your equipment cabinets together and in turn to a good ground. Your 13.8-volt equipment need not be grounded, the power supplies should. Some QRO or high power amplifiers run on 230 volts, so additional thought should be applied.

Be prepared for fire if it should erupt. To get ready to fight a fire after a fire has started is not a good idea. A halcyon type extinguisher is good for electrical fires because it doesn't leave a residue. There are three different types of fires A, B, C. I have found that a "C" type extinguisher though it will leave a residue is best for a ham shack. Always use a metal wastebasket as they will not melt and create a fuel, as do plastic ones. Try to equip yourself now before the fact. The extinguisher should be located outside the door of the room you wish to protect.

There are testers at home improvement stores that will tell you if a convenience outlet is wired right or not. If the outlet doesn't pass the test it should not be used until the fault has been corrected. I know this sounds like a lot of work but it will be worth it in the long run you will be the hero of the household when you finish. You have created a safer environment.

Lightning protection in the shack is also very important. There are some real good articles on building a ground window for the shack. It is a device whereby all antenna shields entering the shack are grounded to a common point and in turn run to a husky ground wire routed to a rod driven into the ground or earth outside the room of entry. Several of the locals have built a ground window for their shack and lowered their blood pressure during a thunderstorm.

New Member Societies Admitted

ARRL Bulletin 29ARLB029

The International Amateur Radio Union (IARU) has admitted three new member societies. The National Association Radioamateurs of Georgia (NARG), the Federation of Radiosport of the Republic of Armenia (FRRA) were voted in April 10; the Vietnam Amateur Radio Club (VARC) officially joined IARU on April 4.

NARG has 156 licensed members out of a total of 485 amateurs in the country. The NARG president is Mamuka Kordzakhia, 4L2M. FRRA counts 84 of Armenia's 128 radio amateurs as members. Its president is George Badalian, EK6GB. VARC was founded as a national organization in July 2002 under the Vietnam Radio-Electronics Association. The president of VARC is Eng. Nguyen Bac Ai, XV2A/3W6AR.

The IARU, founded in 1925, is a worldwide federation of national Amateur Radio societies with members in 156 countries and separate territories. In addition to joining the worldwide IARU, NARG and FRRA become members of IARU Region 1 and VARC becomes a member of IARU Region 3. ARRL is a founding member of IARU.

Ferrite Beads and Cores

Forwarded by Pete Jordahl, K5GM
From the ARRL Contest Rate Sheet for
March 26, 2003:

Mystery ferrite cores and beads are often found surplus and at hamfests. If you've wondered about the characteristics of these materials, you might find the answers in the Fair-Rite catalog, which is downloadable from <http://www.fair-rite.com/>. Type 43 material is by far the most common. If you have access to an impedance meter, such as the Autek RX Vector Analyst, Model VA1, measure the complex impedance of a test winding of one, two, or five turns, depending on frequency. Match what you find against the characteristics given in the Fair-Rite catalog, which includes formulas for inductance and a lot of other useful information.

(Thanks, Chuck W1HIS)

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

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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 Newsline @ 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.

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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.

QCWA's May Meeting

Keith Zimmermann, K5WX

The May meeting of QCWA Chapter 67 will be held on Saturday, May 17th, at a location to be announced. Meeting starts at 11:30.

The Chapter discussed their planned participation in the Austin Fall Swap Fest.

Everyone is welcome to join us on May 17th. For full membership in QCWA, you only have to have been licensed prior to 1978. You do **NOT** have to have been continuously licensed since 1978.

Information is always available at our own Web site: www.QCWA.net. There is 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 his or her permanent address!)



(Continued from page 3) Field Day

All members who want to learn the skills of antenna erection and operation are urged to help set up and operate. The battery class station gets "S9 PLUS strongest signal on the band reports" from the 9dB or greater gain afforded by the 1.25 wavelength loops at low bands being used as 20 wave loops at 10m! If you have never used such a Big Gun antenna, now is your chance!

Operators should plan on bringing their own left-handed keys, headphones, boom mikes or such operating aids. Contact the officers to make sure you bring the right connector adapters to fit the rigs. Also, contact them to offer use of rigs, VHF/UHF beams, or RTTY or PSK 31, or PACTOR equipment. The club has access to several multi band antennas, and tuners, but will need deep cycle batteries, generator, and camping gear. Someone to guard the site after set up, all Fri. night, will be required.

Only basic operating skills are needed. On phone you give and receive an "exchange" which is class of the club operation, such as 5A, and our ARRL section, "South Texas". That and call signs are all you have to say to save time. We find that Hunt and Pounce operation, (listen and answer CQ Field Day calls) often works better than calling CQ ourselves. You just start on highest frequency and work down the band answering CQs, then do it again, until your rate of contacts falls off. Then, you move to a lower frequency band. CW stations and the bonus stations do the same process. There will always be someone available to answer questions you might have.

If you have not been to a Field Day ever, or in awhile, come sample the unique Austin style!

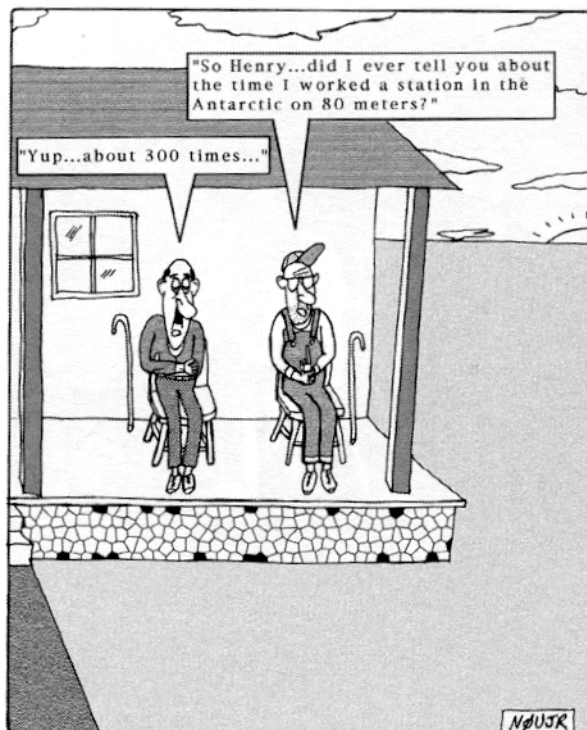
Field Day will be June 27-29 at Anderson High School. Set Up will be Friday the 27th and Field Day begins at 1pm on Saturday the 28th and runs until 1 pm Sunday the 29th.

NØUJR and His Friends

By Greg Trook, NØUJR



“So Charlie, I guess I had better think About signing off, as I just heard a Peal of thunder.”



Old hams don't die, they just become repeaters.

New Meeting Place!!!

Sirloin Stockade on Lamar just S. of Koenig Ln.

ARO Speaker — May 6

The May program will be given by Gene Preston, K5GP will cover the Texas power grid.

AARC Speaker — May 13

Representative of Bearcat/Uniden will talk about their latest and greatest

Upcoming Amateur Exams

ARRL VEC- May 3rd & June 7th - 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.

W5YI VEC- May 17th & June 21st - 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.

Missed an Issue???

Text (only) version of this issue can be found on the Web at <http://www.austinhams.org> where you will also find a new section called **AARCOVERFLOW**. It is there to put in news and articles that just missed the AARCOVER deadline. Check it out!

Calendar of Events

Swapfests, etc. for 2003

May 3-4 Key City ARC West Texas Section Convention
Peggy Richard, KA4UPA, 915-672-8889 or ka4upa@arrl.net

Jun 20-22 Arlington Ham-Com ARRL National Convention
Maury Guzick, W5BGP Call 214-361-7574
chairman@hamcom.org or www.hamcom.org

Jun 28-29 AARC Field Day- Anderson High School 1PM
Saturday until 1PM Sunday

Jun 26-29 10-10 International Convention, Omni Hotel 9821
Colonnade Blvd., San Antonio, TX Cliff K5FBS
catk5fbs@aol.com or <http://www.drhnet.com/stlhb/2003.htm>

May	June	Austin Meetings/Happenings	
6	3	ARO Meeting, Sirloin Stockade (SS)*	7:00p.m.
10	14	ARO Transmitter Hunt	7:00 p.m.
10	14	Austin QRP Club, SS *	11:30 a.m.
13	10	AARC Meeting, SS *	7:00 p.m.
20	17	ATV Club Meeting, SS *	7:00 p.m.
17	19	QCWA Meeting	11:30 a.m.
24	21	Informal Transmitter Hunt - Contact Milton Miller	
26	23	Travis County REACT SS? *	7:00 p.m.
No	No	Travis County A.R.E.S., ARL Aud.	7:00 p.m.

*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.

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