

AARC COVER

Keeping Austin Wireless for Over 94 Years!

Bulletin of Austin Amateur Radio Clubs

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Never Assume Anything (rotten design?)

by Joe Fisher, K5EJL
ARRL Technical Specialist

Way too much of my ham radio time is spent repairing or diagnosing problems related to poor device design. It's easy to assume that a piece of electronics, especially one that has gone through several revisions, has achieved really good design. You better not; a few cases in point follow.

One of my pet peeves with not only radio transceivers but also GPS devices is that the LCD screens are, in my experience, horizontally polarized. This means that when you look at the screen through vertically polarized sunglasses, you see all black! That "feature" makes the device pretty much useless in a mobile installation. OR, you could practice rotating your head 90° while driving down the road to read the display! Not too good, and that negates the value of polarized sunglasses as well.

Considering the display polarization problem I've noticed that my new Samsung Galaxy S5 smart(alec?) phone's display seems to be diagonally polarized. Interesting. Maybe a compromise between vertical and horizontal? At least you can read the thing through sunglasses when temporarily mounted at a 45° angle in the K5EJL pickup.

Well, the new Galaxy precipitated the need to "pair" it with my old Jabra® Drive speaker-phone via

(Continued on page 4)

Periodic Events

Sun	7:00 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	146.64 MHz - (162.2)
Sun	9:00 p.m.	ARO Swapnet	146.94 MHz -
Sun	(After Swapnet)	Newsline	146.94 MHz -
Mon.	7:30 p.m.	STX ARES Net	3.873 MHz
Tues.	7:30 p.m.	Hays ARES net	147.100 +
Tues.	8:00 p.m.	Bastrop ARES Net	443.750 + (114.8)
Wed	11:30 a.m.	Ham Social Luncheon, Jim's	146.94 MHz -
Thu	9:00 p.m.	2m SSB Net	144.250 (USB)
Thu	11:00 a.m.	Lunch, Pokey Joe's 183&Great Hills	444.1 MHz+
Fri	8:00 p.m.	6m SSB Net	50.230(texasvhf.org/)
Sat	7:00 - 8:30a.m.	Breakfast @ Waterloo Ice House	444.1 MHz +
Sat	9:00 a.m.	Chapter 67 QCWA QSO Net.	3.920 MHz LSB
Daily	6:30 p.m.	Central Texas Traffic Net	147.14MHz+

In This Issue

Story	Page
Ham Exam Results	2
Amateur Radio Parity Act Info	5
Austin Summerfest	10
Field Day Thanks	11
XYL Cartoon	12

Ham Radio Exams Results

The following are the results of the ARRL VE Test Session held on June 7th at Bethany United Methodist Church:

Technician Class Licenses Processed

Raymond J. Cascella KK6OAV
John C. Davis KG5DEX
Christopher M. Monroe KG5DFA

Andrew L. Davis KG5DEY
Douglas M. Dukes KG5DEZ
Christopher M. Quintanilla KG5DEW

General Class Licenses Processed

Kenneth D. Brown KG5CWI

Hugh T. Mitchell III KG5DFB

Examiners Participating in this Test Session

Gary Becker AF5QB
George Csahanin W2DB
Gene Hinkle K5PA
Joe Thiel N5SMN

Milt Cram W8NUE
Larry Gunter WB5BEK
Joe Makeever W5HS

Next ARRL VE Test Sessions

August 2nd - AUSTIN SUMMERFEST in the Crowne Plaza Hotel @12:30 PM
Crowne Plaza HOTEL is at the intersection of US HWY 290E and IH 35 North
September 6th - Bethany United Methodist Church, Disciple Bldg. Room 203/204

TNX ES 73 DE W5HS
Joe

7-19-14

The South Austin W5YI VE team heartily congratulates the following people who earned new or upgraded amateur radio licenses at our July 19th session:

General Class

Merit Gainley, KG5CIB
Joe Mahurin, KG7EET
Marshall Vogt, W5RSA
Fred Vogt, Jr., (NEW)
Martin Payne, KG5CWQ

Christopher Quintanilla, KG5DEW
Coster Archibald, Jr., N5CWA
Charles Cole, KG5CWJ

Technician Class (NEW)

Theodore Sullivan
Larry Long

Our administering volunteer examiners were:

Craig Bean, AC5KW
Sam Mihalik, KM5MY
James Peisker, AF5NP

Gary Popp, AE5JR
Wally Marusa, K5WLY

Our next two amateur radio exam sessions will start at
2 PM on August 16th and September 20th in
Fleck Hall, room 118 on the campus of St. Edward's University.
All sessions are walk-in and the exam fee is \$14.

For additional information regarding our amateur radio examination sessions,
please contact Craig, AC5KW at (512) 474-6443 or by e-mail to hamradioexams@hotmail.com or visit our web page at
<http://texashams.org/w5yi-austin/>

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

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TC ARES PIO	Steven Polunsky	W5SMP		tcares-pio@gmail.net

Please contact a club officer, attend a meeting, mail us to join the organization, you can also join or renew online.

The Austin Amateur Radio Club, Inc. (AARC) has annual membership dues of \$20.00 per person or \$30.00 per family. AARC maintains the following repeaters:

FREQUENCY	AUTOPATCH	USE
146.780	No	
146.880	Yes	General
146.940 107.2 PL Tone	No	Most popular, WX, Swapnet & Newslite
224.800	No	
444.100	No	
440.650 +5	No	70cm D-Star Repeater [W5KA]
146.480/+1.0	No	2m D-Star Repeater [W5KA C]
1293.200/-20	No	23cm D-Star Repeater[W5KA A]
1248.200	No	23cm D-Star DD (data, simp./reversible)[W5KA A]

Persons using the repeaters are asked to join the club to help support these valuable resources. To use the autopatch, announce your call sign, press * and dial the phone number then release the PTT. When finished, press # to hang up the phone. Dial 911 (no * needed) for emergency services.

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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 22nd 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.

“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>.

“XYL” is printed with permission by Carolyn Canfield, KE5DTS . Cartoons may not be reprinted without written permission.

**For Changes in your ADDRESS, PHONE NUMBER or CALL SIGN:
See Jay Hoffman, KA5OST ka5ost @ arrl.net
Jay handles all changes for membership information .**

Bluetooth®, a really interesting 2.4GHz radio technology in itself. But for some reason, I couldn't initially get it to work, and I could hear a "rattle" inside the speaker-phone. That's always a warning sign with any electronics as a loose metal part can be really destructive to a powered circuit.



Therefore we had to take it apart! See the photo. Turns out that the rattle was caused by broken plastic sockets that receive screws to affix the bottom of the cover to the back half of the clamshell, shown with the electronics attached. The top of the cover is not affixed to the back, allowing the cover to "pressed" to activate a switch on the PCB.

After 5 years or so of being stressed, or perhaps overstressed at original assembly, the screw sockets failed. A design that was, In My Humble Opinion (IMHO), too clever, by half! It will be a delicate operation to replace the sheet metal type screws with #2 Machine Screws and nuts.

But all was not lost; as usual, we did get some "education". The big square silver device mounted to the larger PCB is what powers the Jabra: a very, very large capacitor. That's a popular design option that eliminates the need for a replaceable battery. A Google search of its nomenclature turned up nothing; the only recognizable data is "4.4 Wh".

OK, we'll assume that means 4.4 Watt-hours, perhaps the amount of energy storage capacity. That would likely be at some voltage ≤ 5 VDC, the typical supply voltage of a USB port from which the device is charged. The Potential Energy (P.E.) stored in a capacitor is calculated by the equation:

$$P.E. = \frac{1}{2} \times C \times V^2.$$

When P.E. is expressed in Joules of energy, the capacity C is in Farads and the potential V is in Volts.

Working through the unit conversions and arithmetic, we get a capacity of about 600F at 5V and about 3000F at 3.3V. A check of the Mouser Electronics on-line catalog showed Cornell-Dubilier capacitors rated at 2.7V as ranging from 350F to 3000F, but with larger, much more robust packaging than that in the Jabra. Either way that's a lot of whammy!

The 2300 mAH NiMH (milliamp-hour Nickel Metal Hydride) Energizer rechargeable cells I use in my AWACS pager have a fully charged potential of about 1.25 Volts. That works out to about 2.875 Watt-hours, about the same as that supposedly in the Jabra capacitor. But then "4.4 Wh" meaning Watt-hours was just an assumption.

Well, there I go again!



Amateur Radio Parity Act Info

113TH CONGRESS

(Document certified by Superintendent of Documents <pkisupport@gpo.gov>) Signed by Superintendent of Documents <pkisupport@gpo.gov> Time: 2014.07.02 11:01:30 Z Reason: GPO attests that this document has not been altered since it was disseminated by GPO Location: US GPO, Washington, DC 20401
2D SESSION

H. R. 4969

To direct the Federal Communications Commission to extend to private land use restrictions its rule relating to reasonable accommodation of amateur service communications.

IN THE HOUSE OF REPRESENTATIVES

JUNE 25, 2014

Mr. KINZINGER of Illinois (for himself and Mr. COURTNEY) introduced the following bill; which was referred to the Committee on Energy and Commerce

A BILL

To direct the Federal Communications Commission to extend to private land use restrictions its rule relating to reasonable accommodation of amateur service communications.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,

SECTION 1. SHORT TITLE.

This Act may be cited as the "Amateur Radio Parity Act of 2014".

SEC. 2. FINDINGS.

Congress finds the following:

- (1) More than 700,000 radio amateurs in the United States are licensed by the Federal Communications Commission in the amateur radio service.
- (2) Amateur radio, at no cost to taxpayers, provides a fertile ground for technical self-training in 6 modern telecommunications, electronics technology, and emergency communications techniques and protocols.
- (3) There is a strong Federal interest in the effective performance of amateur radio stations established at the residences of licensees. Such stations have been shown to be frequently and increasingly precluded by unreasonable private land use restrictions, including restrictive covenants.
- (4) Federal Communications Commission regulations have for 28 years prohibited the application to amateur radio stations of State and local regulations that preclude or fail to reasonably accommodate amateur service communications, or that do not constitute the minimum practicable regulation to accomplish a legitimate State or local purpose. Commission policy has been and is to permit erection of a station antenna structure at heights and dimensions sufficient to accommodate amateur service communications.
- (5) The Federal Communications Commission has sought guidance and direction from Congress with respect to the application of the Commission's limited preemption policy regarding amateur radio communications to private land use restrictions, including restrictive covenants.

SEC. 3. ACCOMMODATION OF AMATEUR SERVICE COMMUNICATIONS.

Not later than 120 days after the date of the enactment of this Act, the Federal Communications Commission shall amend section 97.15(b) of title 47, Code of Federal Regulations, so that such section prohibits application to amateur service communications of any private land use restriction, including a restrictive covenant, that—

- (1) precludes such communications;
- (2) fails to reasonably accommodate such communications; or
- (3) does not constitute the minimum practicable restriction on such communications to accomplish the legitimate purpose of the private entity seeking to enforce such restriction.

Amateur Radio Parity Act—What You Can Do

Craig Bean,AC5KW

There are FIVE member of the House Committee on Energy and Commerce (where this bill currently resides) from TEXAS!!

Texas members of the House Committee on Energy and Commerce

The Congress recess begins July 31, so you should also write to these committee members at their district address:

Republicans:

The Hon. Pete Olson
1650 Highway 6, Suite 150
Sugar Land, TX 77478

The Hon. Ralph Hall
104 N. San Jacinto St.
Rockwall, TX 75087-2508

The Hon. Joe Barton
6001 W. Ronald Reagan Memorial Hwy. #200
Arlington, TX 76017

The Hon. Michael Burgess, M. D.
1660 South Stemmons Freeway, Suite 230
Lewisville, TX 75067

Democrat:

The Hon. Gene Green
256 N. Sam Houston Pkwy. E., Ste 29
Houston, TX 77060

It would be best if the letters arrived just after August 1, so that the state office does not try to forward them to DC.

AARC Summerfest Volunteers Needed

Lori KM5MQ has asked me to pass along this request for help at Austin Summerfest Aug 1-2.

She needs AARC members and a few "Elmers" (Ham Radio's Kind and helpful Guides) to staff the AARC table in the hallway across from indoor Flea Market.

At the AARC table, we will again have "Ask The Elmer" sessions: A knowledgeable person will be available to answer questions and help new & learning Hams.

Many of you expressed a desire to keep this effort going and we whole-heartily agree!

There will be plenty of reference books, including ARRL Handbooks, Antenna books and Operating Guides to use.

If you can spare an hour or two, please contact Lori- KM5MQ (at) ARRL.NET or 512 632 6789 (text is OK).

Thanks!
MNW Jeff

Amateur Radio Parity Act—What You Can Do Write a Letter

Sample Letter to your Congressperson

Dear Representative Smith:

As a constituent and a licensed Amateur Radio operator in your district, I am writing asking that you support HR 4969 – *The Amateur Radio Parity Act of 2014* – and request that you become a co-sponsor for this legislation.

For over 30 years, the FCC and Congress have repeatedly acknowledged the “strong Federal interest” in effective Amateur Radio communications. The FCC found that municipalities often unreasonably restricted Amateur Radio antennas in residential areas. In its declaratory ruling now codified at 47 C.F.R. §97.15(b) – the FCC determined that:

“Except as otherwise provided herein, a station antenna structure may be erected at heights and dimensions sufficient to accommodate amateur service communications. (State and local regulation of a station antenna structure must not preclude amateur service communications. Rather, it must reasonably accommodate such communications and must constitute the minimum practicable regulation to accomplish the state or local authority's legitimate purpose.”

HR 4969 will extend limited reasonable accommodation provisions to include all types of land use regulations, including preclusive homeowner’s association regulations and restrictive covenants. The FCC has jurisdiction to provide these protections when there is a conflict with Federal policy. This was established when, at Congress’ instructions, it enacted regulations that preempted municipal and private land use regulation over satellite dish antennas and television broadcast receive antennas in residences.

HR 4969 will provide a basis for radio Amateurs to negotiate reasonable accommodation for at least minimal outdoor Amateur Radio antennas with their homeowners’ association. This legislation is critically important to me and to the hundreds of other federally licensed Amateur Radio operators residing in your district. Please sign-on as a co-sponsor of HR 4969.

Sincerely,
Joe Amateur, W1AW
225 Main St
Your Town, CT

Remember to sign your Congressional letter before sending it. Unsigned letters are not beneficial.

For More information about this issue, please check out this link to an article handed out by the ARRL.

<http://www.austinhams.org/Issue6.pdf>

AUSTIN SUMMERFEST 2014

August 1 & 2, 2014

Crowne Plaza - Austin
6121 North IH-35
NE Corner of IH-35N & US 290E

Austin, Texas
78752

Our 31st Anniversary!

Once again it's time for fun in the sun in central Texas as we make the Capital City the place to be in the middle of the Texas summer. Come and enjoy old friends, the swapfest, and all the events at Austin Summerfest 2014, the ARRL Texas State Convention. And as always, we also host the Summer Meeting of the Texas VHF-FM Society.

Same hotel as
last year !!!

Check out
www.austinsummerfest.org
for late breaking news!

Schedule

All the activity is concentrated on Friday night and Saturday, to allow you flexibility in your weekend travel plans. But do come early, as things fire up at 6 Friday evening and go 'till 9, and start up again Saturday at 8 am, with swapping 'till 3:30 and dealers & sessions 'till 4:30.

The Texas VHF-FM Society meeting will run from 1 to approximately 3 pm, so mark your schedule.

Prizes

Prizes Galore! You have a chance at a slew of them, including these Major Prizes:

- *Grand prize* is a **Yaesu FT-857D** HF/6M/2M/70CM compact all-mode transceiver.
- Our *Featured Prize* is a **Yaesu FT-7900R** 50W/45W 2M/70CM mobile transceiver.
- A special *Bonus Prize* is a **Yaesu FT-60R** 2M/70CM 5W heavy-duty handheld.



Bonus Prize,
Yaesu FT-60R

Furthermore, if you register in advance by mail you have a shot at still one more prize—another **Yaesu FT-60R!**

With your registration you get one ticket good for Saturday's door prizes and the Major Prizes, and you can buy more tickets at \$1 each. Plus, if you rent a room at the Crowne Plaza, you'll get five bonus tickets for each room-night, up to a total of ten tickets. (See next page for prize rules.)



Grand Prize,
Yaesu FT-857D



Featured Prize,
Yaesu FT-
7900R

Swapfest

For lots of folks, our main event--wall-to-wall goodies of every description, brought to you in carpeted, air-conditioned comfort on Friday evening and Saturday.

Rules:

- Full-sized tables: 6 feet by 30 inches. \$10 each, limit of 3 to a customer. First come, first served.
- AC power is available at an additional \$5 per customer, through advance registration only.
- We'll attempt to honor requests from groups of sellers for adjacent tables, if we receive your registrations in the same envelope.
- If you advance register for swap tables, we'll attempt to notify you in advance if they are unavailable due to being sold out (a rare occurrence). Be sure to give us your email address so we can notify you that way.

- Your table(s) will be held for you until 10 am Saturday.
- Swapfest hours are 6 to 9 pm Friday and 8 am to 3:30 pm Saturday. Opening times are for both sellers (for setup) and shoppers.
- Buyers and sellers must be registered at the convention.

We'll be holding a Tailgate swapfest on the east side of the Crowne Plaza Hotel. You need not be registered at the Convention to sell at the tailgate, but of course you'll want to attend the indoor swapfest and sessions, so it would be a good idea to register.

Technical Sessions

- ARRL West Gulf Division Director **Dr. David Woolweaver K5RAV** conducts this year's **ARRL Forum**, with Vice Director **John Robert Stratton N5AUS**. This year's special guest speaker is **Dan Henderson, N1ND**, ARRL Regulatory Information Manager since June 2006.
- The **Central Texas DX & Contest Club**, widely recognized for its excellent Summerfest presentations, has yet another outstanding program lined up for us.
- **Steve Hicks, N5AC**, of **FlexRadio Systems** will give us the latest information on Software Defined Radios.
- Find out how to do "the mostest with the leastest" in our QRP workshop.
- The **Roadrunners Microwave Group** hold their annual meeting and host a session on the latest topics on the "high end."
- **Keith Pugh W5IU** leads a wide-ranging discussion on communications through **Amateur Radio Satellites**.
- **Jim Russell, NQ5L**, South Texas Section Emergency Coordinator, hosts a session on **Emergency Communications**.
- **Troy Kimmel KE5BCK** along with other leading Austin meteorologists will conduct a program on the latest in forecasting technology and recent weather events in the central Texas area.

Driving Directions

The Crowne Plaza is at 6121 IH-35 North at US 290, Austin, TX, 78752. Phone (512)323-5466. Talk-in is on 146.34/94. Tone: 107.2Hz

Northbound on IH-35: Take Exit 238-A (RM 2222). Continue on the frontage road over US 290. Turn right into the west entrance of the Crowne Plaza parking lot.

Southbound on IH-35: Take Exit 238 B-A, marked East 290 Houston West 2222. As you go up the ramp, it splits. Bear right at the fork, taking the West 2222 ramp. As you get back down to ground level, stay in the left lane and take the U-turn under IH-35 to the northbound frontage road of IH-35. Get to the right side of the northbound frontage road as soon as possible and take the first right turn into the west entrance of the Crowne Plaza parking lot. If you miss the first turn into the lot, take the second one into the northmost end of the hotel parking lot and work your way back to the front of the hotel.

Westbound on US 290: Take the IH-35 North (Waco) exit. Shortly after the exit ramp, bear to the right; turn right into the south entrance of the Crowne Plaza parking lot. This turn comes up quick; if you overshoot, just follow the turn lane to the right onto the northbound frontage road and turn right into the west entrance of the Crowne Plaza parking lot.

Summerfest will be held in the hotel's convention center in the southeast side. The tailgate swapfest area will be made available Saturday morning in the parking lot section in the southeast corner of the hotel property.

Prize Rules

We'll award door prizes throughout the day Saturday, until noon. For these, you must claim your prize by 12:45 pm Saturday. We'll post your name/call or ticket number at the prize drawing table. Prize tickets are only valid for persons registered at the convention.

At 1:00, we begin drawings for our three Major Prizes.

For the Major and Advance Registration Prizes, you need not be present to win. If you're a winner, we'll post your name and hold your prize. If you haven't claimed it by the end of the day, we'll send it to you.

License Exams

An exam session Saturday afternoon will cover all elements. Bring a photo ID and one other form of identification, and \$15.00; if you're upgrading, bring your current license, any applicable CSCE's, and a photocopy of each. For more info email **Larry Gunter WB5BEK** at wb5bek@arrl.net

After the exams, **Jeff Schmidt N5MNW** and **Ron Hambric N5SBN** have just what you need: **A Welcome and Information for New Hams**.

Amenities

Come on up to our hospitality suite. Room 505—that's where you'll find your old friends and new ones, too. There are soft drinks and munchies on Friday night, and refreshments on Saturday morning.

The Crowne Plaza will serve a special buffet lunch on Saturday priced at \$9.99.

Administration Matters

Exchange views with West Gulf Division Director **David Woolweaver K5RAV**, Vice Director **John Robert Stratton N5AUS**. Find out what's going on and offer your opinions and insights. The ideal way to get or stay involved!

As always, we host the Summer Meeting of the Texas VHF-FM Society, scheduled for 1:00 Saturday afternoon.

Craft and Skills Events

Sandy Talen hosts our crafts session. No prior experience required. Come for a short while or the whole session and take home a completed crafts project. Did we mention, no charge? Children are welcome, but an adult must be with the children to supervise and help.

Field Day Thank You!

This past Field Day 2014 could not have been so pleasurable without our club officers and Field Day committee, which was loosely made up of Station providers, key operators for CW/ and Digital Pete Jordahl, Lew Thompson, Milos, Joe Fisher, etc, NVIS antennas provided and erected by Bob Morgan- as well as phone operations. GOTA set up duty and Coach Ronny Risinger, and network gurus and logging expert Dave Rivenberg, and Joe Fisher who expedited getting laptops from Red Cross; and everyone who showed up early to put up antennas, get the fire started with BBQ cook Joe Fisher and put up his canopy shelter. Club officers pitched in such as Lori and Rich, and many did double duty such as my co-Chair Jeff Schmidt, who also organized the VHF and 15/ 10m stations. Thanks to all!



I took great pleasure in seeing the club as a whole pitch in, at Red Cross, and have us ready to go a half hour before the start time. A new record. We were able to have a lunch of Pizza Sat. and breakfast Sun., organized by Lori Schmidt and her auxiliary of ham wives, and the Breakfast chef and snack providers. It was also great to have new members and Field Day attendees come up and thank us for putting on Field Day and organizing the logistics of creating 5 stations for just 24 operating hours and 5 hours set up, and however long it took us in Zombie state to take everything down and put it away Perhaps another 3 hours past 1 PM.

Helpers appeared and pitched in at the BBQ trailer, and ad hoc problem solving was done for such issues as an electric carving knife that would not run, a chain saw that would not cut. Also, sausage that had to be sliced, meats organized on the grill and carved, and additional wood split during the cooking process. Now, we were cooking with fine flavored hard woods, as the chain saw adventures revealed!

It seemed like axes were put to good use all over the FD site. Some wood splints had to be added to the mast clamps to speed the attachment of the phone antenna pole to its fence post anchor. The head of a handy ax was also used to drive in the post, and guy anchors.

Thanks to all who brought tools and shared them among the jobs that sprang up.

We did a good job of helping the operators in crowded quarters; since we had to share one room for three stations in one case, and two stations in the other case. But, the air conditioning made it worthwhile.

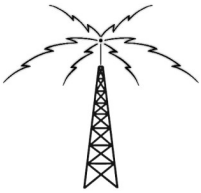
No sun illnesses were suffered this year. Just some lost sleep, which can be pretty debilitating for days after a 24 hour event like this. It probably was partly the honing of operating skills needed to work under less than optimum sun spot conditions, on bands that faded and frequencies that were crowded, that made the all night ops feel the sleep loss more.

Very useful operating lessons were learned, and ideas for bringing back a Vee beam for next year have started. (For those that have not a long history of Field Days with W5KA-TQ, we have used huge antennas usually reserved for military stations or big time contest stations. They used up to a half mile of wire at one time, but were very time consuming to put up. An idea of trying a modest version as one Vee in an useful direction might help us pull in those elusive Canadians, upper midwest, and even South of the border stations is being considered.

It is even proposed to try some antenna days to play with such ideas, and see if we could set up in the Saturday morning time frame.

Stuart Rohre
K5KVH

(Note: Photos from Field Day 2014 will be online soon!)



Over the WWaves...



A Collection of useful and interesting Websites sent in by our readers

(All links have been checked by editor as working at time of publication)

I see tons of wild and wooly creations and projects on the MAKE: blog. But every once in a while, there comes along an eminently practical one. This one falls into that category, I think. Check it out:

http://blog.makezine.com/archive/2009/08/diy_pushbutton_potentiometer.html

Rick Herndon, K5FNI

For "Magic Band" aficionados!

<http://www.bigskyspaces.com/w7gj/6mTable.htm>

VE7BQH 6m Antenna Comparison Table, plus helpful hints on sources of copper wire and antenna parts.

Pete Jordahl, K5GM

How would you like this antenna?

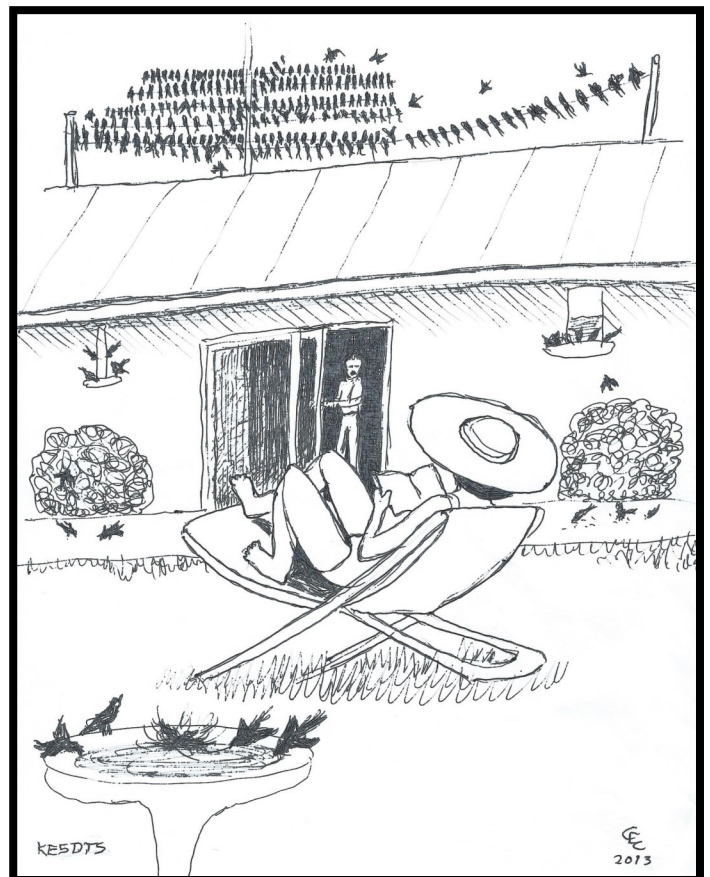
<http://www.ae5x.com/blog/?p=1198>

Stuart Rohre, K5KVH

XYL

By Carolyn Canfield, KE5DTS

“Honey. Do you see anything wrong with the antenna?”



AARC Meeting Info.

Waterloo Icehouse

**8600 Burnet Rd. South of 183
(Come early and have dinner!)**

Business Meeting 7:00 pm

August 5—Topic Field Day Wrap Up + Solar Weather

Officers Meeting 6:30 pm

August 19 - Officers meetings are open to club members.

2014 Calendar of Events

Aug 1-2 *Austin Summerfest*

Crowne Plaza Austin 6121 North IH-35 NE Corner of IH-35N & US 290E

ARRL Texas State Convention.

Summer Meeting of the Texas VHF-FM Society.

\$10 per-person admission

Crowne Plaza ph#- 512-323-5466.

Talk-in on 146.94(-)107.2HzPL

www.austinsummerfest.org/

Aug 3-Oct 19 "*CW Operations Code Course*"

DE Bill K5LN

2:30PM, at the WC Jester Annex, 1801 E. Old Settlers Blvd, Round Rock, TX 78664

The course will run for 12 weeks and will end October 19 Please pass this along to others who are looking to learn this great language of Morse code

Contact Bill K5LN k5ln@austin.rr.com

Sept 5-7 *33rd Annual ARRL & TAPR Digital Communications Conference*

Austin Marriott South, Austin, TX

<http://www.tapr.org/dcc>

Sept 13 *Tour De Cure* (2nd Sat in Sept 2014)

APRS/voice ops needed at each of seven Water Stops, extra NCS's etc

Ham Radio Contact: Jeff n5mnw@arrl.net 512-255-6753

Sept 13-Oct 25 *Capitol BEST Robotics Competition*

2013 Upcoming Amateur Exams

ARRL VEC— August 2 @ Summerfest & September 6th 9a.m. at Bethany United Methodist Church. Contact Joe Makeever, W5HS (345-0800) or Joe Thiel, N5SMN (832-0450) for info. \$15 fee.

W5YI VEC- August 16th & September 20 2p.m. in room 207, Fleck Hall, St. Edwards Univ. Contact Craig Bean, AC5KW@arrl.net, (474-6443) for more info.

<http://texashams.org/w5yi-austin/>

Upcoming Meetings...

Aug	Sept	Austin Meetings/Happenings	Time	Address
5	2	AARC Meeting Waterloo Ice House	7:00 p.m.	8600 Burnet Rd.
No	No	QCWA Tres Amigos \$	1:30 p.m.	7535 U.S. 290
27	24	Digital Wednesday at CATRAC	7:00 p.m.	4100 Ed Bluestein Blvd.
25	22	Travis Co. REACT Jim's 183 & Burnet	7:30 p.m.	9091 Research Blvd.
26	23	Travis County A.R.E.S. Waterloo Icehouse%	7:00 p.m.	8600 Burnet Rd.
28	25	CERT Meeting, CTECC	6:30 p.m.	5010 Old Manor Rd.
26	23	CTDXCC Meeting Old Quarry Library	6:30 p.m.	7051 Village Ctr Dr.

% New Meeting Location for TCARES

\$ QCWA Now meets quarterly visit <http://www.qcwa.org/chapter067.htm> for info