



AARC OVER A

Keeping Austin Wireless
for Over 91 Years!

Bulletin of Austin Amateur Radio Clubs

ISSN 1067-0262

December 2012

Happy Holidays!

Issue 12-2012

2012 AARC Christmas Party!

When: Tuesday December 4th at 6pm

Where: Cannoli Joe's Gourmet Italian Buffet
4715 US Hwy 290 W

Tickets are \$20 per person & Includes:

- All you care to eat Italian buffet
- A non-alcoholic beverage
- Dessert
- Ham of the Year Presentation
- Table-top Decoration Contest
- QLF Contest
- Entertainment!

Tickets can be purchased:

- *Online at www.austinhams.org
- * At the Door

Periodic Events

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	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	444.150 + (114.8)
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+

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Ham Radio Exams Results

The following are the results of the ARRL VE Test Session held on November 3rd at Bethany United Methodist Church:

Technician Class Licenses Processed

Justin C. Bishop KF5SQI

Bruce Jilek KF5SQJ

Charlie L. White KF5SQG

General Class Licenses Processed

Anonymous KF5SQH

Roger G. Kirkpatrick KC5FOW

Gail L. Mc Candless KF5SQK

Extra Class Licenses Processed

Michael K. Chastain K5CWO

Erich B. Fickle AF5HI

Elliott M. Gordon AF5HH

Examiners Participating in this Test Session

Tony Davee KM5JH

Curt Goodson W4QBU

Larry Gunter WB5BEK

Steve Lang WB5ZIL

Joe Makeever W5HS

Tom Nevue W2MN

Donald Sitze AF6VA

Carol Thiel N5TLY

Joe Thiel N5SMN

Next ARRL VE Test Sessions

December 1st - Bethany United Methodist Church, Disciple Bldg. Room 203/204

January 5th - Bethany United Methodist Church, Disciple Bldg. Room 203/204

TNX ES 73 DE W5HS

Joe

11-17-2011

The South Austin W5YI VE team heartily congratulates all of the following people who earned new or upgraded amateur radio licenses at our November 17th session:

Extra Class – (none)

General Class –

Adam C. Curry, KF5SLN

Technician Class - (new)

Robin A. Blackburn

Joanna K. Devine

Adam L. Goldberg

Our administering volunteer examiners were:

Craig Bean, AC5KW

Hugh Brown, NT5O

Scott Bryan, W5TS

Jim Greenwood, AB5EK

Sam Mihalik, KM5MY

Gary Popp, AE5JR

Our next two amateur radio exam sessions will start at
2 PM on December 15th and January 19th in
room 118 of Fleck Hall 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 Jim, AB5EK at (512) 327-6184 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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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, simplex/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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Viewpoints expressed in the AARCOVER do not necessarily reflect those of any club, or of its members, directors, or officers. Material quoted from the ARRL Letter is supplied by the American Radio Relay League, Inc.

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 20th 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>.

“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 .

Club Dues for 2013 are Due!

The new year is almost here and you might as well get a jump on things by paying your dues for the 2013 year.

Besides the admiration of your friends, you also get guilt free use of all club repeaters, access to club equipment, online help through the use of the Austin Hams Yahoo group and much more!

Be the first on your block to be a new member in 2013!

You can pay online at- <http://www.austinhams.org/join.htm>

Just fill out the .pdf form and mail to:

The Austin Amateur Radio Club
PO Box 4739
Austin, TX 78765-4739

SKYWARN Recognition Day

Skywarn Recognition Day 2012 will be December 1st - 0001 - 2400 zulu time or November 30th 1800hrs to December 1st 1800 hrs local time!

The Austin/San Antonio National Weather Service Office is committed to participating in the event, as has been in past years! Our station has consistently improved our standing each year utilizing VHF/UHF, HF, IRLP, Echolink and various Digital modes!

All Currently Licensed Amateur Radio Operators are invited to participate during this years event. One does not need to be Skywarn trained to participate, but it could be helpful should an activation occur! During the 24 hour event, we schedule up to 3 operators per 2 hour block of time to operate the station. The best time slots fill up fast, although, some of the hottest activity has been from midnite local to 0400, so if you would like to participate, please contact Louis Upton - K5STX @ k5stx@yahoo.com to reserve a slot.

Yes, you may volunteer to operate for more than one 2 hour time slot, and many operators usually do! Operating Procedures can be found at the following link, to give an idea of what it is we do during the event. <http://www.wrh.noaa.gov/mtr/hamradio/opsprocedures.php>

Notes:

Since our station is located on the main operations floor of the NWS Office, we are limited to 3 operators at any given time.

Operators are encouraged to bring their own headphones to minimize noise on the operating floor.

Occasionally with pre-approval visitors come in for a tour of the offices and observe the operations during the event.

Only operators and visitors on the list will be allowed to enter the NWS Office and must be prepared to show proper identification.

Also, should a Weather event occur that requires the activation of the Skywarn team, operations will shift to that task!

The Staff at the Austin/San Antonio National Weather Service Office also does a great job of keeping plenty of snacks and hot coffee available during the event.

Who knows what else may show up in the break room!

Please contact me direct at: k5stx@yahoo.com if you wish to be placed on the schedule with:

Name

Call Sign

Preferred Phone Number

Preferred E-mail address

Time slot(s) preferred!

Thank you for your support of Amateur Radio and the Skywarn Program,

Louis Upton

K5STX



SKYWARN

Smokey's Korner

I borrowed the information I'm going to talk about this month from N5MNV and am really thankful for the information. I had seen it in some magazine, but was

unable to locate it again. I personally am not an advocate of cross band repeating, but if your going to do it, you should know the pros and cons, and there are many. Some are good and some are not so good. Cross band repeating is explained in March, 1993 QST if you can get your hands on one. Basically it is the re-transmitting of signals from one band to another. Why would a person want to cross band repeat? (A) To extend your operating range. (B) To void hazards of outdoor antennas. (C) Quick repeater relay station during emergencies. (D) Battery savings from ultra-low HT power. (E) When you need to but can't reach a remote repeater. (F) When used as an advantage. (G) To experiment and further the art of ham radio.

How do you cross band repeat. (A) Get radio capable of it. (B) Install diplexer or dual antennas. (C) Select known unused link channel W/PL/DPL. (D) If thru repeater, ask control operators permission. (E) Chose desired output frequency. (F) Select desired mode two way or talkie boost. (G) Place rig into cross band mode. (H) Be sure, be courteous and have fun.

Some rare but desirable features. (A) Automatic IDer. (B) DTMF on-of control. (C) On-link read back of cross band parameters. (D) Backlight off control. (E) VOX switching. (F) DSP filtering. (G) Inactivity timer on link. (H) Easy selection of talkie boost or two-way. (This article is not intended to supply you with enough info to get you on the air, but rather to get you thinking in the right direction.)

The Do's (A) Be sure it works as expected before leaving. (B) Stay close enough to power it down if necessary. (C) Select unused link frequency. (D) Move frequency if you are interfering or being interfered with. (E) Use least power necessary to do the job. (F) Adjust squelch way past threshold. (G) Think thru signal exchanges. (H) Use directional antennas. (I) Monitor at all times.

Don'ts (A) Don't forget RF exposure. (B) Don't use repeater to repeater cross band. (C) Don't walk away with intermode or noise problems. (D) Don't retransmit out of band signals. (E) Don't select repeater input frequency as link frequency. (F) Don't cross band if within HT range. (G) Don't disable time out timer in radio. (H) Don't use harmonically related frequencies.

Auxiliary or remote control must be above 222.15 MHZ. Another fact is that most amateur FM rigs don't auto ID. If someone else transmits on your input frequency or some sort of interference keys the receive section on your cross band rig, the cross band repeater station will be making unidentified transmissions on the out put frequency. Monitor all frequency involved in the cross band repeat process to insure proper operation. Good luck on your entrance to cross band repeating.

73 Smokey K5RDJ

H.G. "Smokey" Wiley, K5RDJ (SK) Passed away Saturday November 17th at his home in Cedar Park. Smokey was a great asset to the Austin Amateur Radio community. I first met Smokey at an ARES lunch at Jim's, (which continues still) where we discussed the finer aspects of transmitter hunting. He told me what equipment I needed to buy or to build including a attenuator, the plans for which are on the following page. After a few weeks of fiddling I built my attenuator and built me an antenna which I found the design for online. When I showed up for a hunt, Smokey looked at my 2-meter Moxon antenna and said, "That'll never work, you need a quad" or something to that effect. We were both surprised when I kept finding the "fox". Afterwards at lunch he said, "hmmm, maybe I'll have to build me one of those."

Smokey was always helpful. He and his wife Betty, helped for many years when this newsletter was printed and mailed out. They would spend a Saturday getting the newsletters, and putting the address stickers on, sort them, and go the main post office for bulk mailing and get the sometimes near 200 newsletter mailed off. I know how much a chore that was because Smokey handed that duty off to me. Maybe that's why the newsletter is electronic now. Hmm?

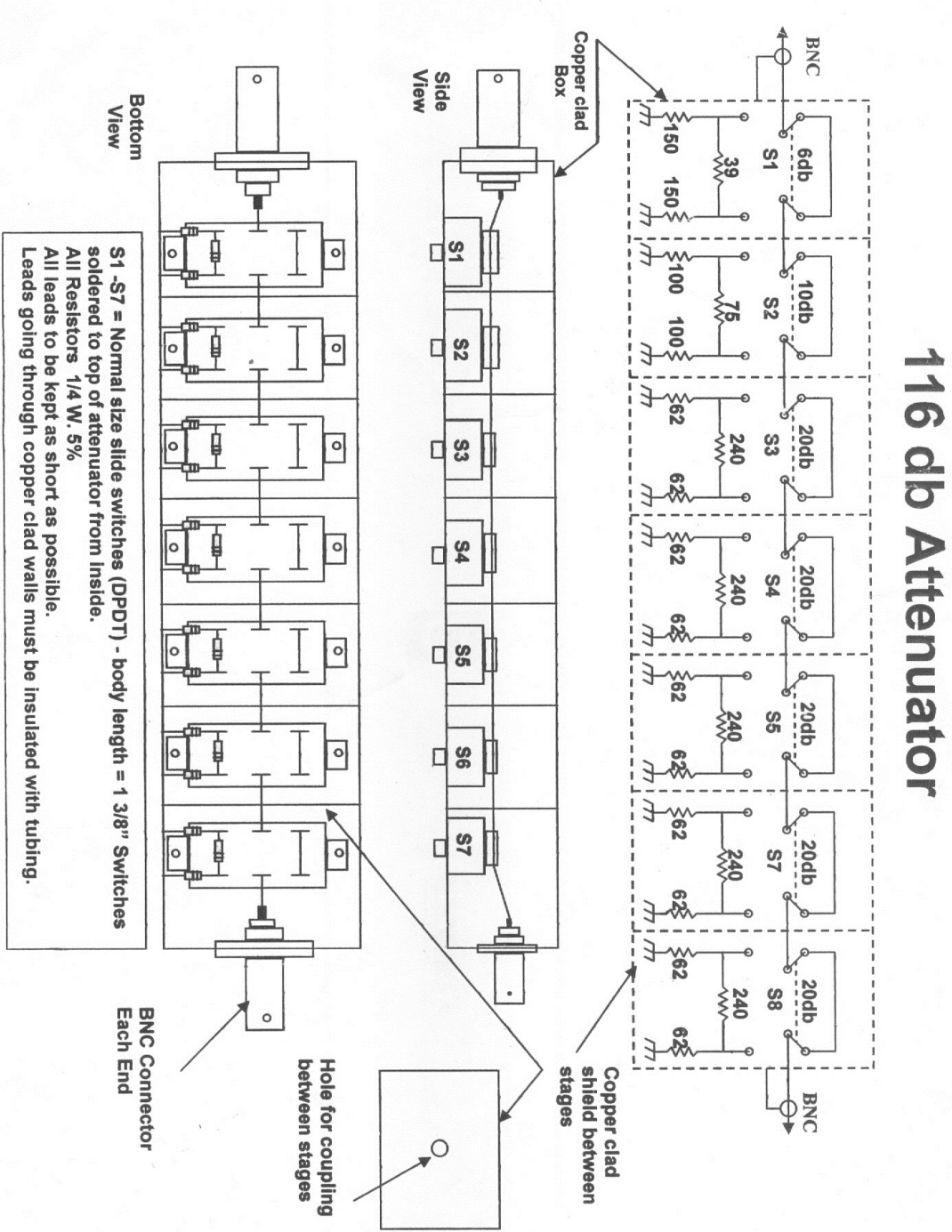
Smokey was a wonderful person and he made each and every person he met feel welcome into the ham radio community and I am sure he would want to welcome each of you to the ARES lunch at Jim's on 183 near Burnet starting at 10:30am.

Mitch London, KD5HCV
Editor

116 dB Attenuator

This is the simple piece of paper I got from Smokey years ago when I started getting into transmitter hunting. It should be fairly self explanatory incase you have the desire to build one. I only say that because there are plans in the works to start holding some transmitter hunts, and or to get a team together for the big transmitter hunt each year near Bastrop. Nothing confirmed yet, but this is a great piece of equipment to have and relatively inexpensive.

Happy Hunting!
 Mitch, KD5HCV



116 db Attenuator

AARC Meeting Minutes: November 6, 2012

Meeting called to order: 7:02pm by President Mitch London, KD5HCV.

Meeting started with a welcome to all and a cartoon by Carolyn Canfield, KE5DTS.

We had 40 in attendance, 1 visitor, and no new members. No upgrades were reported.

Minutes: October's minutes approved as written in AARCOVER.

Past Events: Belton Hamfest (club sold T-shirts, old equipment, and split profits on some equipment from an estate sale); Boy Scout JOTA; Outlaw 100; Ride for the River; Statewide SET; Hurricane Sandy; and NCTECH.

Upcoming Events/Announcements: Christmas Party (12/4) at Cannoli Joe's Italian Buffet featuring QLF & tabletop decoration contests, door prizes, & musical entertainment, tickets \$20/person; Decker Challenge (12/9) using HSMM-Mesh; 3M Half Marathon (1/13); Big Bend 50 Ultra Marathon (1/20) will attempt HSMM-Mesh along with regular voice communication; Urban Shield (12/1); Ham class (1/12 thru 2/9, Saturdays only) needs instructors; 2013 Membership Dues; & thanks given to all volunteers in the Red Cross SET along with brief summary of ham participation. These items, other upcoming events, and scheduled presentations are listed in the AARC Swapnet newsletter, at www.austinhams.org, and on the Yahoo user group.

REPORTS

President: none.

Vice-President: none.

Treasurer: none.

Editor: Mitch London, KD5HCV, will continue to serve as editor.

Tech Committee: D-Star at the South Austin Hospital will move soon to higher location on the new garage; & the .88 repeater covers Cedar Park where the .94 is blocked.

ARES: none.

SIG/Other: QCWA – explained importance of November in the history of amateur radio & QCWA; & quarterly meeting is 1/19 at 1:30pm. DXers – members going to Clipperton Island in February (taking FLEX & HSMM-Mesh). QRP – meeting 11/10 at Alvin's Sandwich Shop.

Space Wx: UV, sunspots, and ionization are all moderate with stable conditions and reasonable propagation.

Visit the Texas Army/MARS and other solar weather websites for more info.

Old Business: none.

New Business: Motion made and passed to approve/elect the Copeland Fund Scholarship Board.

Officer Elections: Lori Schmidt, KM5MQ, elected president; Richard Kerschner, KC9VFT, elected Vice-President; no secretary elected at this time; & Jay Hoffman, KA5OST, elected Treasurer.

Ham of the Month: Lew Thompson, W5IFQ.

Reminder: nominate a Ham of the Year, winner to be announced at Christmas Party.

Door Prizes: Marcus Gellner, W5MEG – Yaesu hat; Abe Clark, WB5EKG – safety glasses & repeater directory.

Meeting Adjourned: 8:14pm.

Presentation: no presentation when officer elections are held.

Belton Report 2012

The Fall 2012 Belton Swapmeet is in the rearview mirror. It was, as usual, an excellent event, full parking lot, and fantastic cool weather (I really liked that part).....and no rain. Lots of familiar faces and friends to greet. There could have been a few more sellers inside but the outside parking lot was pretty packed.

I casually asked a friend of mine who has been going up for many, many years, if he was going up Friday or Saturday. Friday ?? he asked. I said sure, many deals are bought straight off the trailer on Fridaymany of those DO show up on other tables Saturday when the large crowds are present. Well, he came on Friday and blew his socks offI haven't seen him that enthusiastic in years.

Looks like the "item of the day" was the oscilloscope and Heathkit gear.....they were everywhere this year. The usual qty of boatanchors and a number of ARC5 unitssome had high prices, some didn't. The thing I didn't see this year was a single Radio Controlled airplane.....there are usually 1 or 2 for sale.

XYL

By Carolyn Canfield, KE5DTS



“They talk equipment, but I keep the credit cards.”

The dog event show going on Saturday in the other half of the Belton Expo Center with a dirt floor is a VAST improvement over when they have an event involving well fed horses.

One of the really spectacular sales on Friday and Saturday was when the guy from Houston pulled in with his 16ft trailer loaded up about 4ft with repair stuff from Houston Amateur Radio (they never could throw anything away and the storage rental fees finally caught up with reality). They decided to clean out a small warehouse of older repair radios and radio repair parts, chassis, front panels, plug-in modules, LPFs, PA sections, power supplies, etc, etc. I have never seen so many FT-101 radios in my life, Kenwood, Yaesu, Icom, Alinco, etc, etc. Some of the Friday ones were basically complete, others had major parts missing, and some were just parts.....HF rigs, VHF rigs, UHF rigs, HTs

and on and on. Needless to say piles of people were all over the trailer in no time at all. Prices were VERY reasonable with most anything going for \$5 at 10AM on Saturday. I can't count the number of times I went back to look (and do a little digging). I really think Temple Amateur Radi!

o Club (who put on the event) ought to have charged him more because of the fun he was having.Incredible.

I "didn't have anything to bring up.....;o)" so gave

(Continued on page 9)

my table (always the same one) to a buddy who brought a bunch of his stuff to sell. Another friend brought up two large boxes of 12V plug-in power supplies which moved pretty well after I adjusted the price the "FREE". I told them if they started pulling on one and it was tangled up with 2 or 3 others they had to take all 3. The thought of knotting some of the cords together crossed my mind. I was successful and at about 12 Noon on Saturday, they were all gone.

Richard, from New Caney, TX, was there in his ever present overalls, riding around on his mobility scooter and towing a wagon of stuff he had bought back to his pickup and trailer. He said one of his best buys was another electric mobility scooter from a guy who "got to the point of walking again and he didn't need it any more". Now there is a good story.

Since my old 55ft heavy, tilt/crank-up, tower needs to be replaced.....did I mention heavy ?, I was looking for aluminum towers. I found a military surplus heavy duty aluminum tubular crank-up in the parking lot. this one was a 40ft tower consisting of 8 five ft sections where you crank up a section, insert the next one and continue cranking.

Really cool and I was told several surplus sellers had them at Dayton. He was asking \$300 and wouldn't take \$200. I ended up buying 2 sets of 40ft aluminum poles (also 8 five ft sections and guy rope stuff) for \$60 total.

To put the icing on the cake, one of my local friends said they called him when he was halfway home to tell him he had won the Grand Prize radio.....pretty cool event.

73 Kees K5BCQ

The Austin Amateur Radio Club, Inc.
 Membership Form for the year ending December 31, 20____

Application for: (check applicable box and enclose payment)
 AARC Individual \$20 _____
 Family (all with same mailing address) \$30 _____
 Student rate (thru 12th grade, no mail) \$ 5 _____
 ARRL Individual ARRL (new or renewal) \$39 _____
 Senior ARRL (new or renewal) \$36 _____
 Family member ARRL (at same address) - \$8ea x _____ = _____
 First time ARRL discount -\$15 _____

TEXAS HAMPAC (Political Action Committee) \$ _____
 Total Enclosed _____

Mail this form with payment to:
 AARC - P O Box 4739 - Austin, TX 78765-4739

Check One: -New member -Renew membership -Update Info
 ARRL member Y N License class E A G T+ T N Year first licensed _____

Call sign _____ First Name _____ Last Name _____
 Mail Address _____
 City/St/Zip _____
 Hm Ph _____ Cel Ph _____ Wk Ph _____
 Pager # _____ e-mail _____

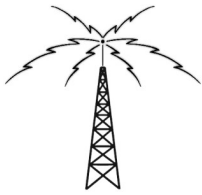
Please list additional family members here and check the family member box above.

2nd Call _____ Name _____ ARRL mem Y N
 3rd Call _____ Name _____ ARRL mem Y N
 4th Call _____ Name _____ ARRL mem Y N

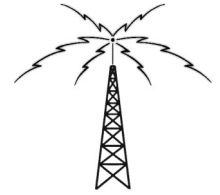
I/WE have interest in the following:
 Monthly meetings Field Day Working Events Transmitter Hunts
 Talking on 2 mtrs DXing Newsletters Holding Office
 Presenting programs CW Net Control Emergency Comm's
 Holding ARRL office Education Public Awareness Working w/Youth
 Others _____

Rcvd ___/___/___ Amt \$ ___ Ck ___ Cash ___ Dep ___ Post ___
 (for office use only)

JMH 20110315



Over the WWaves... End of Year Blowout!!!



Throughout the year I get a number of interesting Websites sent to me, and many times I just do not have the room to put them all in, so here is my chance to clear out the stores of old websites, enjoy!

This project

<http://www.ad5x.com/images/Articles/Static%20Bleed.pdf>

helps keep you from damaging your MFJ or other antenna analyzer due to static buildup on a vertical antenna.

<http://www.shorpy.com/loud-and-clear-1922>

Wow. This kid is determined. See the Morse key on top of the receiver. You can easily click on a larger image.

<http://www.wired.com/gadgetlab/2009/09/teardown-culture>

I surely could have used their info several times.

Just in case you want to do some circuit boards for your own projects.

1 of 3 <http://www.youtube.com/watch?v=Q38o3hr5TI0>

Starring Alex and shot/edited by Austin. This first video shows how to make an image of your circuit to transfer to a copper-clad board. You will first need to make the image of the circuit on a computer and print it out.

2 of 3 <http://www.youtube.com/watch?v=-QEYzjirX7s>

Starring Alex and shot/edited by Austin. In this video, Alex shows us how to adhere the circuit transfer mask we made in video 1 to our copper clad board. Once the mask has been transferred to the copper clad board, it's ready to be etched, and that will bring you to the etching process, which is covered in Video 3 of the series.

3 of 3 <http://www.youtube.com/watch?v=T5-laJBNNuw>

Starring Alex and shot/edited by Austin. This final video in the DIY Circuit Etching Video Series shows how to etch your masked copper clad board. After etching, the toner mask is removed with scrubbing.

Warning: There are inhalation and skin dangers to this process. Be sure to follow the directions and precautions noted in the videos.

Received this today from Bob, W7IKT, in San Angelo: Ran across this microphone wiring site and thought it might come in handy for someone out there, so here's the link

<http://www.qsl.net/g4wpw/date.html>

For those who like to get into the design of circuits or who are concerned with replacement capacitor specification, here is a good discussion.

<http://www.newark.com/pdfs/techarticles/kemet/Ripple-Current-Capabilities-Technical-Update.pdf>

<http://picasaweb.google.com/WVRadioMuseum/>

[MuseumOfRadioAndTechnology#slideshow/5359999311731081282](http://picasaweb.google.com/WVRadioMuseum/MuseumOfRadioAndTechnology#slideshow/5359999311731081282)

This will keep you busy for a WHILE, I'll bet.

One person's viewpoint on surface mount soldering

http://blog.makezine.com/archive/2010/03/nifty_surface_mount_soldering_techn.html

Special Thanks to Rick Herndon, K5FNI for submitting these links to me...a while back.

AARC Meeting Info.

Waterloo Icehouse

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

Business Meeting 7:00 pm

December 4th—No Meeting at Waterloo—Party at Cannoli Joe's—See Page 1

Officers Meeting 7:00 pm

December 18 - No officers meeting this month—Happy Holidays

2012 Calendar of Events

Dec 1 *Urban Shield* Voice & APRS support, Winmor digital modes handling message traffic www.winlink.org
K5FX@arrl.net

Dec 4- *AARC Christmas Party*- Cannoli Joe's 4715 US Hwy 290W next to Toney Burger Center See Page 1

Dec 9 *Decker Challenge* Voice ops, HSMM -Mesh nodes/cams/etc.
Jim K5KTF jim@k5ktf.com

Dec 16-23 *Austin Trail of Lights* in Zilker Park 5:30-10:30PM each evening.
Travis County REACT Roger Wines
W5wia@arrl.net 512-453-2193

Dec 21 *N0D-Now Zero Days* Special Event Station for Doomsday!
End of the World Special Event!
Countdown to Doomsday Contact Us Dec. 21, 2012, It might be your last 73.
www.nowzeroday.com
N0D.Doomsday@gmail.com

2012 Upcoming Amateur Exams

ARRL VEC— December 1st & January 5th 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- December 15th & January 19th 2p.m. in room 207, Fleck Hall, St. Edwards Univ. Contact Jim Greenwood, AB5EK@arrl.net, (327-6184) for more info.

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

Upcoming Meetings...

Dec.	Jan	Austin Meetings/Happenings	Time	Address
4**	1	AARC Meeting Waterloo Ice House*	7:00 p.m.	8600 Burnet Rd.
8	12	Austin QRP, Alvin's Sandwich Shop	11:00 a.m.	12200 Research Blvd.
17	21	ATV Club Meeting La Palapa %	7:00 p.m.	6640 Hwy 290 E
15	19	QCWA IHOP 183 Near Duval	1:30 p.m.	11654 Research Blvd.
26	23	Digital Wednesday at Red Cross	7:00 p.m.	2218 Pershing
24	28	Travis Co. REACT Jim's 183 & Burnet	7:30 p.m.	9091 Research Blvd.
25	22	Travis County A.R.E.S., ARL Auditorium	7:00 p.m.	10000 Burnet Rd.
27	24	CERT Meeting, CTECC	6:30 p.m.	5010 Old Manor Rd.

**AARC Business Meeting is at Waterloo Ice House Come early and grab dinner before the meeting.*

*** AARC Christmas Party, See Page 1 for details*

% New Meeting Location for ATV