



# AARC OVER

**Keeping Austin Wireless  
for Over 94 Years!**

**Bulletin of Austin Amateur Radio Clubs**

**ISSN 1067-0262**

**December 2015**

**Issue 12-2015**

## It's Time To Party!

The Austin Amateur Radio Club is having a holiday party and you are invited!

**Tuesday December 1st 6PM**

**Abel's North Grill and Tap House**

4001 Parmer Lane

All Hams are welcome to this event, you need not be a club member!

Tickets are \$25 per person which includes dinner, a non alcoholic beverage, tax, tip, and a door prize ticket!

Space is limited so please buy your tickets prior to November 23rd to get a seat.

**After November 23rd, tickets will be \$30.**

Tickets may be purchased at a club meeting or online at

[www.austinhams.org/join.htm](http://www.austinhams.org/join.htm)

There will be Live Entertainment from **Austin Harmony Chorus**

Door Prizes!

HOTY (Ham of the Year) Award Presentation

Great Food with friends!

QLF (left foot) Morse Code Contest

Table top decoration contest

Silent Auction

Plus the GRAND PRIZE A **Garmin GPS Unit!**



### 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+            |
| Thu   | 11:45 a.m.      | Lunch Whataburger Oltorf & Burleson | 146.94-(107.2)        |
| 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    |
| Over the WWWaves        | 4    |
| October Minutes         | 5    |
| November Minutes        | 6    |
| Editor Position Opening | 7    |

# Ham Radio Exams Results

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

## Technician Class Licenses Processed

|                            |                           |                           |
|----------------------------|---------------------------|---------------------------|
| Allison R. Burns KG5KFA    | Richard D. Cutler KG5KFF  | Erich S. Ellsworth KG5KEY |
| Michael D. Gauthier KG5KFH | Edward F. Gobbel KG5KEZ   | Adam N. Gonzales KG5KEV   |
| Louis W. Helton KG5KFC     | Garrett D. Kennedy KG5KEW | Russell E. Monroe KG5KFG  |
| John C. Oventine KG5KFB    | Gary S. Phillips KG5KEU   | Clinton N. Rather KG5KFE  |
| Lynden M. Wright KG5KFD    |                           |                           |

## General Class Licenses Processed

|                          |                      |                        |
|--------------------------|----------------------|------------------------|
| Eric K. Schmitter KG5JVN | Ina K. Tresca KG5KEX | Johnny L. Twist KF5ZHJ |
|--------------------------|----------------------|------------------------|

## Extra Class Licenses Processed

|                       |                       |                         |
|-----------------------|-----------------------|-------------------------|
| Chris M. Evers KG5JVP | Robert W. Rupe KF5HXW | James M. Van Dyke AG5BL |
|-----------------------|-----------------------|-------------------------|

## Examiners Participating in this Test Session

|                  |                   |                     |
|------------------|-------------------|---------------------|
| Craig Bean AC5KW | Milt Cram W8NUE   | Larry Gunter WB5BEK |
| Jim Kinter K5KTF | Joe Makeever W5HS |                     |

## Next ARRL VE Test Sessions

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

January 9th - Bethany United Methodist Church, Disciple Bldg. Room 203/204

TNX ES 73 DE W5HS

Joe

11-21-15

The South Austin W5YI VE team heartily congratulates the following people who earned new or upgraded amateur radio licenses at our November 21<sup>st</sup> session:

## Technician Class (NEW)

|                   |              |
|-------------------|--------------|
| Donald Wettlaufer | Karl Wukasch |
| Jason Hobbs       | David Boren  |
| Gregory Militello | Eric Heflin  |

## General Class

|                     |                                      |
|---------------------|--------------------------------------|
| Mark Clark KG5JYN   | Michael Killebrew KE5WKZ             |
| Chris Germer KF5YSU | Maria Favia del Core Borrromes (NEW) |
| Chris Furlong N5CDF |                                      |

## Extra Class

|   |                    |
|---|--------------------|
| Wendel Liebe KF5YME                     | Khang Nguyen (NEW) |
| Stefano Nerozzi N5STT John Payne KG5BKI |                    |

Our administering volunteer examiners were:

|                     |                    |
|---------------------|--------------------|
| Craig Bean, AC5KW   | Gregory Dew AF5ZB  |
| Wally Marusa K5WLY  | Isaac O'Hern AG5AR |
| James Peisker AF5NP |                    |

Our next two amateur radio exam sessions will start at 2 PM on December 19, 2015 and January 16, 2016 in Fleck Hall, room 118 on the campus of St. Edward's University. All sessions are walk-in and the exam fee is \$14 (cash or check).

For additional information regarding our amateur radio examination sessions, please contact Craig, AC5KW at (512) 474-6443 or by e-mail to [ac5kw@arrl.net](mailto:ac5kw@arrl.net) 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>

|                              |                 |        |              |  |
|------------------------------|-----------------|--------|--------------|--|
| President                    | Lori Schmidt    | KM5MQ  | 512-632-6789 | <a href="mailto:president@austinhams.org">president@austinhams.org</a>           |
| Vice President               | William Moyes   | KC6ARO |              | <a href="mailto:vice-president@austinhams.org">vice-president@austinhams.org</a> |
| Treasurer                    | Jay Hoffman     | KA5OST |              | <a href="mailto:treasurer@austinhams.org">treasurer@austinhams.org</a>           |
| Secretary                    | Angie Steelman  | KF5ZXI |              | <a href="mailto:secretary@austinhams.org">secretary@austinhams.org</a>           |
| Editor, AARCOVER             | Mitch London    | KD5HCV | 512-368-2566 | <a href="mailto:aarcover@austinhams.org">aarcover@austinhams.org</a>             |
| Technical (Repeater Contact) | Stuart Rohre    | K5KVH  | 512-255-3932 | <a href="mailto:k5kvh@arrl.net">k5kvh@arrl.net</a>                               |
| ARRL Travis Co. Emer. Coord. | Mark Esslinger  |        |              | <a href="mailto:ec@austinhams.org">ec@austinhams.org</a>                         |
| TC ARES PIO                  | Steven Polunsky | W5SMP  |              | <a href="mailto:tcares-pio@gmail.com">tcares-pio@gmail.com</a>                   |

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   |
|-----------------------|-----------|---|
| 146.880 107.2 PL Tone | No        | General   |
| 146.940 107.2 PL Tone | No        | Most popular, WX, Swapnet & Newsline            |
| 224.800               | No        |   |
| 444.100               | No        |   |
| 444.200 107.2 PL Tone | No        |   |
| 440.650 +5            | No        | 70cm D-Star Repeater [W5KA B]                   |
| 146.780/ -600kHz      | 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.

**AARCOVER Information** : ISSN 1067-0262, CODEN AAOVE3. ©Austin Amateur Radio Club, Inc. Published monthly by the Austin Amateur Radio Club, Inc.

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 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.



**For Changes in your ADDRESS, PHONE NUMBER or CALL SIGN:**

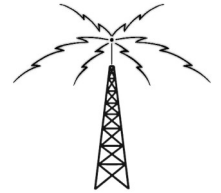
**See Jay Hoffman, KA5OST**

**ka5ost @ arrl.net**

**Jay handles all changes for membership information .**



# 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)

This is a pretty interesting article about how electricity is bought, sold and controlled in Texas.

Looking for a good read on modern antennas?

<http://www.radio-astronomy.org/library/Antenna-design.pdf>

**Forwarded by Rick Herndon, K5FNI**

This article is the best I've read in a long time. Obtaining this magazine and reading this article should be a must for anyone in the throes of doing what the subject says. Among the items covered are:

siting the bench in your house

building/adapting a bench

basic tools

most of the rest is centered on the test equipment you will want/need

**Nuts&Volts magazine, October, 2015, p. 22**

If anyone comes to you seeking this information, this is a good place to point them for a current view on it.

<http://www.nutsvolts.com/magazine>

**Forwarded By Rick Herndon, K5FNI**

## **AWESOME LINK OF THE MONTH!!!**

Oscilloscope Etch-a-Sketch?? Not quite. But worth a look and a listen

<http://makezine.com/2015/06/23/tripped-impressive-musical-drawings-oscilloscope/>

**Forwarded by Rick Herndon, K5FNI**

**Austin Amateur Radio Club General Meeting**

October 6, 2015

**Start time:** 7:02 pm      **Attendance:** 54      **Birthdays:** Lots of birthdays - Happy Birthday to you all!

Visitors in attendance: Mike Moore KG5JKV      Bob Rupe KF5HXW      Gaye Bailey KF5PWN

**New hams:** Mike Moore KG5JKV

**New members:** none

**Upgrades:** none

**Call sign changes:** none

**Approval of minutes:** approved as written in newsletter

**Announcements**

**Past events:**

Lots of people were at Belton.

**Upcoming events:**

**October 16-18:** Jamboree on the Air k5kub for troop 513, can also contact Jeff Schmidt, N5MNV

**October 31:** South Texas Hamfest, Aransas Pass Civic Center

**December 1:** Christmas party 7:00 pm - 9:30 pm at Abel's North, 4001 W Palmer Lane. Early registration: \$25/person, late registration (after November 23) will be \$30/person. Map will be put on the website.

**General announcements:**

dues - see Jay Hoffman, KA5OST or Lori Schmidt, KM5MQ

tshirts/polo shirts available - contact Lori Schmidt

**Officer reports**

**president:** none

**vice-president:** absent

**treasurer:** Jay has forms if anyone wants an AARC name badge. They will cost \$13 (including sales tax).

**secretary:** none

**Other reports**

**newsletter:** none

**technical:** none

**ARES:** Don Dudley, AC5YK: Simulated Emergency Test (SET) starts at noon. Please sign up if interested - contact Mark Esslinger at [tcares.org](http://tcares.org)

**BBHN:** Brian Wood, KF5GAH: no meeting in November or December. Future meetings will be changing to more of a hands-on format. Bring your equipment and let's play!

**AARC ladies:** none

**Old business** none

**New business**

**Lori:** Time for officer nominations. All positions are available. Nominations from the floor:

President: Don Dudley, AC5YK

Vice President: Lew Thompson, W5IFQ

Secretary: Angie Steelman, KF5ZXI

Treasurer: Jay Hoffman, KA5OST

Lori will close nominations, give folks not here a chance to see what is happening.

**Ham of the month Membership's choice:** any nominations?

Roger Wines, W5WIA, nominates Kerby Spruiell, KG5DLD. Congratulations, Kerby!

**Door prizes**

7: James Howard, Yaesu mousepad (He wasn't here: Deroy said to redraw) after redrawing:

52: Dallas Mellichamp, Yaesu mousepad

30: Frank Jared, quick charger

22: Brian Wood, Freescale journal

**Space weather** presented by Lew Thompson

**Meeting adjourned** 7:43 pm

**Presentation** Second half of movie from last month.



## Club Minutes

November 3, 2015

**Start time:** 7:03

**Attendance:** 46 **Birthdays:** Lots of birthdays - happy birthday!

**Visitors in attendance:** Kay Tresca, taking the exam next month. Good luck! Jim Austin KA2RVO

**New hams:** none

**New members:** Michael Moore, WA5AZQ

**Upgrades:** none

**Call sign changes:** Michael Moore, was KG5JKV and is now WA5AZQ

**Approval of minutes:** defer until next month

### Announcements

#### past events:

Kerby Spruiell - weather net activated. Still in need of pool of people to be net control operators. Send email to kg5dld@arrl.net if interested.

#### upcoming events:

**Nov 8:** MARS and amateur radio event to simulate a "solar interruption" (EMP) event. DOD is seeking amateur participation. (Point is to see how many counties can be reached.) The "event" will be Sunday between 3-6 am; net operations will start ~6 am on Sunday. All bands will be used, but no linked repeaters.

Joe Canfield, N5HPC: Nov 10 at 13:00 is multi-county hospital drill including ems and fire. If interested in participating, contact N5HPC@arrl.net

**Nov 11:** Tech vendor day at TechShop in Round Rock. (Check TechShop website.)

**Nov 13-15:** Highland Lakes HamSlam tech class. It's in the newsletter.

**Christmas party** - Tues Dec 1, from 6-9:30 or so at Abel's North. \$25/person. After Nov 23, \$30/person.

**Mitch London, KD5HCV:** Big Bend 50 marathon is coming, usually on MLK holiday weekend in January. Contact Mitch.

#### General announcements:

**Dues are due;** see Jay Hoffman, KA5OST or Lori Schmidt, KM5MQ

T-shirts and polo shirts are available, contact Lori Schmidt

#### Officer reports

**president:** none **vice-president:** none **treasurer:** none **secretary:** none

#### Other reports

**newsletter:** Mitch: If you're interested in being newsletter editor, contact Mitch. KD5HCV@arrl.net

**technical:** none

**ARES:** Roger Wines, W5WIA: There is still time for you to join ARES before 11/21. On 11/21 ARES will have a potluck and do some stargazing in Liberty Hill (star party). Meetings on 4th Tuesday of the month at 7:00. Don't have to be a member, but you are encouraged to join.

**BBHN:** Brian Wood: Major changes to Digital Wednesday. It will come back in January 2016 on a new night as BBHN-field training. Contact KF5GAH@yahoo.com for further information.. Also: Scout class this weekend - for merit badge and license. Contact Brian, KF5GAH for more information.

**AARC ladies:** none

#### Election day for officers: Nominations:

**President:** Don Dudley, AC5YK

**Vice President:** Lew Thompson, W5IFQ

**Secretary:** Angie Steelman, KF5ZXI

**Treasurer:** Jay Hoffman, KA5OST

#### Open for nominations from the floor:

**President:** none **Vice president:** none **Secretary:** none **Treasurer:** none

Nominations are closed. Slate of officers is approved by acclamation.

Lori Schmidt and William Moyes both expressed their appreciation for the opportunity to serve the club and for the support they received from the members.

**Old business** none

**New business** none

**Ham of the month** Scott Steelman and Jeff Schmidt

**Door prizes** Yaesu mousepad: Rick Kirchoff, NG5V(46) Yaesu hat: Deroy Howard, AA5R (33)

100th anniversary ARRL pin: James Austin, KA2RVO (29) Final note regarding the Christmas party: Mitch London (aka door prize getter guy) has lots of door prizes as well as items for a silent auction (~10 items). Dec 5th 2019 is the 100th anniversary of the club. On that day, there will be a Texas flag flown over the state capital which will be given out as a prize at the party.

**Space weather** Presented by Lew Thompson, W5IFQ.

Meeting adjourned 8:00 pm.

**Presentation** Lew Thompson, W5IFQ: Building the Ionosonde

## **AARCOVER Newsletter Looking for New Editor**

As you may have heard, I am stepping down as Editor for the AARCover. What is needed is someone to step up. Being the editor has been a very fun and interesting time but I feel after almost 13 years, it needs a fresh set of eyes and some fresh talent to keep it from being the 'same ole same ole' newsletter.

I spend maybe an hour and a half a month working on putting the newsletter together using Microsoft Publisher, a very easy program to use. So if you are someone who is interested in taking on this challenge, please contact me at [kd5hcv@arrl.net](mailto:kd5hcv@arrl.net)

I will work with you to help you figure what to do, where information comes from and how to put the newsletter together. After a short while, you will be on your way to being an even bigger asset to this club!

Thank you,  
Mitch London, KD5HCV

### **Snake Antenna**

By Stuart Rohre, K5KVH

The horizontal snake antenna can be raised to first story eaves height and makes an excellent NVIS antenna. The antenna can be an open loop around a house or dipole with ends folded around the ends of the house.

There are experiments to try on 160, that have been proved on 75m with low horizontal dipoles over a reflector wire on the ground. A five foot elevated dipole on 75m was found to be a good NVIS antenna by day, and after dark; to be capable of working skip to the WEST coast from Central TX. The signals were uniformly about S6 on SSB. But, easily worked on first call during several Field Days from two different locations! Raising the dipole higher under the eaves should still work well.

The low dipoles shun pickup of Summer static, and sky wave skip such that we think the anomalous West coast contacts are an NVIS directed wave that gets trapped into a cross country duct, until coming out over Eastern Washington State. A "chordal hop", I believe such is called.

If you are looking for a 160 experience with an easier to raise antenna, the NVIS experiment would be a way to have fun. Normally we use a half wave dipole, but models by L. B. Cebik, W4RNL (sk) showed that a dipole 60 per cent of full size still retained over 90 plus percent radiation efficiency. We use a reflector wire below the dipole that normally would be 5 per cent longer than the dipole, but so close to the ground, lengths equal to the dipole seem to work as well.

### **Antenna Matching**

By Stuart Rohre, K5KVH

The rig output and antennas have a term called Impedance. Impedance is resistance to alternating current, in this case RF. It is made up of two types of "resistance": The loss resistance plus reactance. You want the antenna to look like the impedance load in ohms that the transmitter is designed for. (Usually 50 ohms). Making them equal means maximum power will be transferred to the antenna.

Not just resistance, but you want to get low SWR by minimizing the other term, which is called reactance. Reactance is the loss due to capacitance or inductive effects which exist in all antennas at some frequencies.

Zero reactance is where low SWR is found. (Resonance). How to do that?

You design the antenna for 50 ohms impedance, which is what the transmitter also is, and that would make your impedance "matched".

If your antenna is imperfect, as all are at some frequency other than the design frequency, you use a tuner between the transmitter and the antenna. Tune to a minimum SWR and that will be practically, 50 ohms. This is a simplification of the story, but should help you understand Antenna Matching.

# The Austin Amateur Radio Club, Inc.

Membership Form - DATE \_\_\_\_\_

**Application for:** (check applicable box and enclose payment)

- AARC  Individual \$20  
 Family (all with same mailing address) \$30  
 Student rate (thru 12<sup>th</sup> 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 (\$10 Max)) \$ \_\_\_\_\_  
 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.

2<sup>nd</sup> Call \_\_\_\_\_ Name \_\_\_\_\_ ARRL mem **Y** **N**  
 3<sup>rd</sup> Call \_\_\_\_\_ Name \_\_\_\_\_ ARRL mem **Y** **N**  
 4<sup>th</sup> 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  Newsletter  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 20150207



The national association for  
**ARRL**  
 AMATEUR RADIO®

# Membership Application

New  Renew  Previous Member  Unlicensed

Name \_\_\_\_\_ Call Sign \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_

Email \_\_\_\_\_

Date of Birth \_\_\_\_ / \_\_\_\_ / \_\_\_\_ Phone \_\_\_\_\_

My Family Member is Joining or Renewing:

Name \_\_\_\_\_ Call Sign \_\_\_\_\_

Name \_\_\_\_\_ Call Sign \_\_\_\_\_

Please Note My New Address!

## Your Annual Membership Dues - Circle Your Choice/s.

|          | 1 Year | 2 Years | 3 Years |  |
|----------|--------|---------|---------|--|
| Regular  | \$39   | \$76    | \$111   | Monthly QST via standard mail for US members   |
| Canada   | \$49   | \$93    | \$132   | Monthly QST via standard mail for Canadian members   |
| Intl QST | \$62   | \$118   | \$167   | Monthly QST via air mail for international members   |
| Intl CD  | \$39   | \$76    | \$111   | Annual CD-ROM (QST, NCJ and QEX) for international members   |
| Blind    | \$8    | \$16    | \$24    | No QST delivery, all other member benefits apply   |
| Family   | \$8    | \$16    | \$24    | Reside at the same address as the primary member, no additional QST. Membership dates must correspond with primary member. |

If you are 21 or younger a special rate may apply. Contact ARRL for more details. Additional membership options available online at [www.arrl.org/join](http://www.arrl.org/join).

\$ \_\_\_\_\_ TOTAL

US Memberships include \$15 per year for subscription to QST. Dues are subject to change without notice and are non-refundable.

If you do not wish your name and address made available for non-ARRL related mailings, please check this box

Charge to:  Visa  MasterCard  Amex  Discover  Check Enclosed

Card Number \_\_\_\_\_

Expiration Date \_\_\_\_\_

Cardholder's Signature \_\_\_\_\_

Toll free (US) 1-888-277-5289 or 860-594-0200 ■ Online [www.arrl.org/join](http://www.arrl.org/join)  
 ARRL ■ 225 Main Street ■ Newington, CT 06111-1494 ■ USA

-----> The Austin Amateur Radio Club, Inc. <-----  
[www.austinhams.org](http://www.austinhams.org)  
 PO Box 4739, Austin, TX 78765-4739

## Club Dues for 2016 are now due!

2016 is almost here and dues for the new year are now due.

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 renewing member in 2016!

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**



## Ham-burgers at Watt-a-burger

A small group of Hams meet every Thursday (that doesn't fall on a holiday) at the Whataburger at the intersection of E. Oltorf St. and Bulerson Rd. We gather from 12:00-1:00 for lunch and most grab a burger for lunch, hence the name Ham Burgers at Watt-a-burger. Topics run the full gamut of Amateur Radio. Feel free to join us and bring your show-n-tell items.

Send Dallas your e-mail and you will get reminders. mylastname (at) yahoo.com

## Donate to AARC When You Shop on Amazon This Season

Did you know that when you buy products off of Amazon.com you can have a portion of that be donated to a non profit such as our club! It does not cost you anything extra; it just designates a part of the price to be donated to our club. <http://smile.amazon.com/about> for more info on the program.

When you shop at AmazonSmile, Amazon donates 0.5% of the purchase price to Austin Amateur Radio Club Inc. Bookmark the link <http://smile.amazon.com/ch/20-0316931> and support us every time you shop.

**AARC Meeting Info.**  
**Baby A's near the Arboretum**  
**9505-B Stonelake Blvd.**  
**(Come early and have dinner!)**

**Business Meeting 7:00 pm**

**December 1st—AARC Christmas Party**

**January 5th—NVIS (Near Vertical Incident Skywave) Theory and Practice by Lew Thompson**

**Officers Meeting**

**Officers meet via Skype and meetings are open to club members. Contact an officer for more information.**

**2015/2016 Upcoming Amateur Exams**

**ARRL VEC— December 5th & January 9th**  
 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 19th & January 16th**  
 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/>

**2016 Calendar of Events**

**Jan 9 2016 San Antonio Radio Club Fiesta**

Location: Schertz Civic Center 1400 Schertz Parkway, Schertz, TX 78154 Talk-In: 146.940 - (PL 179.9)  
 Contact: Rowena Archer, KF5JCZ 210-415-6894 [oldfwd-grandma@gmail.com](mailto:oldfwd-grandma@gmail.com) San Antonio Radio Club <http://w5sc.org>

**Jan 15-16 2016 North Texas Section Convention**

(Cowtown Hamfest)  
 Forest Hill Civic & Convention Center 6901 Wichita Street Forest Hill, TX  
 Cowtown Amateur Radio Club  
 Talk-In: 147.280 (PL 110.9)  
 David, KC5UYR 817-925-5126 [kc5uyr@compuserve.com](mailto:kc5uyr@compuserve.com)  
<http://cowtownhamfest.com>

**Jan 16 2016 25th Annual Lou Withrow Skywarn Class**

815am - 415pm  
 Location- ACC Eastview Campus, Building 8500  
 3401 Webberville Rd, Austin, TX 78702  
 NWS Basic/Advanced SkyWarn Training Instructor: Paul Yura, Warning Coordination Meteorologist  
 Hosted by Troy Kimmel KE5BCK [tkim-mel@mail.utexas.edu](mailto:tkim-mel@mail.utexas.edu)  
 NWS Austin San Antonio tweeting live during the session - #ATXSKYWARN  
[www.utexas.edu/depts/grg/kimmel/skywarn.html](http://www.utexas.edu/depts/grg/kimmel/skywarn.html)

**Upcoming Meetings...**

| <b>Dec</b> | <b>Jan</b> | <b>Austin Meetings/Happenings</b>          | <b>Time</b> | <b>Address</b>       |
|------------|------------|--|-------------|----------------------|
| 1*         | 5          | AARC Meeting Baby A's                      | 7:00 p.m.   | 9505 Stonelake Blvd. |
| 22         | 26         | Travis County A.R.E.S. Pickle Research Ctr | 7:00 p.m.   | 10000 Burnet Rd.     |
| 24         | 28         | CERT Meeting, CTECC                        | 6:30 p.m.   | 5010 Old Manor Rd.   |
| 7          | 11         | CTDXCC Meeting Old Quarry Library          | 6:30 p.m.   | 7051 Village Ctr Dr. |

*\*No regular AARC meeting. This is the Christmas Party Date. See Page 1.*

*\*\*\*NOTE Due to the holidays, some meeting dates may have changed\*\*\**

*If your club is listed here and has incorrect time or dates, please let us know!  
[editor@austinhams.org](mailto:editor@austinhams.org)*