

# Stone Mountain Georgia



## TOP OF THE ROCK

The Newsletter of the Alford  
Memorial Radio Club

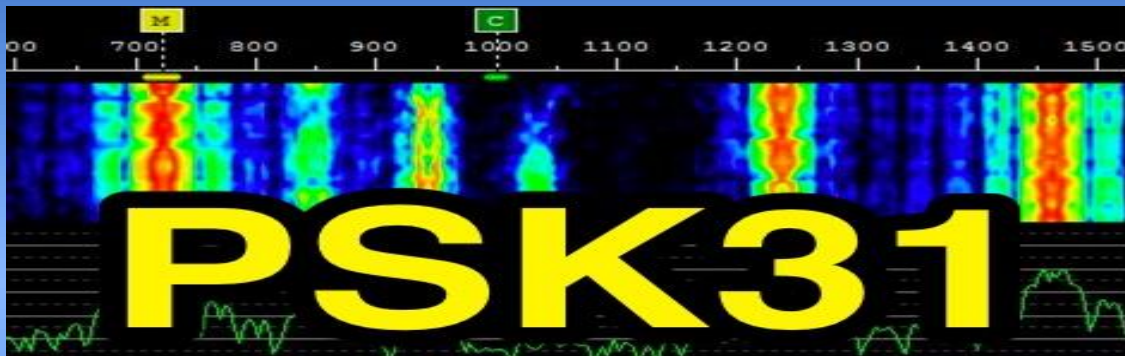
January 2016

<http://totr-radio.org/>



Next Meeting Jan, 14th

# Happy New Year



### January Issue Contents

- President's Notes
- Next Meeting Program, Repeater Info
- Pictures from Christmas Party
- Local Ham Events & Turnip Truck Net Info
- Articles "Journey to the G5RV Junior Antenna"
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January 2016

# Message from the President

*W*elcome to 2016! The New Year has begun, hopefully with not too big of a bang, but with the outlook of a great year to come.

*L*et us all work together to make the year 2016 a banner year for the Alford Memorial Radio Club. Help our membership by encouraging hams and non-hams that you know to become a new member, and don't forget to renew your own membership. Volunteer as many times as is possible for events the club participates in and join in on the nets sponsored by the club. Who knows, you might even hear the Brown Bag Lunch Bunch on the air from time to time. Check the 76 repeater out around 12 noon every once in awhile and you may just hear some familiar sounds.

*I*t's time to welcome our new officers that are leading our club into the future. Allison, AB4YL, is stepping in as Secretary to allow David, KB4UVV, to step down after serving for the past 9 years (2007 – 2015). And Gail, N2ART, is replacing Chris, KS4MM, as HamFest Chairman (or is that Chairwoman?). Chris was the HamFest Chairman for 4 years (2012 – 2015). Welcome Allison and Gail! I would like to extend to David and Chris more than just a "Thank You!" for your service to this club for all the time and effort given by you during your tenure in your respective positions.

*W*e will need to find a new Repeater Manager for this year as our good friend

Carter Bennett, K4CB, finally lost his battle with cancer just before Christmas. He will be missed by many as he was an amazing man and good friend to all hams. I considered him to be one of my best friends. So if you know of someone that might want to serve the club in the capacity as Repeater Manager please let me know.

*S*upport the other clubs in our area, as we are all in this great hobby together. Join several clubs, they all have something to offer. And don't forget the GARS TechFest on Saturday, January 9, 2016. It is always a great event and we need Alford members to support this event the same way GARS supports our HamFest.

*M*ay the year 2016 be good to you and your entire family. May you also live long and prosper!

*73 Steve, N4TTY*



# AMRC January Meeting Program

## *“PSK31 Basics”*

*Thursday January 14th, at 7:00 pm*

*Join us at Shans Rib Shack for supper before the meeting*

**Meetings are held at the Annistown Road Baptist Church  
at 4554 Annistown Road, Snellville, Ga. 30039**

The Alford Memorial Radio Club 76 Repeater is located on top of Stone Mountain, approximately 110 ft. up the TV transmission tower. Echolink is available on this repeater.



Located at Exchange Park, up and running beautifully,



In February of 2015 the old Micor 145 and 444 repeaters and the cabinets associated with that equipment were

replaced with brand new Kenwood commercial grade repeater equipment .



Being relocated to Exchange Park, currently not operational.

## **Kenwood TS-590SG Raffle**

**The club will be raffling off a Kenwood TS-590SG Radio.**

**Come to a club meeting or event to purchase your chance or chances to win.**

**Raffle tickets will be \$5.00 each or 5 tickets for \$20.00.**

**The drawing will be held at our February meeting on February 11, 2016.**



# Alford Memorial Christmas Party 2015





# TechFest

The Gwinnett Amateur Radio Society (GARS) will be hosting our annual TechFest in January. In recent years we have invited regional radio groups to participate by setting up a table with information about their activities and to demonstrate some type of amateur radio mode, method, technology or experience. This will be an opportunity for the community to become aware of the many modes of operation of Radio Amateurs and view some of the preparations taking place by public service volunteers in the Ham radio community. Unlike Field day, or the typical swap meet, this is not a contest or race. It is a chance to experience modes of our hobby that you might have never seen. Or to show your friends and family what Amateur Radio is about.

**RAFFLE** For TechFest 2016, we are raffling off a brand new Icom 7100.

Tickets are \$5.00 each, or 5 tickets for \$20.00.

Tickets will be available for sale at TechFest. GARS representatives will also try to visit area clubs with raffle tickets for sale.

We added an online ticket order option.

Orders may be made online. Order Raffle Tickets Here Multiples of 5 for \$20.00 only.

The drawing for the Icom 7100 will be held at 2:00pm at the GARS table.

You don't have to be present to win the raffle..

Numerous Door Prizes. MFJ-4230MV power supply  
Tytera DMR HT, W s/w  
ARRL gift certificates  
Many more..

Door prize drawings will be held throughout the day.  
You must be present to win.

**COST** General Admission: FREE

**WHERE:** Gwinnett Medical Resource Center  
665 Duluth Highway (GA-120)  
Lawrenceville, GA 30046

**WHEN**

Saturday, January 9th, 2016  
9:00am - 2:00pm  
Exam Session begins at 9:15am

## "Journey to the G5RV Junior Antenna" by Dale Lynch, AE8DL

No matter how expensive your rig or how many pieces of equipment you add to your shack, it won't work very well if you don't have a good antenna. When space is limited or you face restrictions of any kind, it can be very frustrating trying to find an antenna that will suit your needs.

Our yard is small so at first we tried using ham sticks in the attic without success. They were whips specifically for 20 and 40 meters. We could barely hear anyone and no one could hear us. When that failed, I made a homebrew dipole and hung it the length of our 50 foot attic. By stripping the insulation off of the solid 14 gauge wire, the dipole was able to be shorter and it fit just fine (removing the insulation was a chore, however). Don, KK4NJM, came over with his antenna analyzer and we got the SWR to about 2.5:1. Thank you Don! Unfortunately, this option did little more than set off our smoke alarm (I fixed that by wrapping the top of the alarm and all surrounding wire in aluminum foil). The antenna search continued.

My XYL Allison, AB4YL, found the G5RV online but it was too long for our yard. Then she noticed the G5RV Junior. Perfect! It is built to tune 80 through 6 meters. We have a row of 40 foot tall cypress trees along our property line and so then began the challenge of hanging the antenna in the canopy of trees. Removing the excess limbs was not a problem until reaching 22 feet. I had been using limbs to climb up to that point but did not trust the thickness of the limbs any higher. Borrowing my father-in-law's tree climbing spikes and belt, I tried to clear more limbs. I had to leave so many limbs in place that I could not use the spikes. What to do? We bought deer stand ladders from Academy Sports. Problem solved! I combined two of the ladders per tree in order to reach high enough to remove the necessary limbs.

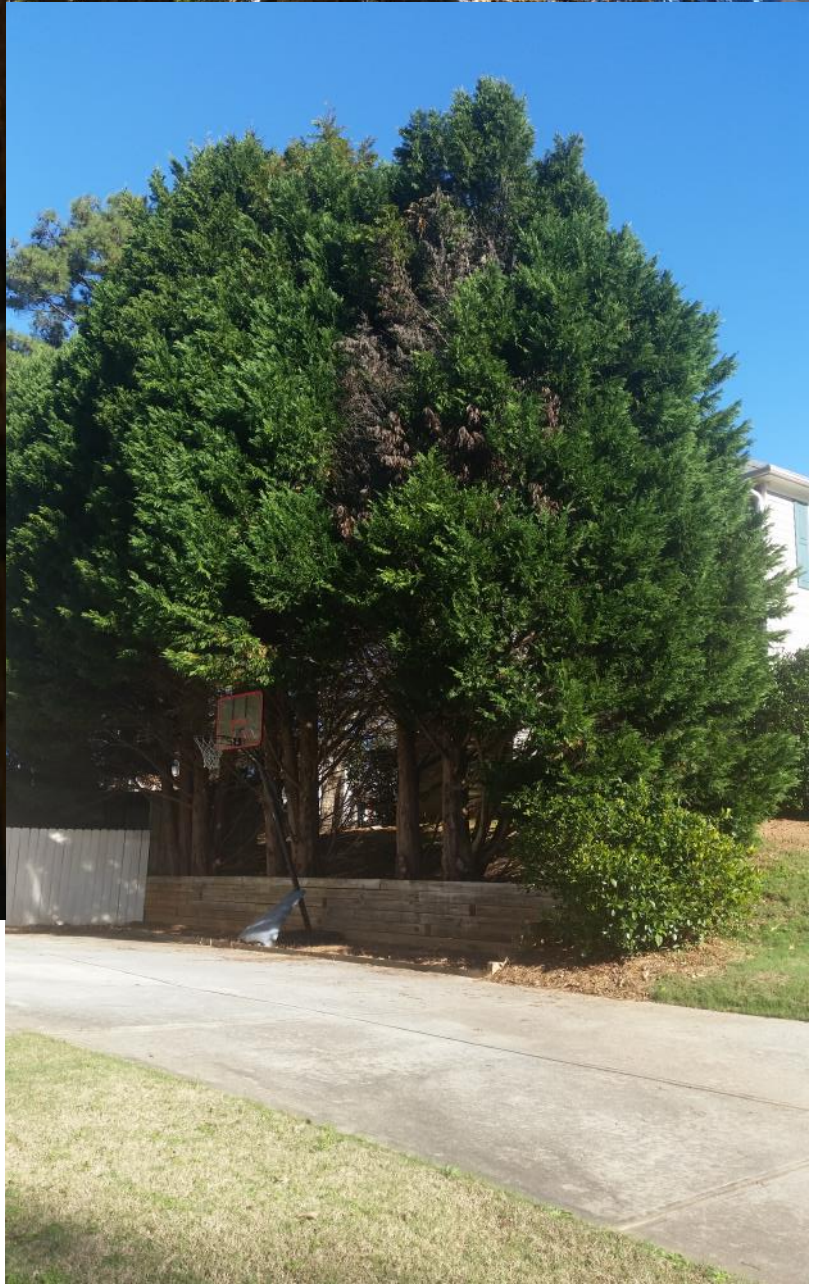
Finally, I reached 35 feet and attached an 18 inch angle bracket to support the pulley and antenna (and to bring it out from the tree). The pulley was added to make working on the antenna easier. I cleared a path to hang the antenna in an inverted V on both sides and used paracord from the insulators to the ground. Thanks to Don for coming over again with his antenna analyser to test our SWR.

The G5RV Junior directions recommend using a 2:1 balun at the bottom of the ladder line but you can greatly increase your signal strength by using a 4:1 balun. Thanks to Harold, KD8DVY, for recommending RogerTango.com for instructions on how to build one. With the 4:1 balun, 10 meters has come to life. Allison has been able to have a QSO with a station at 100 watts as far away as Croatia (5000 miles) on 20 meters. Not bad for a Junior inside a canopy of trees at 35 feet!

73,

Dale Lynch  
AE8DL

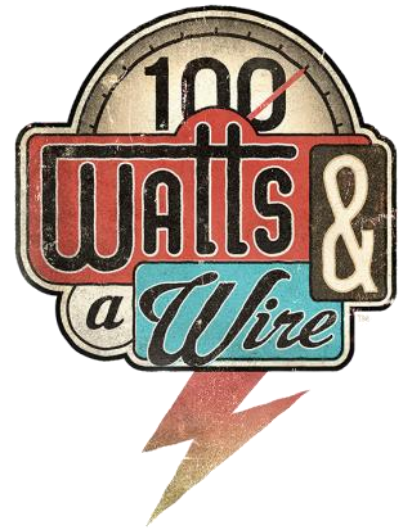




G5RV, Hidden  
in the trees.



# 100 WATTS & A WIRE



Created by Christian Cudnik, K0STH in May of 2015, 100 Watts and a Wire is a program celebrating amateur radio through the eyes of a new ham. The show features topical conversation and interviews, news and an entertaining look at the adventures of a ham trying to figure it all out. 100 Watts and a Wire is perfect for those who are new to ham radio, their Elmer's, the seasoned radio operator and the technically curious crowd. Whether you run 5 watt or 1500 watts, there's something for everyone.

Join Emmy winner Christian Cudnik, K0STH and Katie Allen, WY7YL for an inside a look at the world of amateur radio.

## 100 WATTS AND A WIRE [ON THE AIR]

**100 Watts and a Wire: Calling frequencies are 14287 and 7180. [+ or -]**

**100 Watts and a Wire NET is Thursday at 8p Central [02:00 UTC] on 7.180 [+ or -]** We begin 15 minutes before the Net with early and short time check ins.

## CHRISTIAN'S BIOGRAPHY

Christian Cudnik is an American broadcaster and producer. In 2015, he launched a podcast devoted to amateur radio called, 100 Watts and a Wire.

He is the Executive Producer and Host of National Blues Museum Radio. It debuted in St. Louis on the Radio Arts Foundation on February 7, 2014. Today, the show is syndicated to stations around the world including affiliates in the United States, Canada, Romania, New Zealand, Russia and the UK.

His early radio influences were Orson Welles, Chuck Thompson, Paul Harvey, Casey Kasem and Jon Miller. Christian began his broadcasting career in Baltimore, Maryland. During the early 1990's, he worked for heritage rock station WIYY before moving to Philadelphia. In 1998, he joined WMMR. Pierre Robert, Earle Bailey, Kevin Gunn and Steve Lushbaugh are considered major influences.

Christian attained the number-one-ranked radio program in Philadelphia, and was nominated for two AIR Awards including, "Best Field Reporting" and "Best Evening Program-Host". In 2003, he moved to St. Louis where he became a host for St. Louis Public Radio.

He has received both Emmy and Telly Awards for his TV work. His documentaries have aired on PBS, and include "Enduring Tradition: Ballet in the Heartland", "Collective Improvisation: The Story of Jazz in Saint Louis", "Seeking Freedom", "Uncovering Ancient Saint Louis", "Wallace Herndon Smith: Artist Without Boundaries", and "Footsteps into the World Beneath".

In 2010, Christian co- founded the non profit art organization, 'Ballet Initiative'. Ballet Initiative works to train dancers to dance and to raise the profile ballet. In August of 2013, he created the first audio podcast devoted to the art of ballet. [[balletinitiative.com/podcast](http://balletinitiative.com/podcast)]

His interviews include David Robertson, Semyon Bychkov, Joshua Bell, REM, Hamiet Bluiett, Roger Waters, Graham Nash, Aaron Neville, Peter Boal, Ashley Boudier, Jacques d'Amboise, Tiler Peck, Jock Soto, Nancy Buirski, Jennie Somogyi, and Heather Watts.



# AMRC Membership Page

## New AMRC Members as of January Meeting

### New Members:

**Total Members as of Dec. 1, 2015: 161**  
**Members as of Jan 6th**  
**79**

**Join us for our weekly  
breakfast gathering at  
7AM most Saturdays at:**

## **Metro Café Diner**

1905 Rockbridge Rd. *Stone Mountain, GA* 30087

**The following members are  
celebrating birthdays  
in January:**

**HAPPY BIRTHDAY!!**  
**From All of Us at AMRC**

Birthday by, K4GZZ

JAN 01 Jack Newton  
JAN 01 AI4UR George Olive  
JAN 03 N4EWT Newton White  
JAN 04 K4JLK Judi Kanne  
JAN 05 N2MFS Mike Stevenson  
JAN 10 KA4BNG Jean Sager  
JAN 11 KM4DEA Few Gunn  
JAN 12 KM4KNV Nicole Fallin  
JAN 12 K4JLJ Jared Lambert  
JAN 13 KK4YDS Jimmy Penson  
JAN 13 KJ4TZN George Batchelder  
JAN 16 KC4ME Frank Huggins  
JAN 19 W4GBK Gwyneth Butera  
JAN 26 KJ4SUL Ruth Primm  
JAN 27 AK4TL Clyde McClain  
JAN 28 KI4BNH Doug Jackson  
JAN 29 KM4OXG Theoan Le Doux

## **AMRC MEMBERSHIP**

To become a AMRC member, or to renew your AMRC membership, please visit our website—

[http://totr-radio.org/membership\\_files/membership.htm](http://totr-radio.org/membership_files/membership.htm)

To make changes to your AMRC membership (moved, new email address, new phone number, etc.), please email the Membership Committee - [steve.n4tty@gmail.com](mailto:steve.n4tty@gmail.com)

You can **renew or update** your Amateur Radio license information with the FCC at their website for free  
<http://wireless.fcc.gov/uls/index.htm?job=home>

To update your ARRL information, please visit their website - <http://www.arrl.org>

**Membership Chair:** Steve Garrison [steve.n4tty@gmail.com](mailto:steve.n4tty@gmail.com)

DX Contesting and Operations links.

#### 425 DX NEWS

Amateur Radio Lighthouse Society - World List of Lights

Announced DX Operations by NG3K

Asia (((DX))) Window (ASIA HF DX WebCluster)

BOLETIN DE DX EN ESPAÑOL by CE1RKV (Spanish)

DX News Letter by DL1EK & DL7VOA (at NG3K Web Site)

DX SUMMIT (last 250 DX-spots)

hfradio.org - propagation by NW7US

Hot DX Tips From the NJDXA by NA2M

IOTA (Islands On The Air) Web Site

LES NOUVELLES DX (French)

LY4A "Daily Dx News"

Near-Real-Time MUF Map

Propagation by N6RT

Solar Activity Information - from DX-Listeners' Club, Norway

The OPDX Bulletin - Internet Edition by KB8NW

#### **01/09/2016 | TechFest 2016**

**Location:** Lawrenceville, GA

**Type:** ARRL Convention

**Sponsor:** Gwinnett Amateur Radio Society

**Website:** <http://www.GARS.org>

#### **02/12/2016 | ARRL National Convention (Orlando HamCation®)**

**Location:** Orlando, FL

**Type:** ARRL Convention

**Sponsor:** Orlando Amateur Radio Club

**Website:** <http://hamcation.com>

## Stay In The Loop!!!!

Get email notification from you clubs events, updates, announcements. Sign up for these links:

<https://groups.yahoo.com/neo/groups/alfordmemorialradioclub/info>

<https://www.facebook.com/groups/AMRC.TOTR/>

<https://www.facebook.com/DekalbCountyEMA?fref=ts>

<https://twitter.com/StoneMtnRadioCl>



## Upcoming Club Events

### UP-COMING PROGRAMS FOR ALFORD MEMORIAL RADIO CLUB.

**January Digital PSK-31 Demo**

**February How Christmas Lights  
Interfered With The Repeater**

**March TBA**

## AMRC Officers and Committee Chairs

Steve Garrison,  
President

N4TTY



Mike Smith  
Vice President

KK4KHS



Allison Lynch, AB4YL  
Secretary



Barry Kanne, W4TGA  
Treasurer



Gail Massara, N2ART  
Hamfest Chairman



Gene Blackburn N4UJ  
W4BOC Trustee



George Olive .. AI4UR  
DeKalb ARES EC



Steve Vogel W4PSV  
Public Information Officer



Richard Dickson, W4WRD  
Apparel Coordinator



Chris Balch KS4MM  
Counsel



Steve Garrison, N4TTY  
Membership Chair

Al Hughes NZ4A  
Field Day Chair

Frank Haynes, KV4SP  
VE Team Chair



**Allison picked up her new  
call-sign Turnip Truck  
Badge from the "Sign  
Man".**

**Congrats Allison, and wel-  
come onboard the Turnip  
Truck.**



## Opportunities

**NORTHWEST DIGITAL NET:** The Northwest District holds a digital net every Tuesday evening at 7:30pm taking check-ins on 3.583 with PSK125 centered between 1000 and 1500 depending on nearby traffic. Look for NCS to be call sign W4NWG.

### Georgia State SECTION HF NETS!!!!

- Georgia ARES Statewide 3975 KHz 2200 UTC Sunday K4GK Net Manager
- Georgia ARES Digital 3583 KHz 2100 UTC Sunday K4GO Net Manager
- Georgia Single Sideband Net 3975 KHz 7 PM Daily KE4VPD Net Manager
- Georgia Traffic & Emergency Net 3982.5 KHz 7:15 Daily KI4NGD Net Manager
- Georgia Cracker Net 3995 KHz 7 AM M-Sa & 8 AM Sun AF4XZ Net Manager
- Georgia Traffic Net 7287.5 KHz (3587.5 Alt) Mon-Sat; WA0CGZ Net Manager
- Georgia Training (CW) Net 3549 KHz slow speed CW; 9 PM Daily; KG4FXG Net Manager
- Georgia State Net (GSN) 3549 KHz 7 PM & 10 PM Daily; K4GK Net Manager

## AMRC Recurring Calendar

- ◆ Monthly club meeting is the 2<sup>nd</sup> Thursday of the month at 7:00pm
- ◆ Every Sunday at 7:00 pm: AMRC Sunday Night Net on the 146.760 repeater.
- ◆ Every Sunday at 8:00 pm: DeKalb ARES Net on the 145.450 repeater.
- ◆ Every Saturday at 7:00 am: AMRC Weekly Breakfast, Metro Café Diner, Stone Mtn, Ga.
- ◆ Turnip Truck Net at 11pm Saturday Night

### ***Atlanta Track Club Needs You!!***

Volunteer opportunities for any radio amateur contact David Ziskind  
ke4qlh@arri.net

<http://www.atlantatrackclub.org/>

**January 23, 2016 - Peachtree City 8K & 15K - Peachtree City**

**February 6, 2016 - Hearts and Soles 5K - Georgia Perimeter College**

**March 5, 2016 - Be Healthy Georgia Day One Mile & 50m Dash - State Capitol**

**March 20, 2016 - Publix Georgia Marathon & Half Marathon\* - Registration opens mid-January**

**March 26, 2016 - Atlanta Women's 5K - Chastain**

**GARS needs help with the Cherokee Rose Cluster Dog Show**

**Feb 4,5,6,7, 2016**

See GARS homepage for info <http://www.gars.org/w4gr/>



# Club Member News Page



Its January 2016

## Club Membership Dues Are Due!

Individual \$25

Family \$25

Student \$15

Join ARRL \$49 per yr.  
and get your QST  
magazine monthly  
included.

[https://www.arrl.org/  
membership-levels](https://www.arrl.org/membership-levels)

You got to much  
stuff?  
Clean out your  
shack!  
List your stuff to  
sell in the  
TOTR!

## "AMRC DECEMBER NETS REPORT"

AMRC Net		DeKalb ARES Net			Turnip Truck Net	
Sunday Night Net			RF	Winlink		
Dec 6	27	Dec 6	19	9	Dec 5	7
Dec 13	19	Dec 13	18	?	Dec 12	6
Dec 20	20	Dec 20	16	9	Dec 19	10
Dec 27	18	Dec 27	14	8	Dec 26	11

## AMRC CALENDAR OF EVENTS FOR JANUARY

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
					<b>1</b>	<b>2</b> 7am 8am  Breakfast at Metro Café Diner  Turnip Truck 10:30pm
<b>3</b>  7pm AMRC Sunday Night Net  8pm DeKalb ARES NET	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>  7 am Breakfast at Metro Café Diner  Techfest  Turnip Truck
<b>10</b> 7pm AMRC Sunday Night Net  8pm DeKalb ARES NET	<b>11</b>	<b>12</b> GARS Meeting  7pm	<b>13</b>	<b>14</b> <b>AMRC Meeting</b>  7pm	<b>15</b>	<b>16</b> 7:00 Breakfast at Metro Café Diner  Turnip Truck 10:30pm
<b>17</b> 7pm AMRC Sunday Night Net  8pm DeKalb ARES NET	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b> 7:00 am Breakfast at Metro Café Diner  Turnip Truck 10:30pm
<b>24</b> 7pm AMRC Sunday Night Net  8pm DeKalb ARES NET	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b> 7:00 am Breakfast at Metro Café Diner  Turnip Truck Net 10:30pm
<b>31</b> Same as above						



## Metro Testing Sessions

*AMRC publishes Metro Atlanta VE exam schedules as a service and is not responsible for errors or changes. Call and confirm schedules before going. All sessions are walk-in. Take copies of current license and certificate of completed elements with you to all sessions. Find additional sessions online at*

<http://www.arrl-ga.org>.

### First Sunday, ODD Months

2 pm (Jan, Mar, May, Jul, Sep, & Nov)

VEC: WCARS

Braselton Public Utility Building

4986 Highway 53, Braselton, GA

Roger Gibson, WB4T

(770) 271-4210 or (770) 712-9560

[w4rlg@bellsouth.net](mailto:w4rlg@bellsouth.net)

### First Sunday, EVEN Months

2 pm (Feb, Apr, Jun, Aug, Oct, Dec)

VEC: WCARS

Hall County EOC

470 Crescent Dr. Gainesville, Ga.

Perry Roper, KO4RD

(770) 536-3056

### Second Saturday

10:00 AM

Alpharetta North Park, Adult Activities Center

13450 Cogburn Rd, Alpharetta, GA 30004

Ian Kahn, KM4IK

E-mail: [km4ik.ian@gmail.com](mailto:km4ik.ian@gmail.com)

### Second Saturday, ODD Months

VEC: ARRL

8:30 a.m.

GMC Community Ctr

5325 Leon St.

Stone Mountain, GA

Frank Haynes, KV4SP

(678) 467-3712

### Second Sunday

VEC: W5YI

2 pm

Gwinnett County Fire Station #5

3001 Old Norcross Road

Duluth, GA 30096

Contact: Dave Bruse, W4DTR

Email: [exams@gars.org](mailto:exams@gars.org)

### Third Saturday

VEC: W5YI

2 pm (Except December)

Lifeway Church

1654 Atlanta Highway #109

Steve Donellan, N5SMD

(404) 520-0368

Email: [n5smd@comcast.net](mailto:n5smd@comcast.net)

(continued in next column)

## Ham Exam Results

### Thanks to the following VE's.

Frank, KV4SP

Jeff, KC4CKN

Ed, WA4VFH

Jere, K4FUM

Steve, N4TTY

We are always looking for operators for the various hospital stations. If you are interested in taking on a hospital assignment, please contact Barry Kanne (W4TGA) via email at [w4tga@arrl.net](mailto:w4tga@arrl.net) for details. This will require your ability to operate the station for drills, exercises as well as real events. Barry Kanne, W4TGA, Assistant Section Emergency Coordinator - Public Health Georgia Amateur Radio Emergency Service.

### Fourth Tuesday

ARRL VEC

7 pm @ United Way Service Center

6279 Fairburn Rd., Douglasville

Jessie Clower, KB4WFK

(770) 942-6466

### Fourth Sunday

2:30 pm Georgia Tech

Van Leer Elec. Building

Rm. W218, 777 Atlantic Dr.

See [www.w4aql.com](http://www.w4aql.com)

Alexander G. Carver

(404) 894-2936

[acarver@ece.gatech.edu](mailto:acarver@ece.gatech.edu)

## Metro Club Meetings

### First Tuesday

Kennehoochee ARC

Downtown Marietta

Fire Station #1, Training Room

112 Haynes Street

Marietta, Georgia 30060

Meeting begins at 7:00pm

Talk In 146.880(-)

### First Thursday

Atlanta Radio Club

Georgia Red Cross HQ

1955 Monroe Dr., Atlanta

Meeting is at 7:30pm

Talk In -146.820(-)

N.E. Georgia ARC

Commerce Public Library

Meeting is at 6:30pm

Talk In - 147.225(+)

PL 123.0

### Second Monday

Georgia Tech ARC

Room W218

Van Leer Electrical

Engineering Bldg.

Georgia Tech Campus

Meeting at 7:00pm

### Second Tuesday

Gwinnett Amateur Radio Society

<http://www.gars.org/w4gr/>

EOA Building at Briscoe Field

Lawrenceville, Ga. Just off Hi Hope Road

Dinner at Flying Machine Restaurant at 5:30pm then meeting at 7pm.

### Second Thursday

Alford Memorial Radio Club

Annistown Road Baptist Church

Intersection of Annistown Road &

Spain Road, Snellville

Dinner at 6:00pm

Meeting at 7:30pm

Talk In - 146.760(-)

### Second Saturday

North GA QRP Club

Board Room of The

Shepherd Center at

2020 Peachtree Rd, NW, Atlanta

at 10:00 AM

### Third Tuesday

North Fulton Amateur Radio League

Alpharetta Recreation & Parks Dept.

Alpharetta Adult Activity Center

13450 Cogburn Road

Alpharetta, GA 30004

meeting at 7:30pm

Talk In - 145.47(-)



ATLANTA, GA:

Store Hours:

10AM-5:30PM Mon - Sat

Telephone hours:

9:30AM-5:30PM Mon-Sat

TOLL FREE: 800-444-7927

LOCAL: 770-263-0700

FAX: 770-263-9548

EMAIL: atlanta@hamradio.com

Store Mailing Address:

6071 Buford Hwy

Atlanta, GA 30340-1364





## L&M Mobility

Robert (Mike) Smith  
5191 La Paloma Dr.  
Lilburn, GA 30047  
Phone (404)-509-3104  
[Smithrm70@hotmail.com](mailto:Smithrm70@hotmail.com)

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**Jim Massara,**  
**N2EST**  
[n2est@hamtoons.net](mailto:n2est@hamtoons.net)

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# QST

DEVOTED ENTIRELY TO

# AMATEUR RADIO

PUBLISHED SINCE 1915 BY THE AMERICAN RADIO RELAY LEAGUE INC.

**A Double-Detection Receiver**  
with  
**Band-Pass Filter**  
and  
**Screen-Grid Tubes**



*in this issue*

**MARCH 1928 25¢**

