



# November 2018



## The Newsletter of the Alford Memorial Radio Club

### Winner Winner Chicken Dinner!



#### November Issue Contents

- President's Notes and Meeting Info
- Membership and Birthdays
- DMR Update – Barry W4TGA
- Hamfest Photo Gallery
- Famous HAM W6CAB
- Agnes Scott Information
- November Homebrew
- Buy, Swap, and Sell
- Once Upon A Ham Fest
- Nov Calendar/ Net Numbers



# President's Notes October 2018

Thank you to everyone who came out to help make this year's Hamfest happen. With the members of both AMRC and GARS, we had plenty of help all three days and most every part went smoothly. Now we can start planning for next year. I hope all of you are on the nice list, so your letters to Santa will be fulfilled with all those new radio toys you've had your eyes on. Please sign up for our holiday club social. Go to [www.totr/radio.org](http://www.totr/radio.org) to sign up, or click [here](#).

We have a couple of weeks to get ready for helping with the Christmas Parade (December 1, 2018). Please sign up with DEKALB ARES to assist in their event. More announcements will be on the Dekalb ARES groups io page and the Sunday Night Dekalb ARES net. Subscribe to those and check them out for more information. Click [here](#) to volunteer for the parade.

Remember to pay your club membership dues, as our membership year ends for everyone on Dec. 31 st. Avoid the rush and get your renewals in early, only \$30 for single or family per year. Alford Memorial Radio Club is very active and has lots of expenses.

Your membership dues may seem like a very small amount when it comes to our

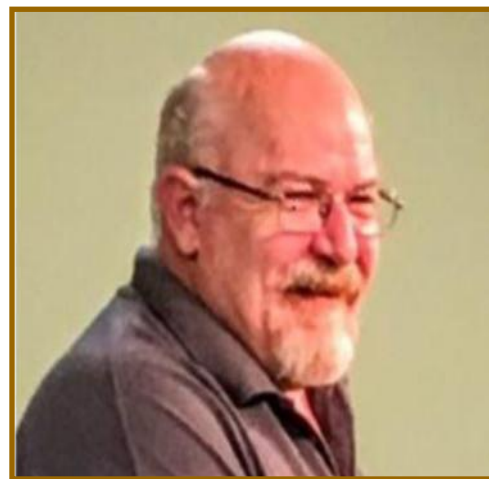
overall expenses, but every little bit helps. Let's shoot for a record number of new members this year. Everyone find someone to mentor as a new ham and get them to join the club. All of you can be an Elmer and I guarantee you that you will love the experience of getting someone started in this wonderful hobby that we enjoy so much.

I want to thank everyone who helped at the Hamfest. For those of you who were unable to help this year, you missed a fun time. Hamfest is where we earn the bulk of our funding for the club year. We're very fortunate to have such an active club.

That's it for this Month!

73,

Mike Smith, KK4KHS



# AMRC December Holiday Party

**December 13, 2018  
7pm  
The Fellowship Hall  
Annistown Road Baptist Church**

**Please RSVP by Midnight on December 5, 2018  
Click [Here](#) for the Reservation Form**

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

Since February of 2015 Kenwood commercial grade repeater equipment has been located at Exchange Park.



## **BREAKING NEWS! It is on the AIR!**

The Alford Memorial Radio Club has purchased the FIRST club sponsored DMR repeater in Georgia.

**And as of October 31, 2018, The DMR Repeater is on the Internet!**

The frequency is 441.8125 MHz with a +5 MHz offset. It uses Color Code 1.

**There are test code plugs on the club's Groups I/O page. More code plugs will be available as members develop them.**

# AMRC Membership

**As of Nov 1, 2018**

**Total Memberships=150**

**Welcome New Members:**

John Kemker, W5NNH  
Donna Cable, KN4OUM  
Greg Kiker, KI1KER  
Tina Kiker, KI2KER  
Bill Perkins, KB4KFT

## **AMRC** **MEMBERSHIP**

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

<http://totr-radio.org/membership/memapp.htm>

To make changes to your AMRC membership (moved, new email address, new phone number, etc.), please email the Membership Chairman-[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, N4TTY

**Club Dues Help Support  
Our Repeaters and Club  
Activities**

**Club Membership Renewals are  
due in January 2019.**

# HAPPY BIRTHDAY!!

**From All of Us at AMRC**

Birthdays by Steve N4TTY

NOV 04 AB4NW Karen Whited

NOV 06 W4KXM Larry Fussell

NOV 08 KF4PWI Scott Hartlage

NOV 09 AI4UQ Carolyn Olive

NOV 09 AJ4XI Jim Popoff

NOV 12 KB4JHX Buzz Ashby

NOV 12 W1MKW Gretchen Mann

NOV 12 N0NCQ Nick Nikley

NOV 14 AB4YL Allison Lynch

NOV 14 KM4ONE William Wisenburg

NOV 15 Elaine Honeycutt

NOV 16 N3ACK John Talipsky

NOV 16 KK4SWJ Jennifer Dreggors

NOV 17 KX4FW Sharon Foster

NOV 19 KI4BQS Kenneth Dalton

NOV 20 K4KQK Jerry Wilson

NOV 21 K0EHL Randy Koehl

NOV 22 KN4OLG Carlene Parker

NOV 24 KJ4QIB Puddin Garrison

NOV 27 KM4FMW Donna McCord

NOV 30 N4XHJ David Mitchell



## **DMR has come to Stone Mountain, courtesy of the Alford Memorial Radio Club– W4TGA**

Over the past few months interest has been building in the acquisition and operation of a DMR (Digital Mobile Radio) repeater at our primary repeater site on the top of Stone Mountain. This is a new type of technology for our members to use and will provide a comparatively low cost way to get into 21<sup>st</sup> century mobile communications.

DMR was developed by the European Telecommunications Standards Institute (ETSI) as a way to provide commercial, high quality two-way radio communications while reducing the occupied bandwidth of the radio spectrum. It has been immensely successful in much of the developed world and had found its way to the USA in the form of Motorola branded MotoTurbo. In fact, our base station is a MotoTurbo model that we repurposed to amateur radio use. Here is a photo of the repeater unit:



One of the main advantages for our club members is the low entry cost into this new and growing field. Traditional digital radio systems have come with a price tag that kept many from participating. To layout \$500+ for a HT was a very steep hurdle for most of us to climb. DMR HT models run from \$80 to \$180 and are coming down in cost as time passes. Now digital voice communications is within the grasp of most of our members.

Our repeater at Stone Mountain provides two voice paths, known as Time Slots. Each time slot can support a separate conversation without any interference to the user on the other time slot. And because we have doubled our voice throughput while cutting RF bandwidth in half, we are providing a new technology that offers growth without being concerned about overcrowded spectrum in urban areas like Atlanta.

The repeater has an output of 50 watts into a 4 cavity duplexer which costs us about 10 watts of power with about 40 watts headed to the antenna, under the dome. The same antenna, with a rated 7dB gain, supports the receiver, also via the duplexer and the

effective coverage seems to be very similar to what we have found with our existing 2 meter station at double the power and with a receive antenna high on the TV tower. There is a net gain in perceived performance with digital that will work to our advantage over time.

The amateur radio DMR network is world-wide and tied together by computers via the internet. There are several network operators supporting repeaters like ours around the world. Ours is currently connected to the K4USD.ORG network. Take a look at their website to see the list of available places and networks with whom we can now communicate.

As this is all new to us, we looked to Tom Power (W8RED) who came to our club meeting over the summer to give us a detailed presentation about “What is DMR?” Tom operates some DMR repeaters in the Atlanta metro area and can speak from his experience on the “do’s and don’ts” of DMR operation. We followed Tom’s model and sourced the repeater from a north Georgia Motorola dealer who also happens to be a ham. Ken Bryant (K1DMR) provided the club with the equipment at a reasonable cost so we could begin our journey.

Tom also is using the K4USD.ORG network to support his repeaters and so we elected to go with them for world-wide network support. This may change over time, but it gave us a solid known base from which to launch our new adventure.

Today, our system is up and operating at full power. It has been under test for about 3 weeks at ½ power to see how far we could reach under less than ideal circumstances. The list below is the current talk group and time slot assignments for our initial launch. We will be looking for member reaction to our initial grouping and anticipate we may change some talk group assignments over time.

The channels with the X are considered “full time” users of the Time Slot to which they are assigned. That is, if nothing else is using that time slot, then the one with the large X is there. Other Talk Groups with the small x are available on a Push-To-Talk basis. That is, if for example you wanted to use the Tennessee Statewide Talk Group (3147) then you can select that by having it as a part of your Code Plug and simply hitting the PTT on your radio.

**(DMR Continued )**. If that Time Slot (TS2) is not in use, then you will be switched to the Tennessee State-wide Talk Group and as long as you use the PTT with that group once every 5 minutes, you will maintain that talk group on time slot 2. However, if you stop using that talk group for 5 minutes, the time slot will revert to it's normal use with the Georgia Statewide talk group.

You may select ANY of the talk groups shown on the chart above, but the ones with the small x are recommended by both Tom Power and John Burningham who operates the K4USD.ORG system. So for example, if you have a Contact set up in your code plug for the Massachusetts Statewide talk group (3125) you may select it just like any other talk group on Time Slot 2. The same 5-minute rule will apply.

THERE WILL BE A QUIZ AFTER YOU READ THIS. (Just kidding)

This system will teach us a new language with terms such as: Code Plug, Time Slot, Color Code, etc. As the holidays are upon us it may be difficult to find a free 3-4 hours to hold a get together so we may all start speaking the lingo. But we will try.

In the meantime, we have posted a basic Code Plug for the TYT model MD380 HT so you can get started with one of the lowest cost, but reasonably high quality radios.

Several of our members have already acquired radios and have been doing range testing of the system while it was in its test mode. Any of them will be happy to share what they have learned and in no time you will be-

W4BOC (rev. 20180922)

Recommended TGs for typical users are marked with an "x" (PTT) or "X" (Full-time), I would also program a DMR simplex and 446.000 analog simplex for a total of 16 channels

Talk Group	TS	TG#
AllCall	1/2	1677215
X ATL Metro	1	8 (FT)
x BMA-NA	1	93
x BMA-WW	1	91
x Bridge	2	3100
Comm1	1	3777215
Comm2	2	3777216
Crossroads	2	8710
DCstate	2	3111
DEstate	2	3110
DMR-US4	1	133
x FLstate	2	3112
x First Coast	2	31121
X GAstate	2	3113 (FT)
ILstate	2	3117
INstate	2	3118
JOTA	2	907
JOTA TAC1	2	9071
JOTA TAC2	2	9072
KYstate	2	3121
x Local2	2	2
x Local9	1	9
x Local9	2	9
MAreg	2	3173
MAstate	2	3125
MDstate	2	3124
MIstate	2	3126
MNstate	2	3127
MTreg	2	3177
MTWreg	2	3169
x NA-Call	1	3
NET 31001	2	31001
NEreg	2	3172
NYstate	2	3136
OHstate	2	3139
PAstate	2	3142
x Parrot	2	9998
SCstate	2	3145
SEreg	2	3174

SPreg	2	3175
SWreg	2	3176
TAC1	2	8951
TAC310	2	310
TAC311	2	311
TAC312	2	312
TAC313	2	313
TAC314	2	314
TAC315	2	315
TAC316	2	316
TAC317	2	317
TAC318	2	318
TAC319	2	319
TNTEN	2	314710
x TNstate	2	3147
TXstate	2	3148
UA All1	2	119
UA All2	2	120
UA Eng1	2	113
UA Eng2	2	123
UA Ger1	2	110
UA Ger2	2	120
UA Spa1	2	114
UA Spa2	2	124
USA	2	1776
VAtate	2	3151
WIstate	2	3155
x WW-Call	1	1
WWE-Call	1	13
WWG-Call	1	10
WWS-Call	1	14

# 2018 Stone Mountain HamFest



**The Repeater Whisperer**



**Well Deserved. Congrats Zargon!**



**Congrats to Anthony for his Winning Go Box**



**The AMRC congratulates Johnny on achieving his Extra License at the Ham Fest. The Future of HAM Radio.**





The Hiram Percy Maxim  
Award Winner...  
Ruth  
KM4LAO







9 Nov 2018



# Famous HAM Vi Barrett W6CAB

Go To <https://www.ocregister.com/2018/09/20/one-of-fbis-first-female-dispatchers-continues-to-bust-stereotypes-from-her-fullerton-living-room/>

Click [here](#) to read the  
article on Vi Barrett, One of the FBI's First Women



**Public Information Steve Vogel W4PSV**  
**AGNES SCOTT OBSERVATORY &**  
**SHACK OPEN HOUSE**  
**SCHEDULE 2018-19. Bradley Observatory and**  
**Delafield Planetarium 8-9pm**

**December 14, 2018:** Gongjie Li (Georgia Tech) Obliquity Variations of Stars and Planets: Hints on the Formation and Habitability of Exoplanets

**January 2019:** No Open House

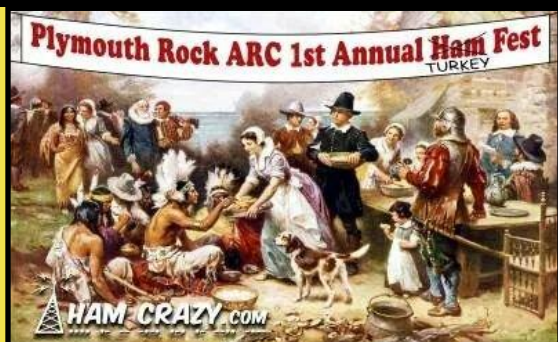
**February 8, 2018:** Chris De Pree (Agnes Scott College) - Other Worlds in Science Fiction

**March 22, 2018:** William A. Calder Spring Equinox Concert

**April 12, 2018:** Alumna Lecture & Open House

**May 3, 2018:** Kevin Marvel (American Astronomical Society)

For more information about the Agnes Scott Partnership or events, please contact Steve Vogel at [svgec@bellsouth.net](mailto:svgec@bellsouth.net). For Directions Click [here](https://www.agnesscott.edu/maps-directions.html). Or copy and paste the following <https://www.agnesscott.edu/maps-directions.html>



**Merchandise from Alford Memorial Radio Club**

Stop by the Merchandise table at the next AMRC meeting and order your Ham vest, check out the new AMRC polo shirts with club logo and your call sign. See Greg Mann KM4RKT or email him at [km4rkt@gmail.com](mailto:km4rkt@gmail.com) with questions about items, or size and cost.

Greg can now accept Credit/Debit (Including chip cards), Google Pay and Apple Pay to make purchasing your apparel needs easy.

## 2018 AMRC Officers and Committee Chairs

Mike Smith, KK4KHS  
President  
[smithrm71@yahoo.com](mailto:smithrm71@yahoo.com)



Pat De Loe, N4MPC  
Vice President  
[patdeloe@gmail.com](mailto:patdeloe@gmail.com)



Allison Lynch, AB4YL  
Secretary  
[allison48fan@yahoo.com](mailto:allison48fan@yahoo.com)



Greg Mann, KM4RKT  
Treasurer /Apparel Manager  
[km4rkt.greg@gmail.com](mailto:km4rkt.greg@gmail.com)



Gene Blackburn, N4UJ  
W4BOC Trustee  
[g.blackburn@ieee.org](mailto:g.blackburn@ieee.org)



Jim Penland, N4RAR  
DeKalb ARES EC



Steve Vogel, W4PSV  
Public Information  
[svdec@bellsouth.net](mailto:svdec@bellsouth.net)



Steve Garrison, N4TTY  
Membership Chairman  
[Steve.n4tty@gmail.com](mailto:Steve.n4tty@gmail.com)



Jim Penland, N4RAR  
Counsel



Zargon  
Field Day Chair



Frank Haynes, KV4SP  
VE Team Chair



Gretchen Mann, W1MKW  
TOTR Editor  
[gretchelby@gmail.com](mailto:gretchelby@gmail.com)





## EXTRA! EXTRA!

### Ares State Net Listings:

#### 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

Georgia ARES Web Site, Check it out!!!

<https://gaares.org/index.php>

## Peach Corner November Recipe

### Slow Cooker Cream Corn

- 8 ounces cream cheese, cut into pieces
- 1 cup whole milk
- 1/2 cup heavy cream
- 1/4 cup (1/2 stick) unsalted butter
- 3 tablespoons granulated sugar
- 1 teaspoon kosher salt
- 2 pounds frozen corn
- Optional: black pepper

1. Combine ingredients in slow cooker. Stir to combine. Cover and cook on low for 4 hours. At about 3 hours it will completely come together. Allow to cook for the full 4 hours for the best results.
2. Add black pepper to taste.  
Serve and enjoy.

Add a little Milk to it if it sits and congeals or will be in the cooker heated for a while.

HAPPY THANKSGIVING!  
W1MKW– Gretchen Mann

- ♦ 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



# November Homebrew



Our November Meeting was the Annual Homebrew Meeting. Pictured Top Left, Beau KM4YMI, Top Right Gene N4UJ, and Bottom Left, Steve N4TTY. All were sharing their homebrew projects.

The Totr thanks Judy Kanne, K4JLK, for submitting these photos from the Homebrew meeting.

# Buy, Swap, Sell

Kenwood TS120s - 100 watts ...with power supply. \$100.

Yaesu FT-920 -100 watts - bands 6 thru 160. No power Supply. Internal antenna tuner does not work. \$600.

Contact Karl Phillips K4GZZ

K4GZZ.karl @[gmail.com](mailto:k4gzz.karl@gmail.com) or call cell - 770-617-5723

## Once Upon A Ham Fest

Way back in 1960 (I think) my dad's friend Walt Crowe, W4FWH, who was licensed as 4AQ back in 1923 (that's another story in itself), invited me to ride with him up to the Rome, GA hamfest. I had already been to a few hamfests in my short ham career, but I jumped at the chance to go with Walt. He reminded me of Hiram Percy Maxim, with the requisite moustache, pipe, and gray hair, just like the founder of the ARRL.

Walt picked me up one fine Saturday morning and we proceeded to drive to Rome. The hamfest was out in the country at what looked like a campground of sorts, with log cabins and a big barbeque pit.

As I remember it, there were no vendors and few if any "tailgaters". I do not remember a flea market" area, either. It was more like a .... picnic! I do remember that there was a "talk-in" station on 75 meters. Most hams with mobile units operated on the 75 meter or 10 meter bands, with big antennas attached to their car or truck bumpers. There were no repeaters back then, so 2 meters was the province of home station experimenters like Walt, who was one of the pioneer VHF/UHF operators in the Atlanta area. The "talk-in" station consisted of a Collins 75A receiver and 32V transmitter with a combined weight of around 200 lbs. which took up most of a big heavy table.

The OT's were drinking beer from Dixie cups and the smell of barbecue filled the air. Suddenly someone yelled "Here come the Alabama folks". A caravan of cars, most with big 75 meter whip antennas, appeared on the road to the camp.

Walt said that a movie was going to be shown in one of the cabins. We went over to watch it, and I found out that it was a home movie made at the Rome hamfest in the 1930's! Lots of shots of old cars, and it looked like they were at the same spot where we were! Several of the people recognized themselves and other hams, both living and silent keys, in the film, and let it be known with loud expressions of acknowledgment. What an experience! After a great barbecue lunch, we headed back home to the (modern) 1960's. Of all the hamfests that I have ever attended, that one stands out as truly unique. Walt W4FWH, ex 4AQ, passed away in the mid 1980's, but I'll be forever thankful that he asked a young 16 year old ham to go to the Rome hamfest.

Gene, N4UJ

ex: K4UJS, KN4UJS, WG6AHH (Guam, not California); also (unofficial) cw operator in the USN aboard ships NHNF and NIIZ (1966-1968). No, I DID NOT have a bug (speed key) license and I was an ET, NOT an RM, Hi!



# AMRC November 2018

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3 7AM Breakfast At Hardees  11pm Turnip Truck Net
4 7pm Sunday Night Net  8pm DeKalb ARES Net	5	6	7 8pm Em Comm Rag Chew	8 7pm Monthly Meeting Annistown Road Baptist Church	9	10 7AM Breakfast At Hardees  11pm Turnip Truck Net
11 7pm Sunday Night Net  8pm DeKalb ARES Net	12	13	14 8pm Em Comm Rag Chew	15	16	17 7AM Breakfast At Hardees  11pm Turnip Truck Net
18 7pm Sunday Night Net  8pm DeKalb ARES Net	19	20	21 8pm Em Comm Rag Chew	22 	23	24 7AM Breakfast At Hardees  11pm Turnip Truck Net
25 7pm Sunday Night Net  8pm DeKalb ARES Net	26	27	28 8pm Em Comm Rag Chew	29	30	

## Activities

Date	Event	Website	Location / Notes
Monthly	Club Meetings	First Thursday of Month →	Atlanta Radio Club <a href="http://www.atlantaradioclub.org">www.atlantaradioclub.org</a> (Atlanta)
		Second Tuesday of Month →	Gwinnett Amateur Radio Society <a href="http://www.gars.org">www.gars.org</a> (Lawrenceville)
		Second Thursday of Month →	Alford Memorial Radio Club <a href="http://www.totr-radio.org">www.totr-radio.org</a> (Stone Mountain)
		Third Tuesday of Month →	North Fulton Amateur Radio League <a href="http://www.nfarl.org">www.nfarl.org</a> (Alpharetta)
Second Saturday of the month	North GA QRP Club meeting	<a href="http://www.nogaqrp.org">www.nogaqrp.org</a>	This small, but growing, group of amateur radio enthusiasts, most of whom are within 90 miles (and more) of Atlanta, are interested in promoting the development of low power amateur radio known as QRP. Meetings are normally held at the Shepherd Center, 2020 Peachtree Rd., NW Atlanta, GA 30309
Second Sunday of the month	Sunday Tech	<a href="http://SecondSunday.tech">SecondSunday.tech</a>	2:00 – 5:00 PM at the DeKalb Peachtree Airport. This is a monthly hands-on technical session for hams and people interested in Amateur Radio activities. Check website for any changes in location.

**DECEMBER 1, 2018**

**Volunteer to help with communications at CHOA's Annual Holiday Parade.**

**To Sign up go to [https://forms.office.com/Pages/ResponsePage.aspx?id=egLBsOBuOkSg6Oq9UyKRzdK8g0vtYnRJtRljKr-](https://forms.office.com/Pages/ResponsePage.aspx?id=egLBsOBuOkSg6Oq9UyKRzdK8g0vtYnRJtRljKr-XPtUMIVXWDBUVkxVNIRENEtXOEJTUkhBSzcySy4u)**

**[XPtUMIVXWDBUVkxVNIRENEtXOEJTUkhBSzcySy4u](https://forms.office.com/Pages/ResponsePage.aspx?id=egLBsOBuOkSg6Oq9UyKRzdK8g0vtYnRJtRljKr-XPtUMIVXWDBUVkxVNIRENEtXOEJTUkhBSzcySy4u) Or Click Here .**



### OCTOBER NETS REPORT

AMRC		DeKalb ARES			Turnip Truck	
Sunday Night Net			RF	<u>Winlink/DRats</u>		
OCT 7	27	OCT7	12	9/7	OCT 6	15
OCT 14	30	OCT 14	12	9/7	OCT 13	9
OCT 21	34	OCT 21	16	10/8	OCT 20	12
OCT 28	31	OCT28	14	9/8	OCT 27	11



## HRO ATLANTA, GA:

### Store Hours:

10AM-5:30PM Mon - Sat

### Telephone hours:

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

LOCAL: 770-263-0700

FAX: 770-263-9548

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## L&M Mobility

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## Gentlemen Start Your Engines

[https://www.facebook.com/groups/AMRC.TOTR/ref=br\\_rs](https://www.facebook.com/groups/AMRC.TOTR/ref=br_rs)

Or Click [HERE](#) to see the HAMFest  
Drag Race.



## ARRL Contest Calendar

<http://www.arrl.org/contest-calendar>  
Click [Here](#)



Join us for  
Breakfast  
every Satur-  
day am at  
7AM . Meet  
us at Hardees  
on **5259**  
**Stone**  
**Mountain**  
**Hwy, Stone**  
**Mountain, GA**  
**30087.** Start  
Your Morning