

# **Active Shooter Response: Actions for the Unexpected**

presented by  
**Jamie Wright, W4ABE**

Seconds matter during an active shooter incident. Be introduced to the tactics for response that improve your chances for survival.

**00:01:02.73**

Monday, May 14, 2018

7:00 p.m.

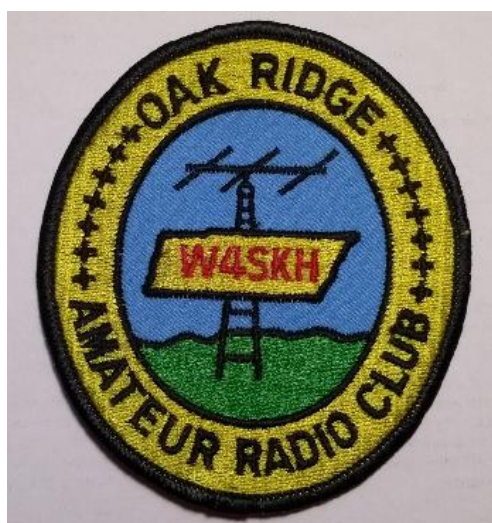
Board Meeting at 6:45 p.m.

**First United Methodist Church**  
**1350 Oak Ridge Turnpike, Oak Ridge, TN**

## President's Overtones, by Jim Bogard, KY4L

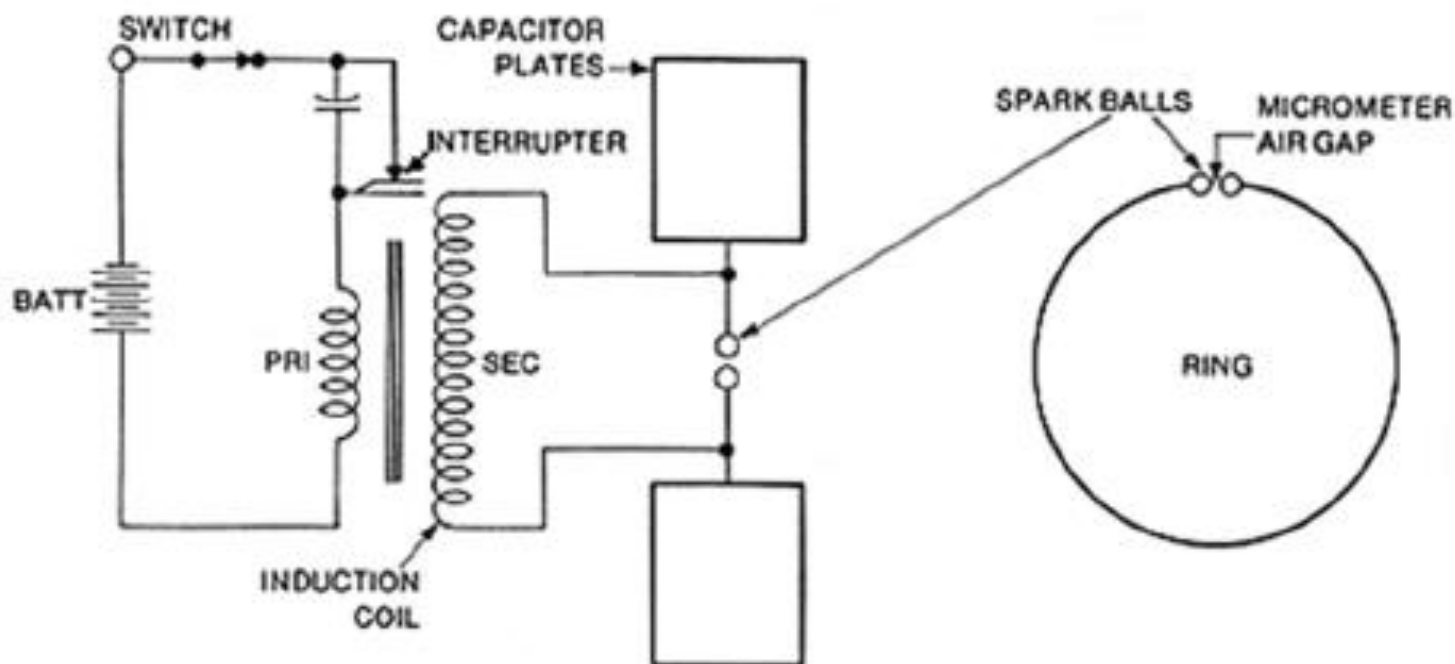
QSO Party season is well underway. Several states have already had their contests, but there are more to come from now through Fall. Amateur radio contests and CW traffic nets are the best way I know to get your code speed up. Put the mic away, blow the dust off your key(er) and jump in there. The 'Search and Pounce' technique is a safe way to get started, since the big guns with strong signals will stay on one frequency and give their calls over and over, giving you plenty of chances to be sure you have it right before responding. Calling CQ is a better way to up the code speed, since you have one chance at correctly copying the answering station's callsign before having to ask for fills. There's nothing like fear to sharpen the senses, but you should be ready to try this by the time the [Tennessee QSO Party](#) rolls around in September if you play in a few QSO parties between now and then. Be sure you know the contest rules and exchange information. Each QSO Party and Contest has its own website, and there are several places to find the link you need. ARRL's [Contest Calendar](#) includes information on both ARRL- and non-ARRL-sponsored contests, and there are many other sites dedicated to [state QSO parties](#) or special-interest contests and events.

Don't forget that the [RACK Hamfest](#) is Saturday, June 16, in Knoxville. A RACK member has been at each of our last few meetings selling tickets. Visit the ATM before our club meeting and get a few [green stamps](#) to buy your tickets and support our sister club. There are drawings, and you could be a big winner!



*(Continued on the next page)*

Remember, in last month's *Overtones*, I said without proof that radio waves are a form of light? The equivalence of light and electromagnetic radiation was proposed by [James Clerk Maxwell](#) in 1862 and demonstrated by Heinrich Hertz in a series of [brilliant experiments](#) between 1886 and 1889. What did Hertz do? He built what we would recognize as a spark-gap transmitter and fashioned an antenna from a loop of wire whose ends were very close together. A spark was generated between the antenna terminals every time the transmitter sparked. Hertz followed with experiments showing that the electromagnetic waves could be reflected and focused using metal sheets. He was even able to show that the electromagnetic waves propagated at the speed of light.



Radio Outreach at the Children's Museum of Oak Ridge is Sunday afternoon, May 20, from 1-4 in the Discovery Room. Come see our permanent station in its new cabinet built by Butch/K8KO and show a kid what amateur radio is about. Last month's Outreach involved a Girl Scout Troop; read about that in the article by Dan/KX4CH a little further down. This month's program, by Jamie/W4ABE, will help us know what to do in an active shooter situation. Come find out for yourself, and I'll see you there.

## ORARC Supports the Amateur Radio Outreach Program at the Children's Museum of Oak Ridge Contributed by Dan Mantooth, KX4CH and Jamie Wright, W4ABE

ORARC Members Jamie Wright (WA4ABE), Paul Koretko (WA0BAG), and Dan Mantooth (KX4CH) supported the amateur radio outreach activity at CMOR on April 15, 2018. A total of 18 stopped by the Discovery Lab to visit with us. At one point, Paul was busy working the new station and Jamie patiently waiting for more young people when in walked 16 local Girl Scouts with all their adults. Jamie quietly said, "need some help, Paul". Needless to say, the room was quite full. Each received a certificate for successfully being able to send their name using Morse code. The activity also provided the opportunity to show off our new ham station described in last month's Reflector. In addition, we also had a visit from two current hams from the train room who dropped by to chat awhile. Overall a successful afternoon.

ORARC supports the Outreach program the third Sunday of each month from 13:00 to 16:00. All Club members are encouraged to participate whenever possible.

A beehive of activity! Jamie Wright (WA4ABE), Paul Koretko (WA0BAG) are surrounded by eager visitors at the ORARC Outreach at CMOR.







Jamie Wright (WA4ABE), Paul Koretko (WA0BAG), shown with their teaching tools.



Visitors to the ORARC Outreach at CMOR patiently wait for their turn. Several young visitors discuss what they have learned.

## Silent Key – John Lewis Anderson, AG4M (SK)

John Lewis Anderson/AG4M (SK) died April 28, 2017 at the age of 89. He was an active amateur radio operator and experimenter since childhood and held the call sign AG4M. He was a member of the Oak Ridge Amateur Radio Club and a charter member of the East Tennessee DX Association.

John was an engineer in the Instrumentation and Controls Division at Oak Ridge National Laboratory for 38 years, retiring in 1994. John and his wife Lucina, who died in 1983, moved to Oak Ridge in 1956. John and Lucina both grew up in nearby Norris and both graduated from Norris High School, now Norris Middle School. John was an electronics technician in the United States Navy in the latter part of WW2 and then attended the University of Tennessee, graduating in 1950 with a BS degree in Electrical Engineering. He did graduate work at University of Cincinnati, Rensselaer Polytechnic Institute and Massachusetts Institute of Technology, and received an MS degree in Electrical Engineering at UT in 1963. He was a licensed professional engineer.

He and his family were avid boaters and swimmers and spent many years enjoying these activities, mostly on Norris Lake. Both he and his wife were active with the Red Cross and were Water Safety Instructors, First Aid, and Canoeing Instructors. John and Lucina were active with Boy Scout and Girl Scout troops. John was an instructor at the Oak Ridge School of Reactor Technology (ORSORT) and a part-time instructor of engineering technology at Roane State Community College.

John was a principal designer of the control and protection systems for several research reactors, including the High Flux Isotope Reactor, still in operation. He also developed plasma position control systems for ORNL Tokamak fusion experiment facilities and held several patents. He received commendation for coordinating ORNL assistance during the early phases of the Three Mile Island accident recovery operation and later worked with the Nuclear Regulatory Commission to recommend and review changes to all nuclear power plants to reduce the probability of other similar events.

John is survived by his daughter, Joan Anderson, of Oak Ridge.

*Thanks to Jim Bogard, K4YL, for collecting this material from published sources*

## Need a new contest? How about WMPLOTA\* Submitted by Butch Aline, K8KO

So you've got over 333 on the DX honor roll, on all bands except 2200 and 600 meters - too much QRN! WAS, WAC, NPOTA? Been there, done that.

Zero sun spots...what's a paper chaser supposed to do?

Try this:

[http://wmploa.org/wiki/index.php/WMPLOTA Rules and Awards Scheme](http://wmploa.org/wiki/index.php/WMPLOTA_Rules_and_Awards_Scheme)

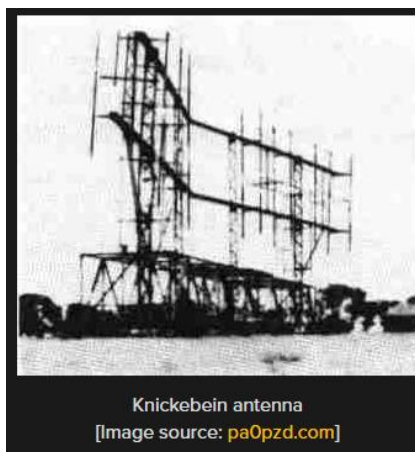
De Butch K8KO

*Editor – WMPLOTA was completed in April 2018. But read the link to prepare for next year!*

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## Beeping The Enemy Into Submission (WW II technology) Submitted by Butch Aline, K8KO

<https://hackaday.com/2018/04/17/beeping-the-enemy-into-submission/>



*Editor - This absorbing article discusses the series of antenna systems used for WW II nighttime bombings and the methods used to defeat them.*

## Upcoming Events

### ORARC Wednesday Lunch at Shoney's Oak Ridge

Every Wednesday at 11 AM at Shoney's on Illinois Avenue in Oak Ridge

For an email reminder for the lunch, write to Willard Sitton at [W4HZD@arrl.net](mailto:W4HZD@arrl.net)

### Amateur Radio Outreach at the Oak Ridge Children's Museum

Every third Sunday afternoon.

Next event is May 20, 2018

Contact: Jim Bogard KY4L, email [KY4L@ARRL.NET](mailto:KY4L@ARRL.NET)

### Field Day 2018

June 23-24, details to be announced

Contact Roy Freeman for information and to volunteer

## Hamfests - save the dates!

06/16/2018	<b>Knoxville Hamfest</b> in Knoxville, TN	<a href="http://www.w4bbb.org">http://www.w4bbb.org</a>
07/21/2018	<b>Wes Schum Memorial Vintage Radio Event</b> in Jonesborough, TN	<a href="http://www.ce-multiphase.com">http://www.ce-multiphase.com</a>
07/28/2018	WCARS Hamfest in Waynesville, NC.	<a href="http://wcars.org">http://wcars.org</a>
07/28/2018	<b>Greater Nashville &amp; Middle Tennessee HamQuest</b> In Lebanon, TN	<a href="http://midtnhamquest.com">http://midtnhamquest.com</a>
10/20/2018	<b>Tennessee State Convention (Hamfest Chattanooga 2018)</b> in East Ridge, TN	<a href="http://www.w4am.net">http://www.w4am.net</a>

## ORARC Dues – if you are not yet paid up...

Are you paid up ORARC dues for 2018? If you are, then THANK YOU! Your ORARC dues support important public service activities as well as repeater care and feeding.

If you have not yet paid up for 2018, please update your ORARC membership as follows:

Dues are \$20 and can be given to the Club Treasurer at any meeting or can be mailed to the club's post office box with an Application/Renewal Form available on [www.orarc.net](http://www.orarc.net).

\* **Walmart Parking Lot On The Air**



# Oak Ridge Amateur Radio Club, Inc.

**P.O. Box 4291**

**Oak Ridge, TN 37831-4291**

## 2018 CLUB OFFICERS

President	Jim Bogard KY4L	806-8069
Vice President	Jim Womack KC4RD	463-0963
Secretary	Roy Freeman KE4TG	482-4474
Treasurer	Dan Mantooth KX4CH	509-528-7826
Technical Director	Carl Lyster WA4ADG	588-7120
Membership Director	Jim Tonne W4ENE	425-2359
Publicity Director	Chet Morris W4GEK	
Past President	Darrell Cook WA4LNX	207-4827

## COORDINATORS

Control Operators	Carl Lyster WA4ADG	588-7120	Public Service	Gwen Cole KF4ROX	457-1806
	Roy Freeman KE4TG	482-4474	Programs	Roy Freeman KE4TG	482-4474
	Ralph Lockhart WB4CTW	945-3890	Trustee-W4SKH	Chet Morris W4GEK	
Education	OPEN		Trustee-K4PJ	Charlie Hargis K4LF	481-3573
Field Day	Roy Freeman KE4TG	482-4474	ARES Coordinator	Darrell Cook WA4LNX	207-4827
Historian	Chet Morris W4GEK		RACES Coordinator	Darrell Cook WA4LNX	207-4827
			Website Manager	Jamie Wright W4ABE	Jamie@W4ABE.net

## Visit our Web Site at

[www.orarc.net](http://www.orarc.net)

Club meetings are held at the First United Methodist Church, 1350 Oak Ridge Turnpike, Oak Ridge, TN on the second Monday of each month at 7:00 p.m. Guests, friends, family members, and prospective Radio Amateurs are welcome at all Oak Ridge Amateur Radio Club meetings.

Board meetings are at 6:30 p.m. before each monthly meeting. Members are encouraged to attend.

Annual dues are \$20. Download and print the Application/Renewal form on the Club's website, ORARC.NET. Bring the form and \$20 cash or a check made out to "Oak Ridge Amateur Radio Club, Inc." to Dan Mantooth, Treasurer, at the upcoming Club meeting. Or send the form and check to the Club at P.O. Box 4291, Oak Ridge, TN 37831-4291.

The Reflector is the monthly newsletter of the Oak Ridge Amateur Radio Club, Inc.

**Please submit Items and announcements for the Reflector on or before the first day of the month in which they are to appear. Send submissions as Word attachments or as text within an email message, with "REFLECTOR" in the subject line, to Hilary Shreter at [ke4bdw@arrl.net](mailto:ke4bdw@arrl.net).**