#### CENTRAL ILLINOIS RADIO CLUB OF BLOOMINGTON NEWSLETTER



SERVING CENTRAL ILLINOIS AMATEUR RADIO SINCE 1921

IN THIS ISSUE

## From The President

by Jim Baker WB9EDL

Dayton / Xenia has come and gone. It was a good trip for the many that went. Some of us still need to make the trip to the Ham Radio Mecca.

Elections for club officers will take place at the May meeting. We will be wanting a nomination for club secretary. Tom, N9XAQ will not continue as club secretary.

Club operating events:

June 16 the Mclean Co. Wheelers Spring metric at Comlara Park 6:30 to 2;00.

JUNE 23-24 ARRL Field Day. Held at Old Town Township Hall. I would like to set up antennas on Friday afternoon/ evening. We always seem to find some issues that extend our set-up time.

I have been having fun working some European DX on 40M ssb. It is possible even with an inverted vee and 100 w. Good thing they have good antennas.

73

Jim WB9EDL

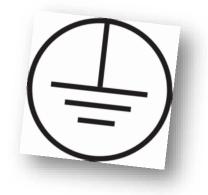
\*\*\* Due to remodeling at the Red Cross Facility that is starting in February, 2018 and lasting till September 2018, we will be holding our monthly meeting at Bloomington-Normal Area Home Builders Association

1713 Tullamore Ave. Suite B, Bloomington, IL 61704



June 2018

2018 Dayton Hamvention Photos submitted by various club members



Electrical Safety Written by Gary Huber AB9M

# Short CIRCuits

# Dayton Hamvention 2018 Photos by club members



















### The Amateur's Code

The Radio Amateur is:

CONSIDERATE....never knowingly operates in such a way as to lessen the pleasure of others.

LOYAL....offers loyalty, encouragement, and support to other amateurs, local clubs, and the American Radio Relay League, through which Amateur Radio in the United States is represented nationally and internationally.

PROGRESSIVE...with knowledge abreast of science, a well-built and efficient station and operation above reproach.

FRIENDLY...slow and patient operating when requested; friendly advice and counsel to the beginner; kindly assistance, cooperation and consideration for the interest of others. These are the hallmarks of the amateur service.

BALANCED...radio is an avocation, never interfering with duties owed to family, job, school or community.

PATRIOTIC...station and skill always ready for service to country and community.

The original Amateur's Code was written by Paul M. Segal, W9EEA, in 1928.

#### ARTICLES AND EVENTS

We need your input, please send any articles, links, interests or upcoming events you want the club to know about to Jeff Lovell KC9QQM@gmail.com

### Electrical Safety and Protective Grounding

Written by Gary Huber AB9M

1. This information is based upon my experience and training on Lightning and Protective Grounding while employed by State Farm Insurance.

2. All information is to the best of my knowledge in compliance with the National Electrical Code (NEC). See the link on the CIRC website for more information.

3. There will, no doubt be some who will argue "the code does not require....".I will argue that in most cases local contractors / electricians are finding code "exceptions" to provide a less expensive solution which may not be as safe as what I will present here.

4. The typical US residential electrical supply is based upon a step down transformer providing a three wire, 240 VAC, single phase, center tapped grounded neutral, providing 240 VAC phase to phase, and 120 VAC phase to neutral (*or ground*).

5. Protective Ground and Neutral are, in accordance with the NEC, bonded together only at the Main Distribution Panel (MDP).

6. The MDP Protective Ground is bonded with #10 AWG copper wire to the building metallic coldwater pipe. (Note: this may be problem if the coldwater pipe transitions to non-metallic before entering Earth ground.)

7. Ground Fault Interruption (GFI) protection is required in wet locations, including Bathrooms, Kitchens, Garages, outdoor locations, and **occupied basements**.

8. Arc Fault Protection (AFP) is required in bedrooms and other living areas where the phase and neutral may be shorted together by nails used for hanging pictures.

### 9. Nothing in the code prevents the use of GFI and AFP in the same circuit.

10. GFI and AFP should be combined in walk out, lower level, basement style living areas. Important things to remember, consider, and check in your home and Ham Shack

A. ..... The ground has a green screw. The hot (phase) has a brass (yellow) screw. The neutral has a silver screw. Polarized, grounding, 120-volt socket

B. The ground(ing) wire is bare but may be insulated in green. The neutral (grounded) wire is white. The hot (phase) wire is usually black, but may be red, blue, or similar dark color except green.

C. In the Ham Shack, safe NEC compliant equipment grounds are parallel to the House Protective Ground (HPG) only if the Ham Shack Equipment Grounding System is bonded to the HPG using # 10 AWG bare copper wire or equivalent.

#### D. DO NOT:

1) Bond the neutral and ground together at any point except the MDP.

2) Use an isolated equipment ground.

3) Use any Ham Shack Grounding which is not bonded to the HPG system.

4) Use a metallic water pipe ground connection if it is not bonded to the MDP AND the metal pipe does not enter the ground or is not bonded to a driven ground rod.



 $\mathsf{JEFF}-\mathsf{KC}_9\mathsf{QQM}$  RIDING THE BUS INTO THE HAMVENTION

#### FAST FACTS



Currently published DXCC entities

Number of members reading this who will tell me they saw it!

#### FOR MORE INFORMATION

Have an upcoming event that the club might be interested in attending or supporting?

CONTACT JIM BAKER WB9EDL Or bring it up at the next club meeting

#### AREA EXAM DATES

Following is the schedule for W5YI-VEC Amateur Radio exams for the year 2017. At the Community Room of the Bloomington Public Library located at the intersection of E. Olive St. and S. East ST. Entrance off of S. East St.

Setup is from Noon to 1:00 normally. Exams begin at 1:00 P.M.

Please bring two forms of identification. You must have a Social Security Number. We cannot administer a test without your SSN. You will need a copy of your Current license plus any CSCE you want to apply. 2018 dates; 5/26 1-3pm 7/11 tba 11/10 tba

Exams' in Morton are held at the Morton Public Library, 315 West Pershing at 12:00 Noon the third Saturday of even numbered months and. Sep 21 (Superfest),

### AREA NETS

Mon thru Sat 9:00 A.M. CT 14.2475 (HF) **Displaced Peorians** Tuesday 9:00 P.M. 147.255 (023 DCS) Woodford County Tuesday 7:15 P.M. 146.910 Tazwell County ESDA Net Tuesday 8:30 P.M. 28.450 CIRC Open 10 meter Net Tuesday 9:00 P.M. 146.940 (103.5PL) **CIRC** Open Net Wednesday 9:00 P.M. 147.060 Open Net Has Newsline Wednesday 9:00 P.M. 442.250 103.5 PL ARES Open Net Varies 147.100 103.5 PL Sometimes Trader's Net follows ARES Net held on 442.250 Thursday 8:00 P.M. 28.450 Vertical polarization is encouraged but not required Thursday 9:00 P.M. 146.760 (162.2 PL) Open Net with Newsline Thursday 9:00 P.M. 146.850 (103.5 PL) **Open Net Peoria** Sunday 08:15 A.M. 1.915 Open 160 meter AM net Sunday 7:00 P.M. 146.985 Clinton ARC net Sunday 8:30 P.M 147.075 156.7 PL Sunday 8:30 P.M. 146.730 123.0 PL Open Net



Some shots from the 2018 Hamvention



### Regular Calendar of Events



Daily Coffee Klatch Monday thru Friday 9:00 a.m. at Dairy Queen Veterans at Cub's XYL's Join the OM's Monday and Friday

#### Weekly 10 Meter Net Every Tuesday evening at 28.450 MHz- at 8:30 p.m.

Weekly 2 Meter Net Every Tuesday evening on the 146.940repeater at 9:00 p.m.

Weekly 6 Meter Net Every Thursday evening at 50.135 MHz at 7:00 P.M.

Weekly 160 Meter AM Net Every Sunday morning at 1.915 MHz at 8:15 A.M.

#### CIRC Meeting Fourth Wednesdays of the month at 7:00 p.m. at the Bloomington-Normal Area Home Builders Association 1713 Tullamore Ave. Suite B, Bloomington, IL 61704

CENTRAL ILLINOIS RADIO CLUB P.O. BOX 993 BLOOMINGTON, IL 61702-0993

#### WEB PAGE <u>HTTP://WWW.QSL.NET/W9AML/</u>

President: Jim Baker (WB9EDL) Vice-President: Rick Suhadolc (N9CKL) Secretary: Tom Ledgerwood (K9XAQ) Treasurer: Tom Planner (KJ9P) Newsletter Editor: Jeff Lovell (KC9QQM) The CIRC is a not-for-profit ARRL special service club whose purpose is to advance the service of Amateur Radio. Located in Central Illinois, the CIRC and its members welcome all to use the 146.94 repeater and to attend club meetings.

Submissions for the newsletter should be received by the 15th of the month and may be emailed to: Jeff Lovell e-mail kc9qqm@gmail.com

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### Short CIRCuits

P.O. Box 993 Bloomington, IL 61702