

## EZNEC Antenna Software Training Session

Presented by John Frederick, N8GOU, Assistant Director Midwest Division

Long gone are the days when amateur radio operators built the equipment in their stations, well there are few still left that do I am sure. The one area of amateur radio that remains a bastion of home brewing; is antenna construction. Roy Lewallen, W7EL, has developed and distributes EZNEC Antenna Software you can use to model antennas before you hang them in the trees.

On the 16<sup>th</sup> of December 2017 John Frederick, N8GOU, will conduct a 4-hour hands on training session on the Basics of Using EZNEC Software. The session will be broken into these topic areas; general navigation, modeling a simple dipole, modeling a loop, modifications of an existing EZNEC file, creating SWR plots, and finally creating far field plots. After attending you should be able to use the software and begin to explore the more complicated uses of it.

This session is not an antenna theory course, you will need to understand antenna basics to get the most from this session. Understanding the antenna theory presented in the General Class Amateur Radio License Study Guides would be adequate; you **do not need** a general class license to attend.

### Session Details:

- Date:** Saturday, 16 December 2017  
**Time:** 9:00 a.m. till 1:00 p.m.  
**Where:** Mercy Hospital Joplin, Conference Room #1, 4720 Indiana Avenue, Joplin, Missouri  
**Attendance:** Limited to the first 20 registrants, you must pre-register there will be no walk-ins allowed  
**Registration:** Send your name and callsign to [N8GOU@arrl.net](mailto:N8GOU@arrl.net)  
**Charge:** **None, Zero, NADA;** this event has been graciously supported by the Joplin Amateur Radio Club and Mercy Hospital Joplin. In addition, sponsored by the American Radio Relay League Midwest Division.

You will need to bring a laptop computer, please ensure it has a large enough monitor for you to use. The software has screens with some small print, and meets the requirements listed below. You will be provided a copy of EZNEC 6.0 DEMO which can be upgraded to the full version by purchasing a license from W7EL.

System Requirements, all program types: Windows XP(SP3)\*, Windows Vista(SP2)\*, Windows 7(SP1) or later Windows operating system, 32 or 64 bit. Mouse or other pointing device required.

\* Intel CPU is required on XP and Vista systems but not on Windows 7 and later.

**Instructor Bio:**

I was licensed, N8GOU, in 1985 as a technician class amateur radio operator. Subsequently upgrading to advanced class in 1987 and extra class in 1992. I currently hold a Senior Control Engineer position at TAMKO Building Products located in Joplin Missouri. Prior to my current position I held engineering level positions at the St. Bernard Soap Co., Reliable Castings Corp, TSS Technologies Incorporated, Keystone General Incorporated, and the R.L. Drake Company all located in or near Cincinnati, Ohio.

In addition to these positions I am a retired Sr. Master Sergeant from the U.S. Air Force. My military career started in the U.S. Army working on radars and electronic warfare training equipment used in the HAWK Air Defense Missile System. Later joining the U.S. Air Force Reserve, I spent 23 years as an Air Base Emergency Manager or Civil Engineering Readiness Superintendent. During my tenure in the U.S. Air Force I received instructor certification; then developed and conducted hundreds of training classes for enlisted and command staff personnel pertaining to NBC defense and emergency management activities. I served as the Air Base Emergency Manager for Seeb North AB, Oman during Operation Iraqi Freedom.

Disclaimer: Roy Lewallen, W7EL, has graciously given permission to use his name and the registered trademark EZNEC® in the description of this training. That permission in no way constitutes an endorsement of the training session. The material is presented as an information exchange between amateur radio operators.