# *Using your 160 Meter sloper antenna*

**Here is your "top-band" antenna. I think you will be pleased with it. Simply attach the coil assembly to your tower or antenna pole at the 40-50 foot level via the eyehook and a short length of rope or wire. Attach the braided cable to the tower ensuring a good electrical connection. Stretch out the wire radiator at about a 45 degree angle toward the ground and attach it to a suitable support by using a wire or rope through the insulator. "Sloping" the antenna in this manner makes the radiation pattern more non-directional than running it horizontally. Keep the end of the wire high enough off the ground so that no one will accidentally touch it. Keeping this end a bit higher off the ground also makes getting a good SWR easier.**

**The antenna radiator wire is deliberately several feet longer than will be needed. This allows you to shorten it a bit at a time to tune exactly to the spot in the band you need. You will need to trim off several feet to tune it to resonance at your fav spot in the band. Most users of this antenna "prune" it to resonance and the lowest SWR near the center of the band allowing the widest band coverage. The actual SWR you will get depends on how good your earth ground is at the base of the tower and also on the conductivity of the soil. If you have fairly conductive or moist soil you should get a good SWR easily after pruning. If you have very hard or rocky soil you might need to run a few horizontal radials from the base of your tower out in several directions to serve as an "artificial" ground. Do note that you will actually trim wire off the radiator and not just fold it back on itself. This is due to the use of insulated wire for the radiator.**

**This antenna requires the use of an RF "choke-balun" to work properly. This is easily accomplished by coiling up 10-15 turns of your feedline coax just below the antenna and holding it in place with UV resistant ties. Just wind it about a foot in diameter and hang it on the tower to support the weight. WITHOUT THIS CHOKE A GOOD SWR IS HARD TO GET AND WILL RESULT IN RF IN YOUR SHACK. (You can use a commercially built "line isolator" choke instead of the coil-choke if you wish)**

**If you have any problems getting good SWR readings be sure to check your tower or pole where the sections attach to each other making sure there is a good electrical connection. In some cases it may be necessary to bring a wire down the tower to a good ground connection. The tower or pole needs to be well grounded at the base. This antenna can be tree-mounted with a wire dropped vertically to a ground rod. If you choose to crank the power up be sure you have installed the antenna according to these instructions and have a good low swr with the choke or isolator in place. Keep the power low until you have these steps completed. A good ground is essential as well. 73's**

**BE CAREFUL INSTALLING AND USING THIS ANTENNA. CONTACT WITH ANY ELECTRICAL SOURCE CAN KILL!!!!!**