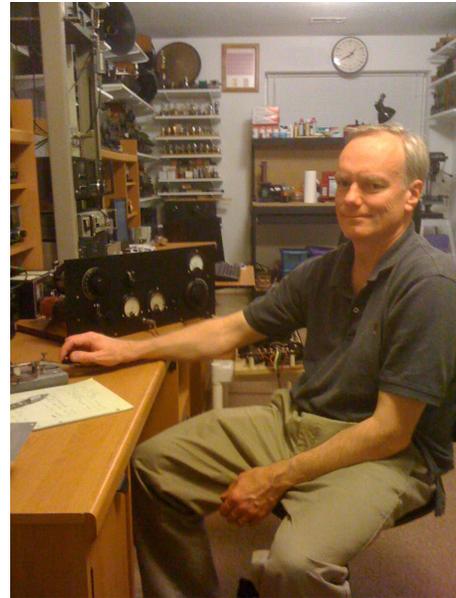


To get on the air, WD2XSH participants have revived some older gear or homebrewed transmitters. Constructing 600 meter antennas has been an enormous and expensive undertaking, requiring specifications for antennas and matching devices to be increased several orders of magnitude. One operator built an antenna loading coil a foot in diameter with No. 10 insulated wire.

Brian Justin WA1ZMS operates as WD2XSH/31 from Forest, Virginia (Grid FM07ii), 10 miles west of Lynchburg, running a homebrew Master Oscillator Power Amplifier, or “MOPA” when making QSOs. A solid state exciter and amplifier are used for Brian’s CW beacon, which transmits on 508.7 KHz 24/7.



Brian Justin WA1ZMS/4 hand keying the MOPA ▶



◀ **Behind the MOPA panel. Ladder line feeds a 160 meter dipole as the hat of Brian’s Marconi T transmitting antenna.**

After improved grounding, Brian reports that the antenna feed resistance is now 19 Ohms. “About 15 of that is still due to ground loss,” he added.

“Running the tube MOPA rig is fun for QSOs,” Brian said. “But such early

designed tubes have a short life span and it was getting too expensive to keep burning through a UV-202 every 30 days or so with 24 hour operation.” Brian enjoys the white-hot tungsten filament glow of a real 1921 tube when running the MOPA!

Additional photos, including photographs of the MOPA power supply, as well as more information about Brian’s 600 meter station are posted on the web at <http://w4dex.com/500khz/wd2xsh31.htm>.

Find out more about the experiment at www.500kc.com. If you hear Brian and other stations on 600 meters, contribute to their research by submitting a reception report at w5jgv.com/500kcreportform.htm.



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