

OFARC

20240824

0906 Jeremy started the meeting.

Introductions were made.

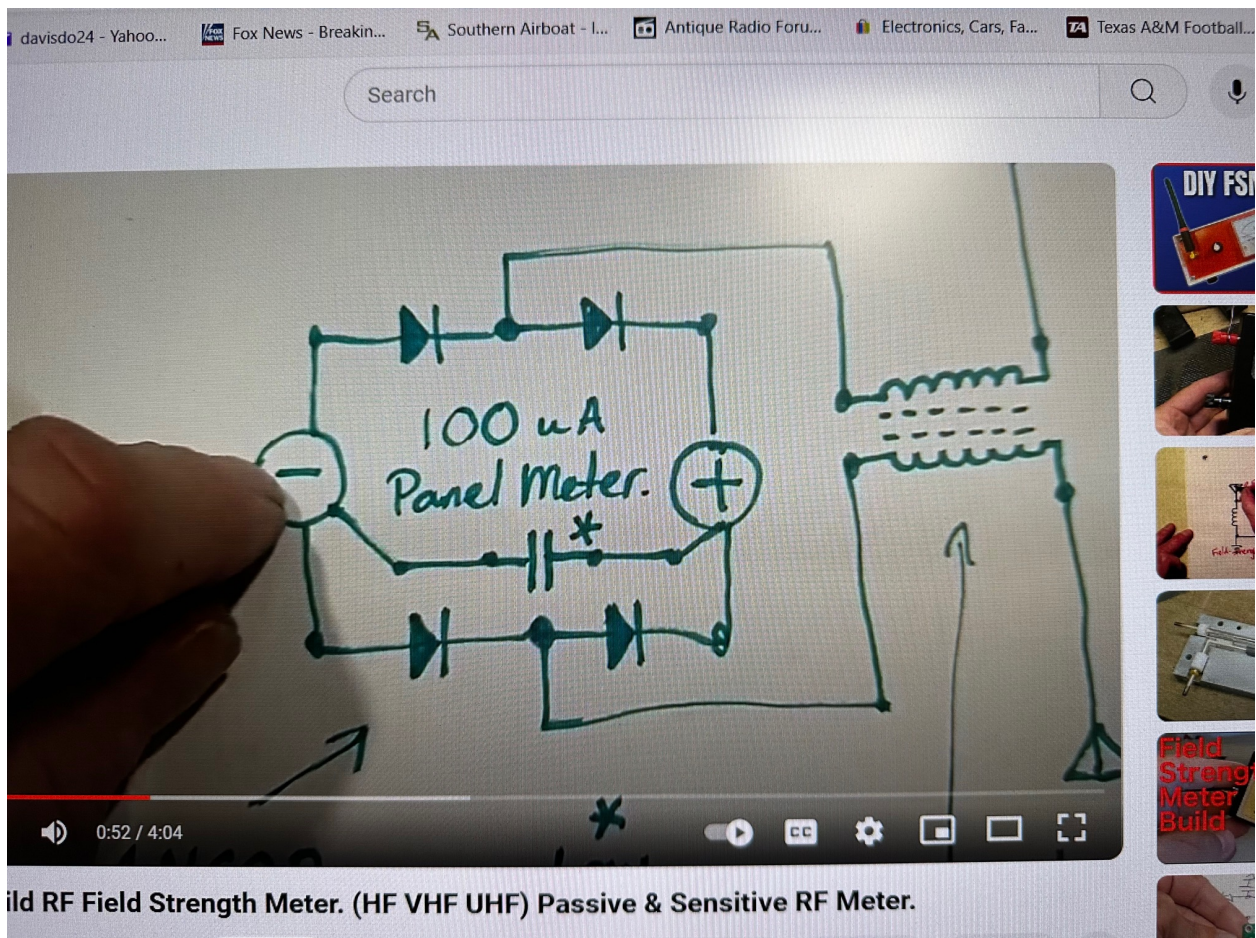
There was short discussion regarding RF meter and antennas.

A demonstration of how to set up a hand held radio was done for some of the new members.

An FCC ID number was questioned by one of the new members and a veteran member helped him with the question.

Don Davis showed his RF Meter that he built from parts at ACE

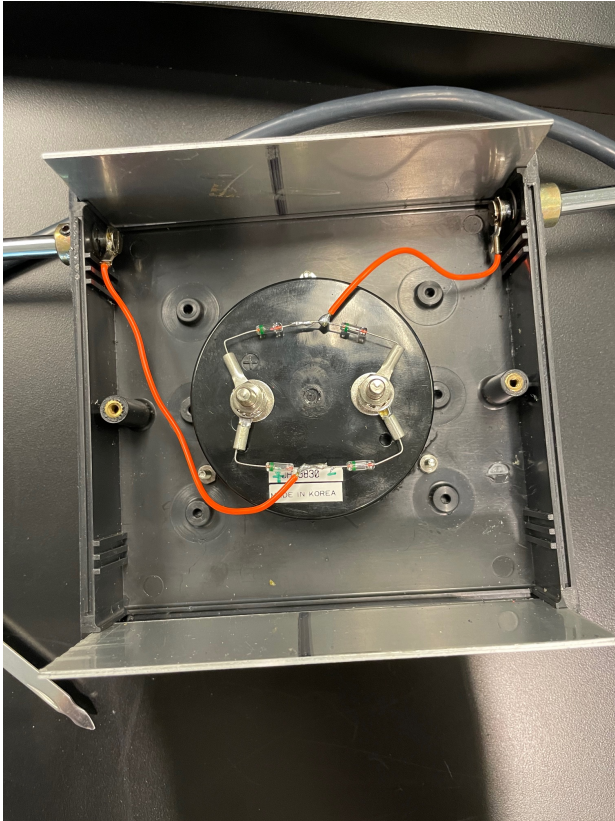
1N34A diodes were used. 1N60P diodes were recommended if you can find them. No Inductor or capacitor was used in Don's implementation. No batteries required!!

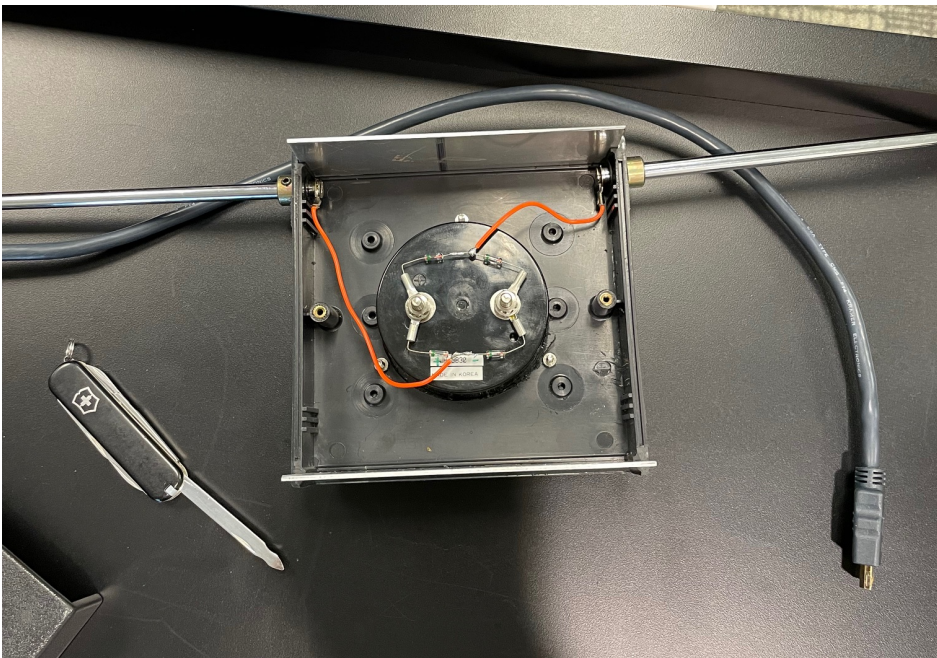


This is essentially a bridge rectifier using germanium diodes that have a very low (~0.2v) forward conductive voltage so only 200mv of signal strength is needed to detect a signal. Without any capacitor or inductor, the frequency band is "tuned" by the length of the dipole elements and will tend to be very broadband.

The bridge rectifier works because the dipole receiving elements are seeing a signal that is balanced - the voltage on one leg is going positive while the other leg is going negative. The 100ua meter works surprisingly well and would deflect almost full scale when transmitting from a 5W HT 10 feet away.

Here are some other pictures of Don's implementation:





Barry showed off his Anderson Power Pole DC Power Strip that takes in power on one pair and distributes power to 5 other power pole outlets. All ports are fused using standard automobile 12V fuses. The kit is available from Digikey for \$50, takes about 2 hours to solder and assemble.

<https://www.digikey.com/en/products/detail/ham-radio-workbench-podcast/HRWB101/15822288>

<https://www.hamradioworkbench.com/dc-power-strip.html>



10:30 End of Meeting