Wire Waves I - a teaching model (and the necessary jig). You need two wire waves.

Materials
3/8" plywood, 3/4" plywood, 1 3/4" hole saw and drill press, Elmer's glue,
for jig: 16 #18 x 1" wire brads, aluminum ground wire (RadioShack #15-035) -
40 3/4" straight

Plan for jig:

1" sq. 1/8" masonite

3/8" plywood
3/4" plywood base

3 1/2" = \frac{2}{4}

* Start bending wire from right end after C-clamping base to table top.

Uses: (a) the 3-D "picture" of an electromagnetic wave (E & B)
(b) transverse waves, planes, and polarization
(c) the polaroid filter(s)
(d) polarization by reflection (and sunglasses)
(e) laser light - coherent and collimated
(f) interference\textsuperscript{1} - constructive and destructive (phasing)
(g) double slit diffraction and interference (the pattern)
(h) eye of the needle and Poisson's spot

Additional materials: wire cutters, 6 ft. rule, hammer, meter stick (English scale),
pencil, kleenex, sandpaper, 2 1" x 1" pieces of 1/8" masonite
for corners to be clamped, 2 C-clamps (3"?)