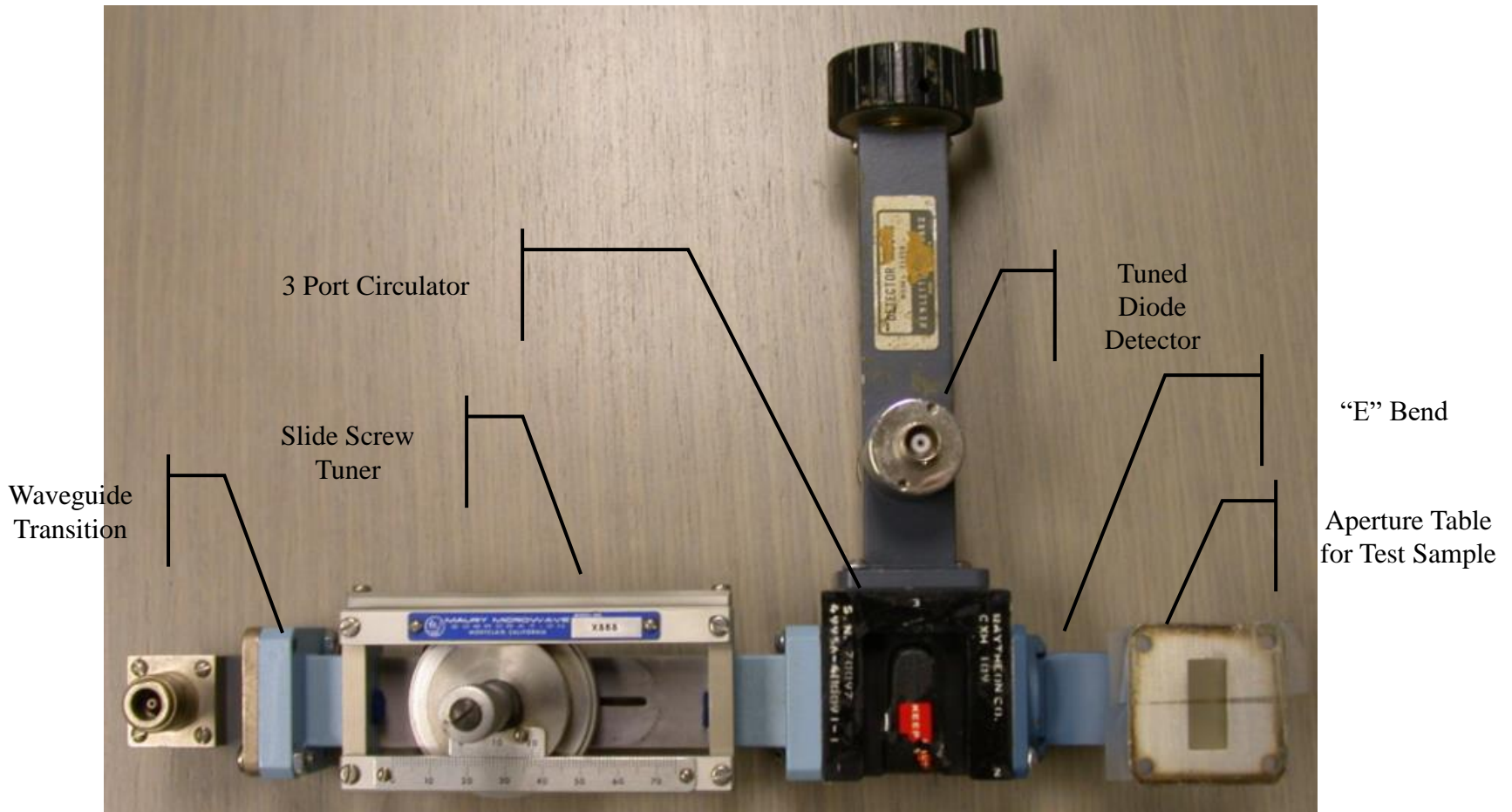


Microwave NDE Test Fixture Examples

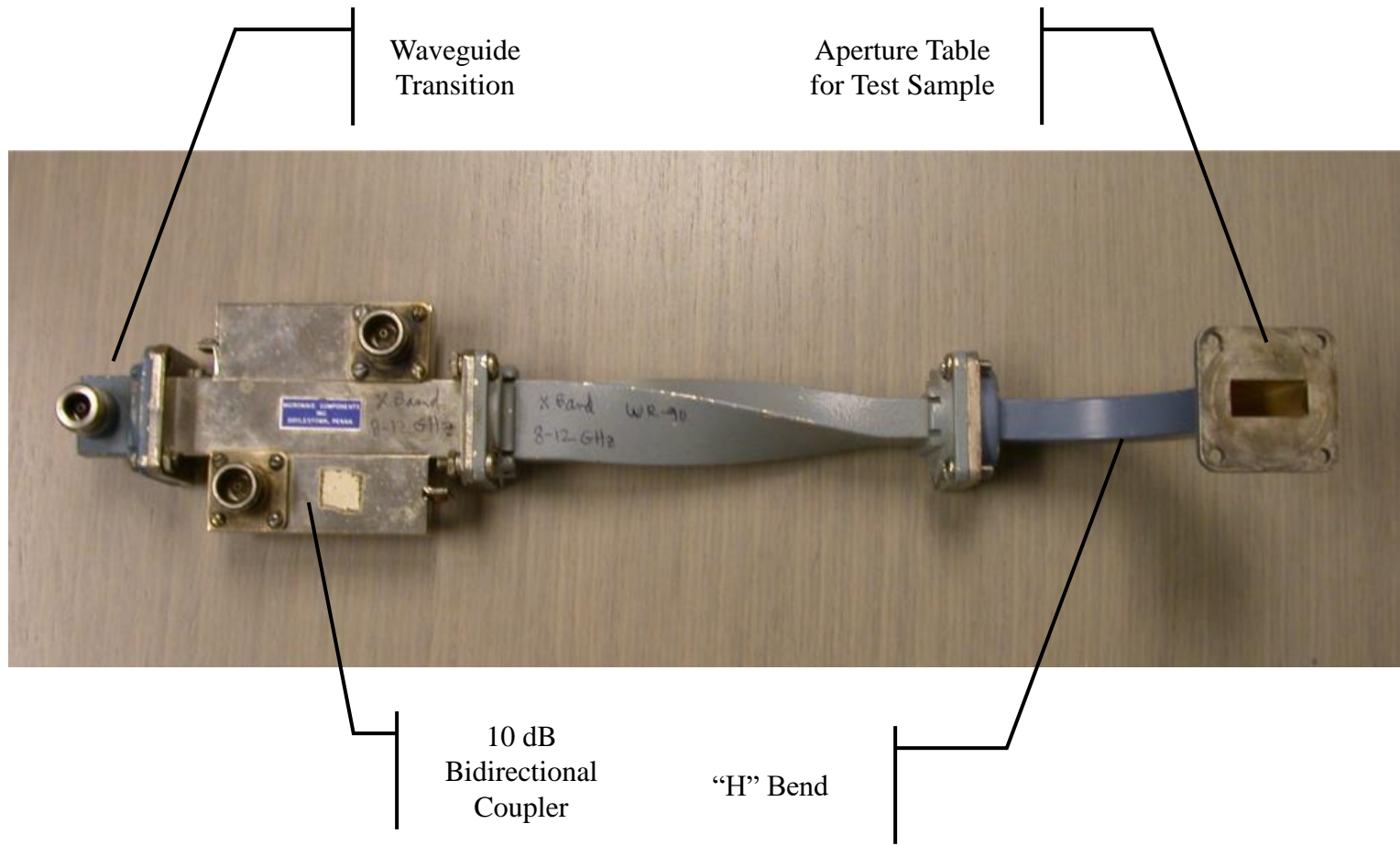
Craig E. Nelson – Consultant Engineer

When I got interested in microwave non-destructive and more-or-less non-contacting testing of porous silicon, I began to make up a variety of suitable test fixtures.

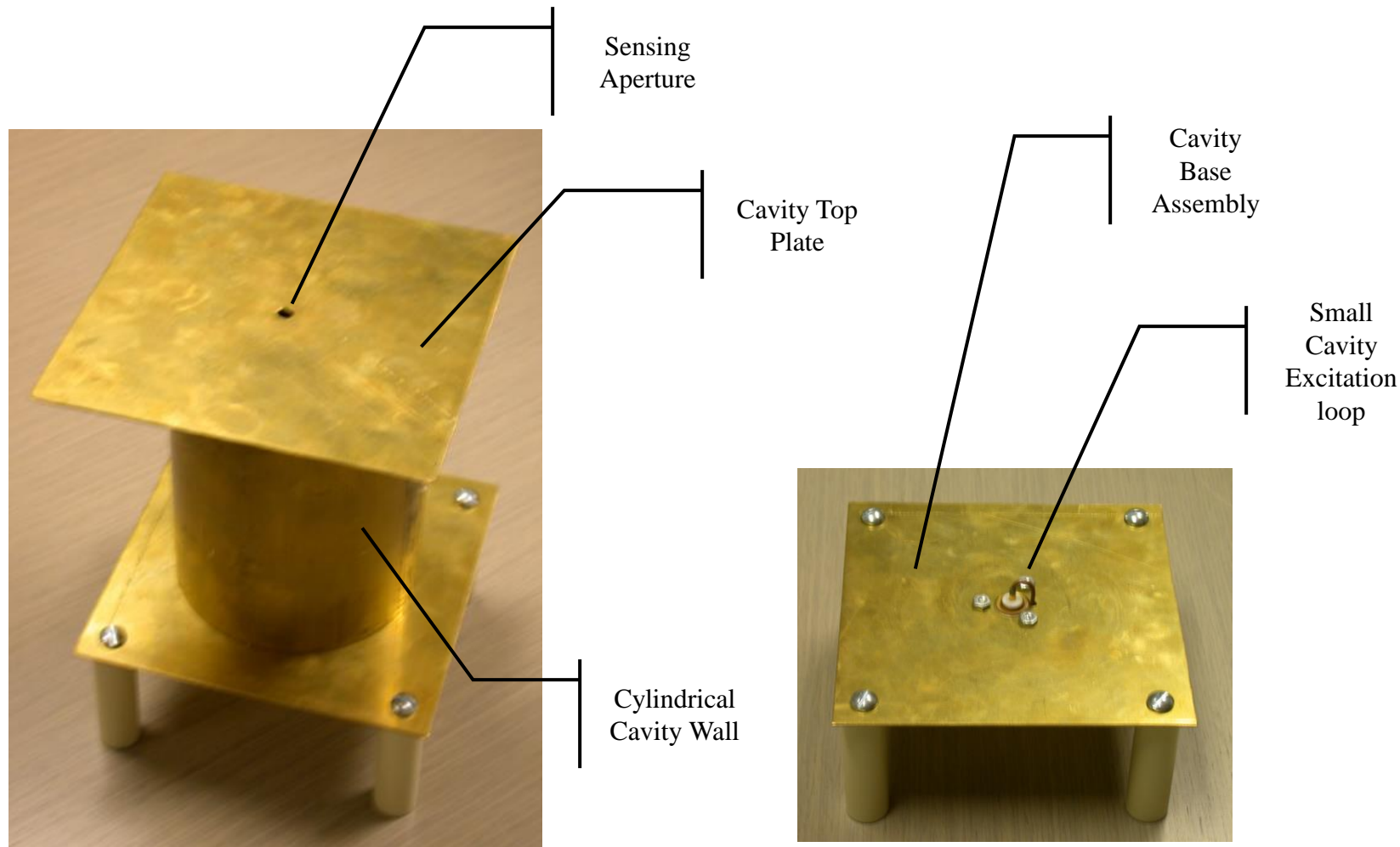
These devices were assembled from bits and pieces of microwave hardware that were obtained piecemeal over time. Despite the home-brew nature of these devices, they worked fairly well.



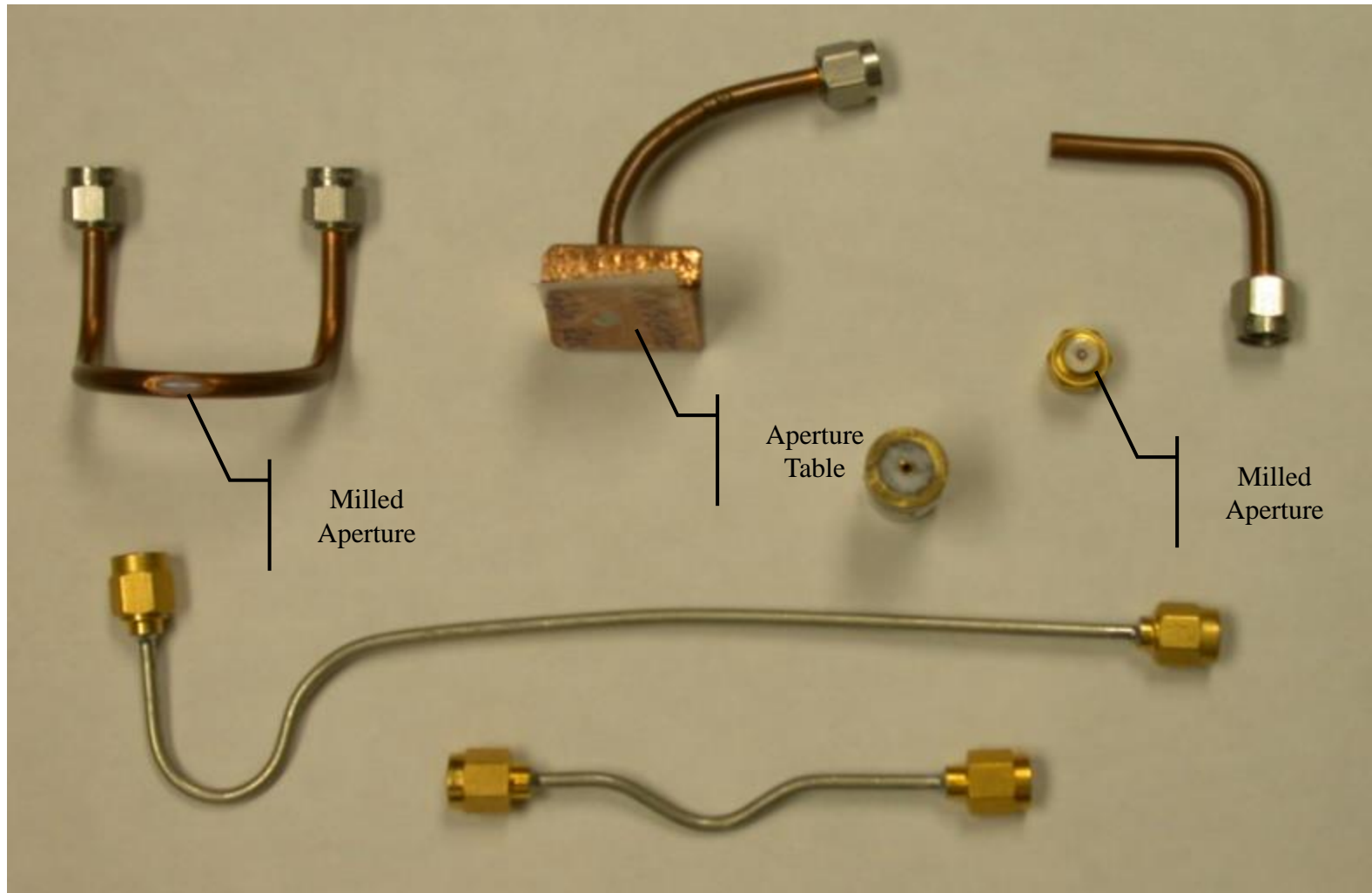
X Band (8-12 GHz) Test Fixture for Planar DUT Samples



X Band (8-12 GHz) Test Fixture for Planar DUT Samples



Demountable 1 GHz Cavity Resonator with Sub-Wavelength Sensing Aperture



Collection of Broadband, Small Aperture Coaxial "Hard-line" Microwave Sensors

Summary and Conclusions

An interesting variety of practical microwave NDE Microwave Test Fixtures have been presented