



DEPARTMENT OF PHYSICS AND PHYSICAL OCEANOGRAPHY
PHYSICS 495 RESEARCH PROJECT

**“An Electromagnetic Threat to our Modern World
or:
*How I Learned to Stop Worrying and Love the Stone
Age*”**

Graham Lucas Medlin

Physics, University of North Carolina Wilmington

Abstract

Our modern world is heavily dependent on information processing circuitry and computers. As the relative scale of these circuits drops, they become far more susceptible to transient voltages, and thus may be vulnerable to high frequency radiation. Several devices exist that are capable of producing potentially damaging microwave pulses. Because these are within our current technological level and could be assembled by a malicious entity, steps should be taken to harden against such an eventuality.

**Monday, April 27, 2009
12:00 PM
DeLoach Hall, Room 212**

