

# ScienceDaily

Science Daily, March 28, 2005

## UCLA Researchers First to Capture Elusive Lightning-Quick Waveforms

*“Researchers at UCLA have for the first time been able to capture and digitize electrical signals at the rate of 1 trillion times per second, a discovery that eventually may help scientists develop defenses against high-powered microwave weapons attacks and allow physicists to peer into the fundamental building blocks of nature.”*

*“The one-tera-sample-per-second single-shot digitizer captures lightning-quick waveforms 50 times faster than the best commercially available digitizer. Using light to slow down the electrical waveforms, these ultra-fast waveforms can be digitized at pico-second intervals or one-millionth of one-millionth of a second.”*