Exciting — in Civil Engineering

How to get more bang for your buck!

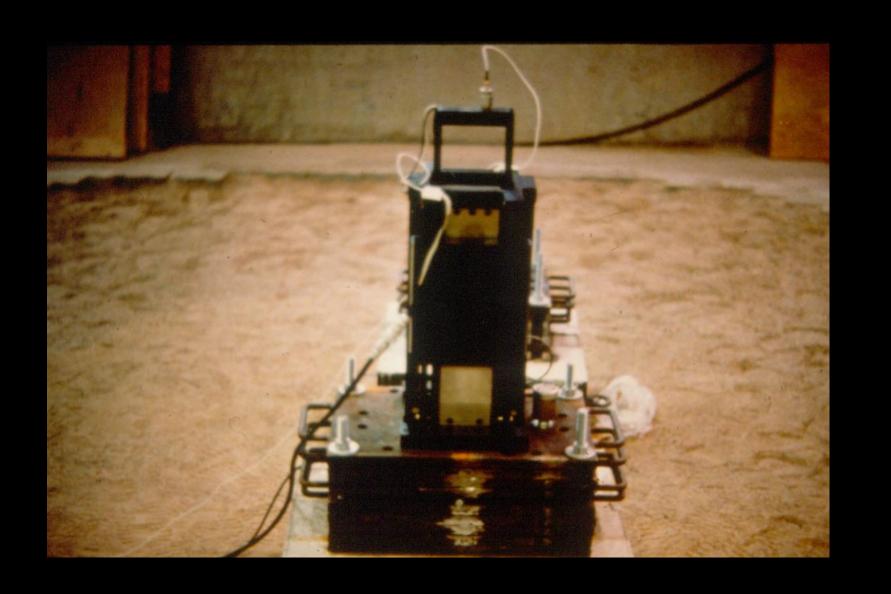
August 3, 2017
RICHARD D. WOODS
University of Michigan















LAZAN OSCILLATOR

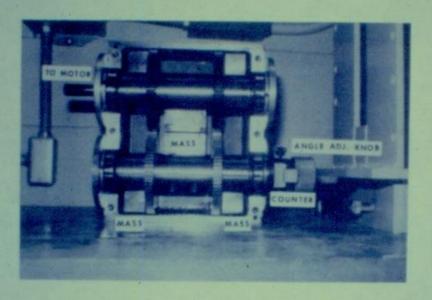
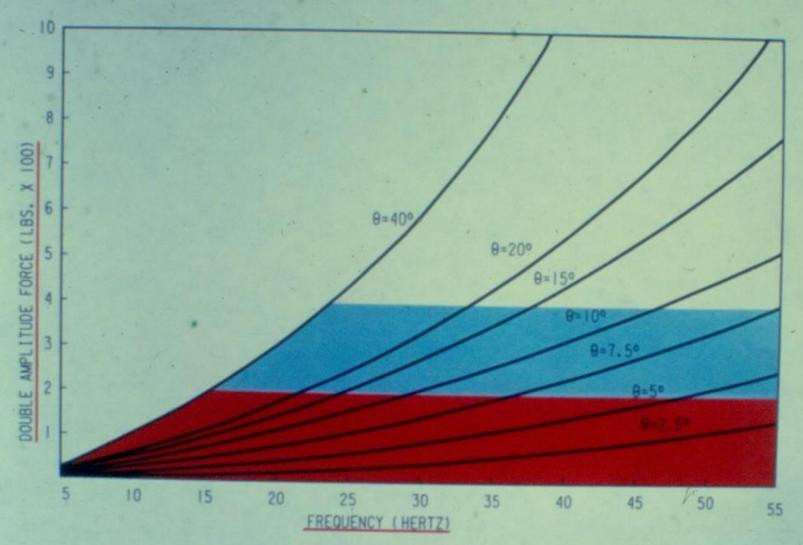


Figure 3.3 Interior of the Lazan oscillator showing rotating eccentric masses

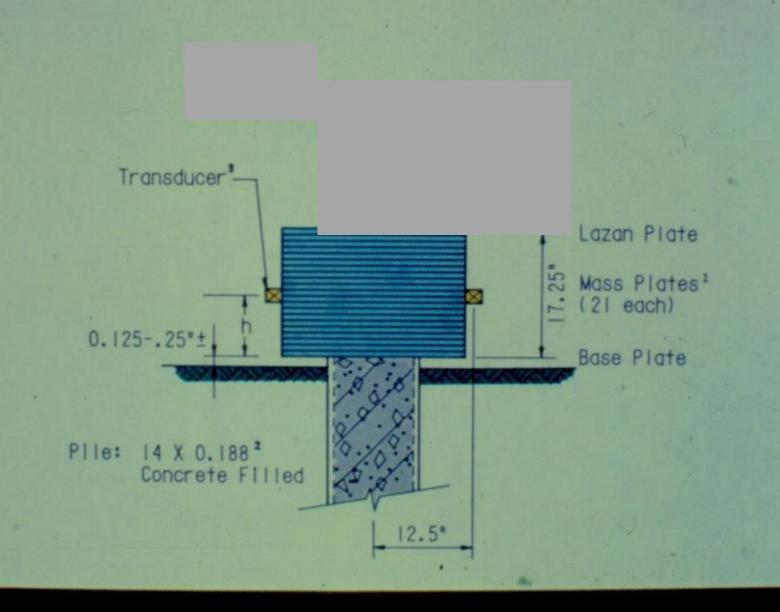


Lazan Oscillator Force Level Versus Frequency

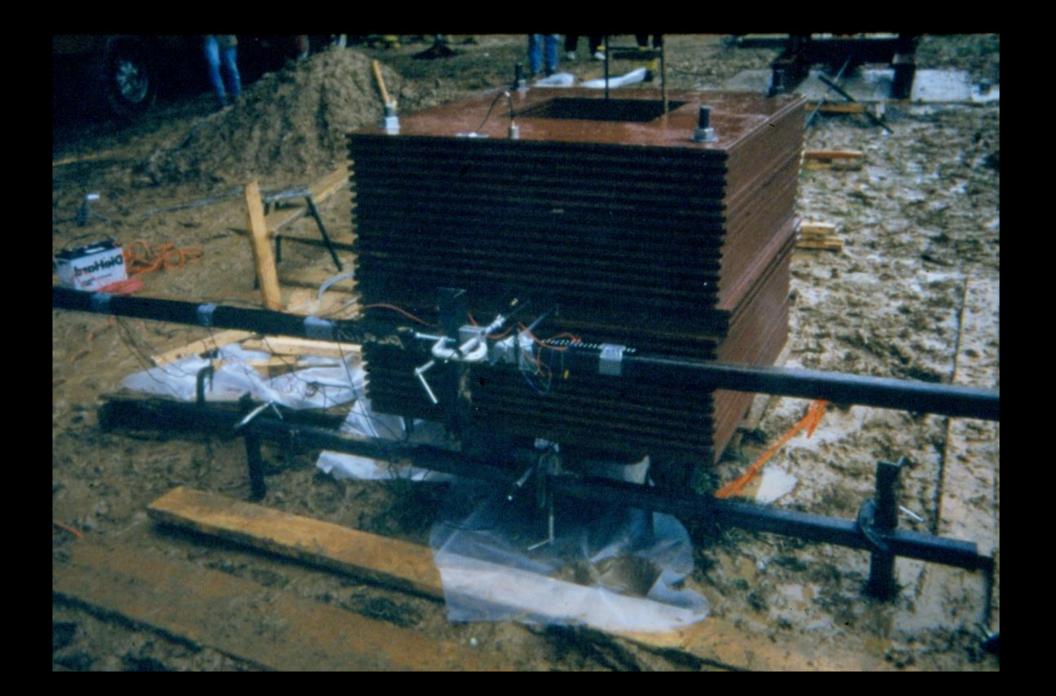






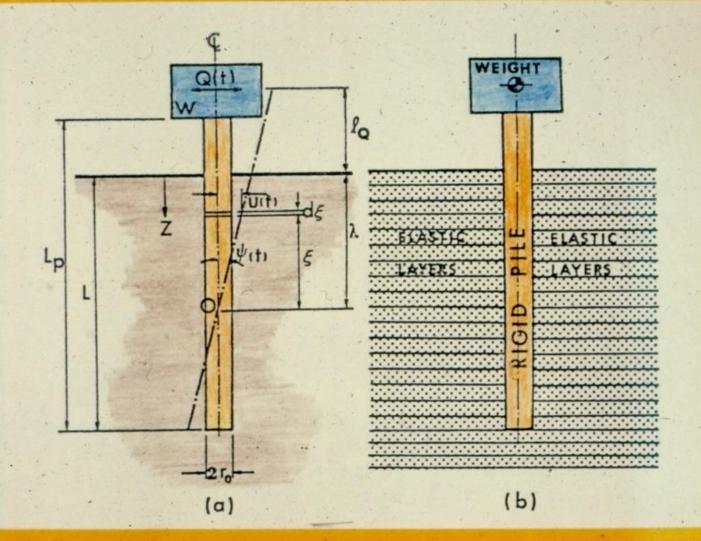








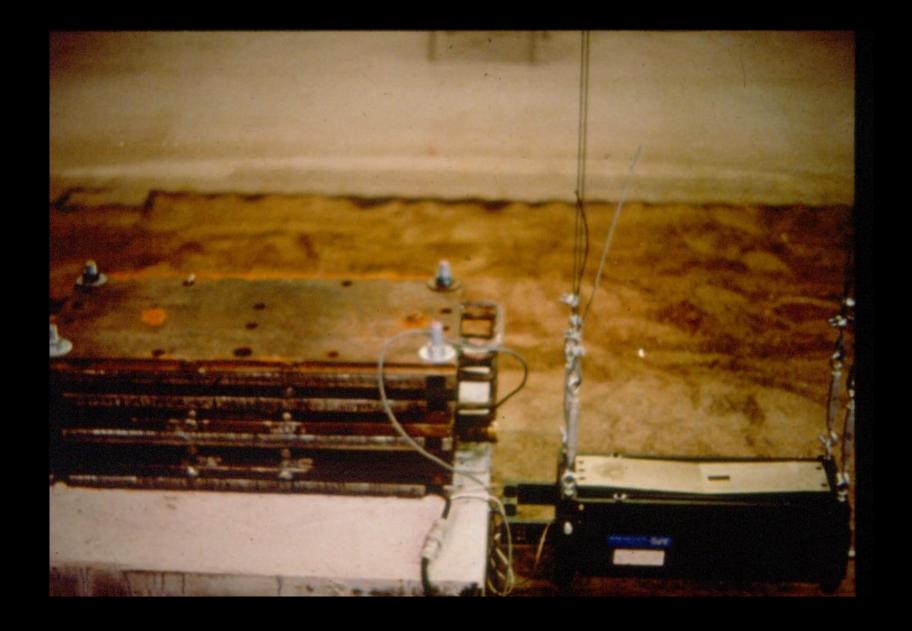










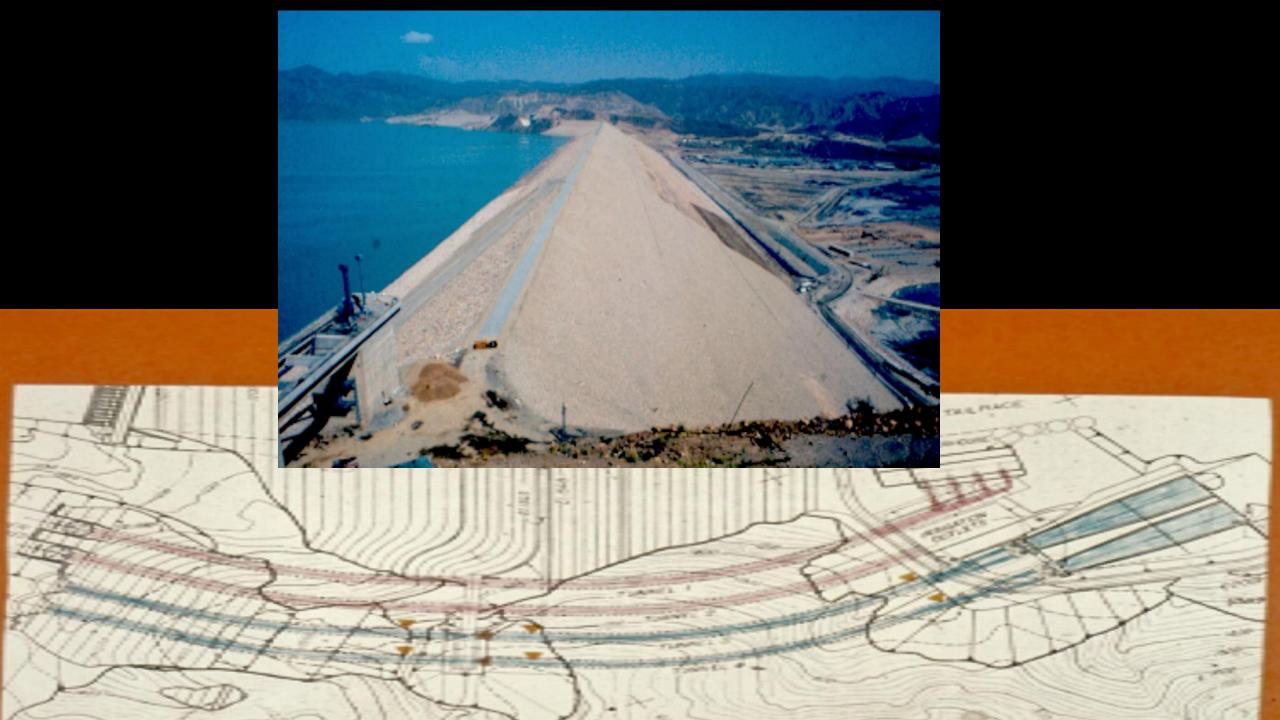




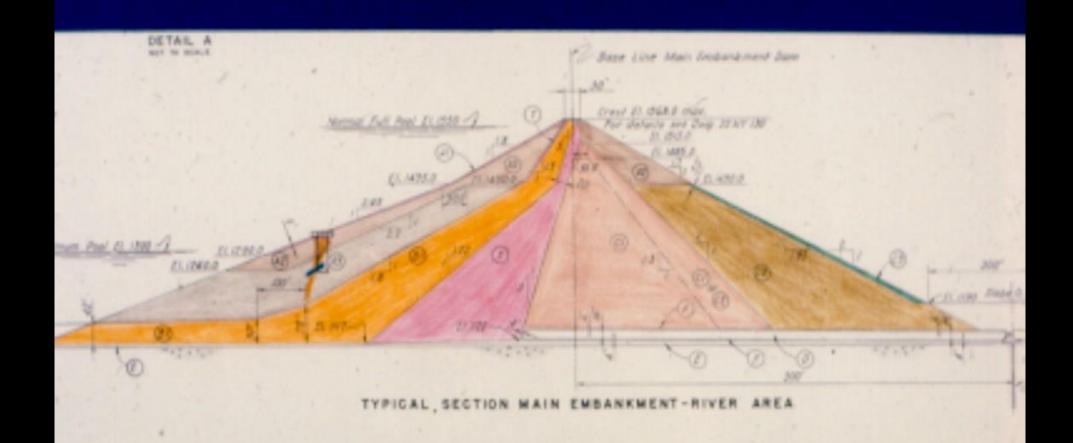


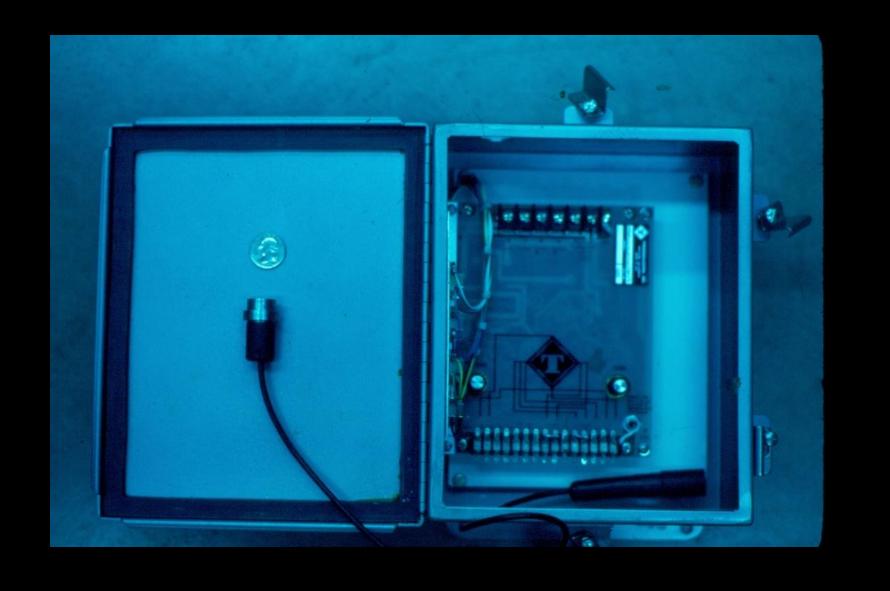
"BIG" STEADY-STATE

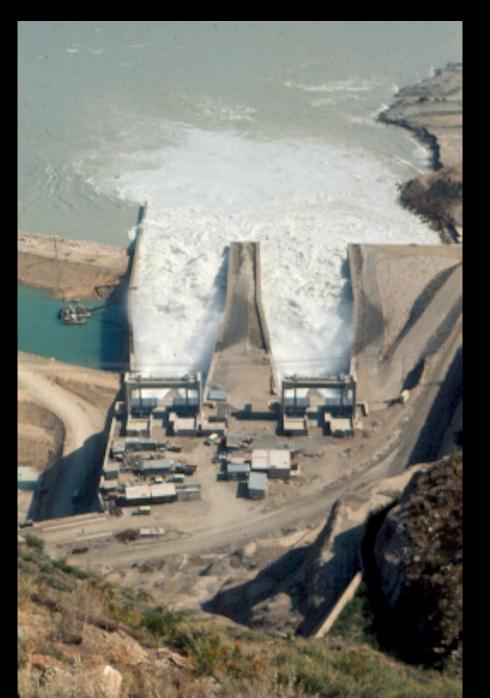






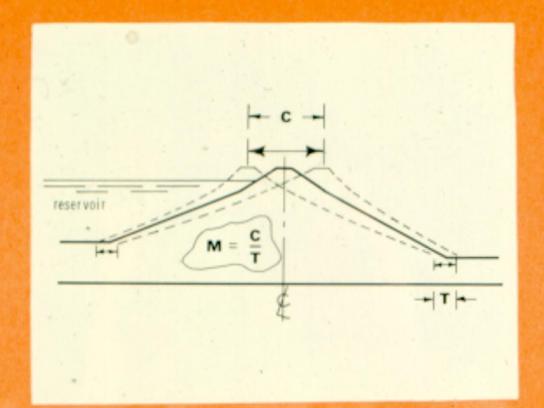


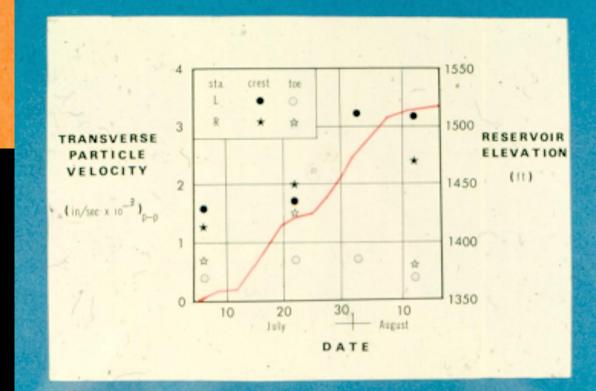














"UNINTENDED" STEADY-STATE







IMPULSE

TRIED-N-TRUE VOU'LL GET A BANG

BLASTING GUN POWDER
POWDERS - SALTPETER







THE END