Title: Targeted Optical SETI at Harvard/Smithsonian and Princeton Authors: Paul Horowitz, Andrew Howard, Charles Coldwell, Jonathan Wolff, David Latham, Robert Stefanik, and Joe Zajac.

Abstract: We review results from 4.5 years of data collection with our targeted optical SETI---10,000 observations of 4,000 stars totaling 1500 hours of observation time. The primary experiment piggybacks on the 1.5 meter Wyeth telescope at Oak Ridge Observatory. The incoming beam is split onto a pair of matched hybrid avalalche photodiodes where coincident pulses trigger sub-nanoseond pulse profile measurements, and time tagging to 100 ns. A twin to the Harvard experiment has run on the 0.9 meter telescope at Princeton for the past 2 years, simultaneously observing the Harvard target stars. We review these observations and discuss how geographically separated observatories, coupled with precise time resolution, eliminate false-positive events.