Title: Status of Laser Timing at Stafford, Virginia

Abstract: NRL is developing a high-precision, high-accuracy 2kHz SLR system with controlled laser firing for participation in the European Laser Timing (ELT) experiment. We leverage several commercial components, including a passively-stabilized short-pulsed laser capable of transmitting at 532nm or 1064nm; optical trigger devices; C-SPAD; and Pico Event Timers, all of which are disciplined by a new low phase-noise H-maser frequency reference. This presentation will consist of a brief overview of the system under development, preliminary ranging performance results, and an outline of what we expect to complete in preparation for the launch of ACES/ELT.

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