Testing Scintillators for Homeland Security$^1$ JAMES BOURBEAU$^2$, University of Texas, Arlington, ANDREW BRANDT$^3$, RASOOL KENARANGUI$^4$, ALEX WEISS$^5$, WEI CHEN$^6$, UTA — Scintillating nanoparticles have a bright future in radiation detection, especially in the area of detecting nuclear devices. As part of a UTA nanoparticle scintillator development team funded by the Department of Homeland Security, I have been developing a scintillator test stand using various radioactive sources and a Hamamatsu S3590 photodiode. I will present initial test results.

$^1$Funded by NSF/Department of Homeland Security ARI program.
$^2$graduate student
$^3$supervising professor/co-PI
$^4$supervising professor/co-PI
$^5$co-PI
$^6$PI