Abstract Submitted
for the DFD08 Meeting of
The American Physical Society

**Richtmyer-Meshkov Instabilities with Shocks, Reshocks, and Rarefactions**[1] KARNIG MIKAELIAN, Lawrence Livermore National Laboratory — We point out a variety of experiments that can be carried out at a National Shock Tube Facility to study Richtmyer-Meshkov instabilities generated by reshocks and rarefactions. The rarefactions may be isolated, preceded by a shock, or followed by a shock. Numerical simulations with CALE will be presented and compared with a generalization of the nonlinear Layzer model that includes time-dependent densities.

[1]Work performed under the auspices of the U.S. Department of Energy by Lawrence Livermore National Laboratory under Contract DE-AC52-07NA27344.

Karnig Mikaelian
Lawrence Livermore National Laboratory

Date submitted: 25 Jul 2008 Electronic form version 1.4