Section 3
NATIONAL LASER USERS FACILITY NEWS

During the fourth quarter of FY90 A. Honig (Syracuse University) and H. Griem (University of Maryland) used the OMEGA laser facility for NLUF experiments.

A. Honig and his group are testing the cold-entry target-handling system Honig has been developing for his spin-polarized D₂ experiments. This system should prove to be useful for high initial density gas-filled plastic-shell targets as well as cryogenic-fuel targets. Initial problems have been solved and a target was centered in the OMEGA target chamber during the group’s last visit to LLE.

J. Moreno from H. Griem’s group used a McPigs spectrograph to measure the time dependence of XUV emission from multilayer targets. The targets were fabricated at LLE for these experiments and included both solid glass spheres and glass shells with layers of plastic and metals. The spectral signature of the metal layers was measured as a function of the plastic-layer thickness.

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