

1983



McCrory Appointed LLE Director



◀ Robert L. McCrory,
LLE director

After a nationwide search, Robert L. McCrory, head of LLE's Theoretical Division, was named director of the Laboratory for Laser Energetics on 1 January 1983. John Soures was appointed deputy director.

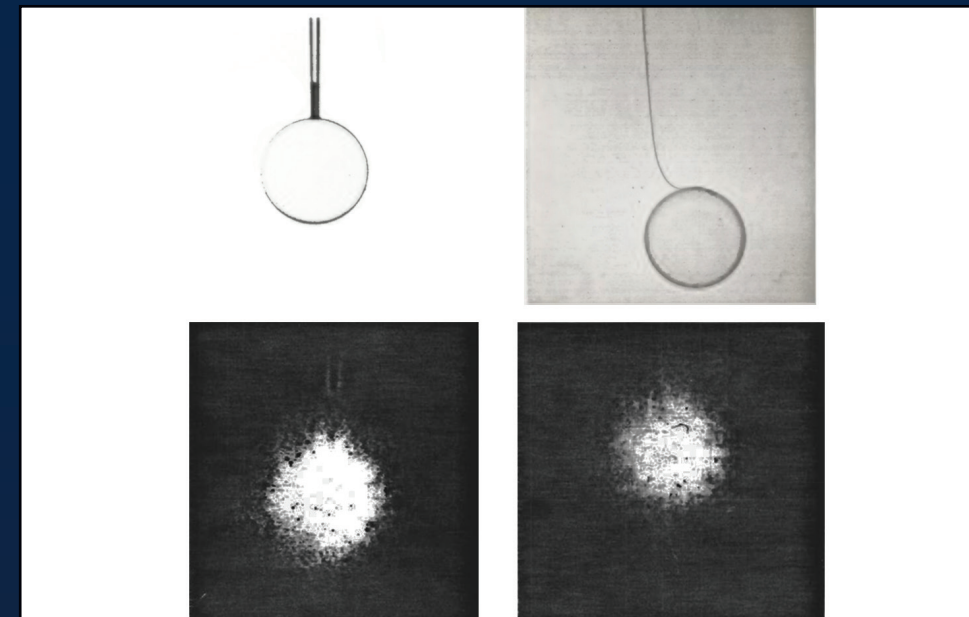
First Six Beams Converted



The OMEGA Laser is shown photographed in its own harmonic light. This picture was taken during system tests after the first six of the 24 infrared (1054-nm) beams were converted to 351-nm operation

The first six beams of OMEGA were converted and started operating in the ultraviolet. LLE also operated the OMEGA and Glass Development Laser (GDL) for LLE experiments and those carried out by National Laser Users Facility (NLUF) users.

Spider-Silk Target Mount



Improvements in implosion symmetry
from the use of spider silk

The development of spider-silk target mounting by Steve Noyes of LLE was published for the first time in an article in the Journal of Vacuum Science and Technology.

B. A. Brinker, J. M. Cavese, J. R. Miller, S. G. Noyes, S. Sheble, and L. T. Whitaker, "Inertial Fusion Target Mounting Methods: New Fabrication Procedures Reduce the Mounting Support Perturbation," *J. Vac. Sci. Technol. A* 1 (2), 941-944 (1983).

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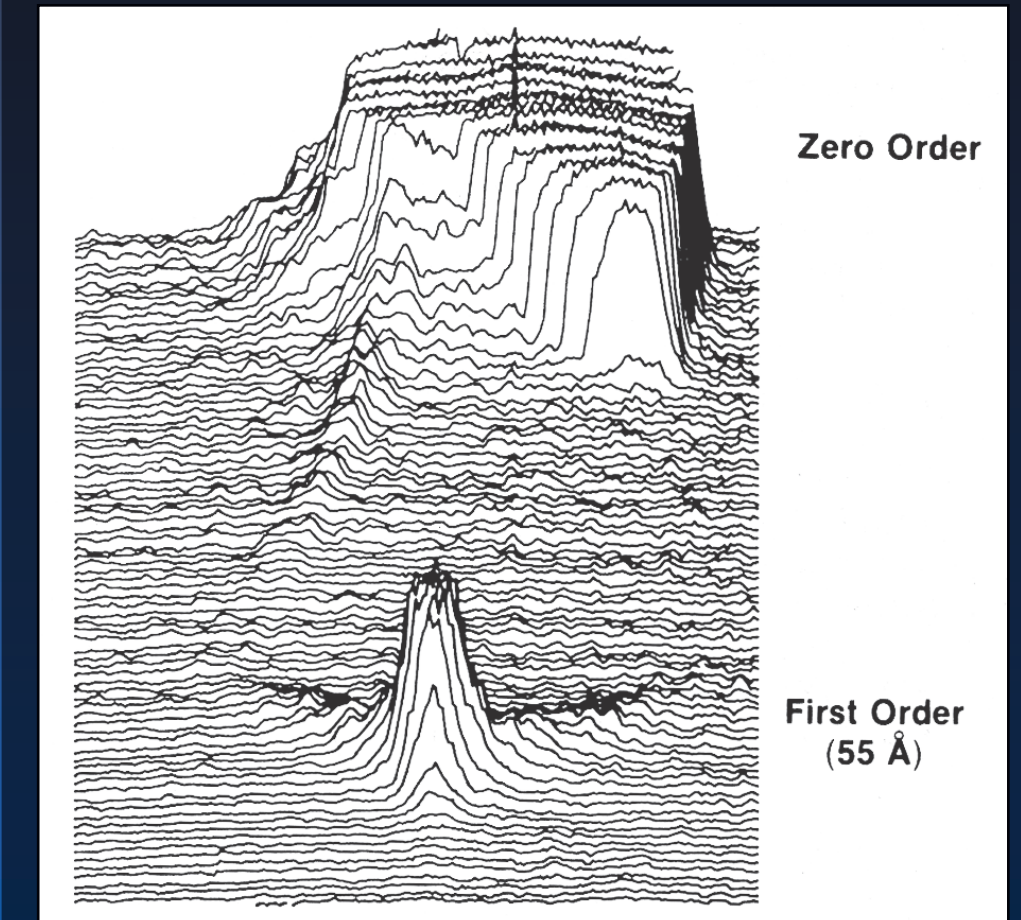
LLE Celebrates 10,000th Target Shot



Robert Hutchison celebrates the 10,000th target shot

Four years into its productive life, OMEGA reached a milestone with the firing of its 10,000th shot. The long productive lives of the LLE laser systems are ample testimony to the excellence of the LLE engineering staff augmented with strength in depth of the optics industry in the Rochester area.

National Laser Users Facility Program Publication



Dipalmitoyl lecithin x-ray diffraction

A paper entitled "Experimental Facility for Nanosecond Time-Resolved Low Angle X-Ray Diffraction Experiments Using a Laser-Produced Plasma Source" by J. M. Forsyth and R. D. Frankel appeared in *Review of Scientific Instruments*. This project was one of the first to be carried out under the NLUF program.

J. M. Forsyth and R. D. Frankel, "Experimental Facility for Nanosecond Time-Resolved, Low Angle X-Ray Diffraction Experiments Using a Laser-Produced Plasma Source," *Rev. Sci. Instrum.* 55 (8), 1235-1242 (1984).

