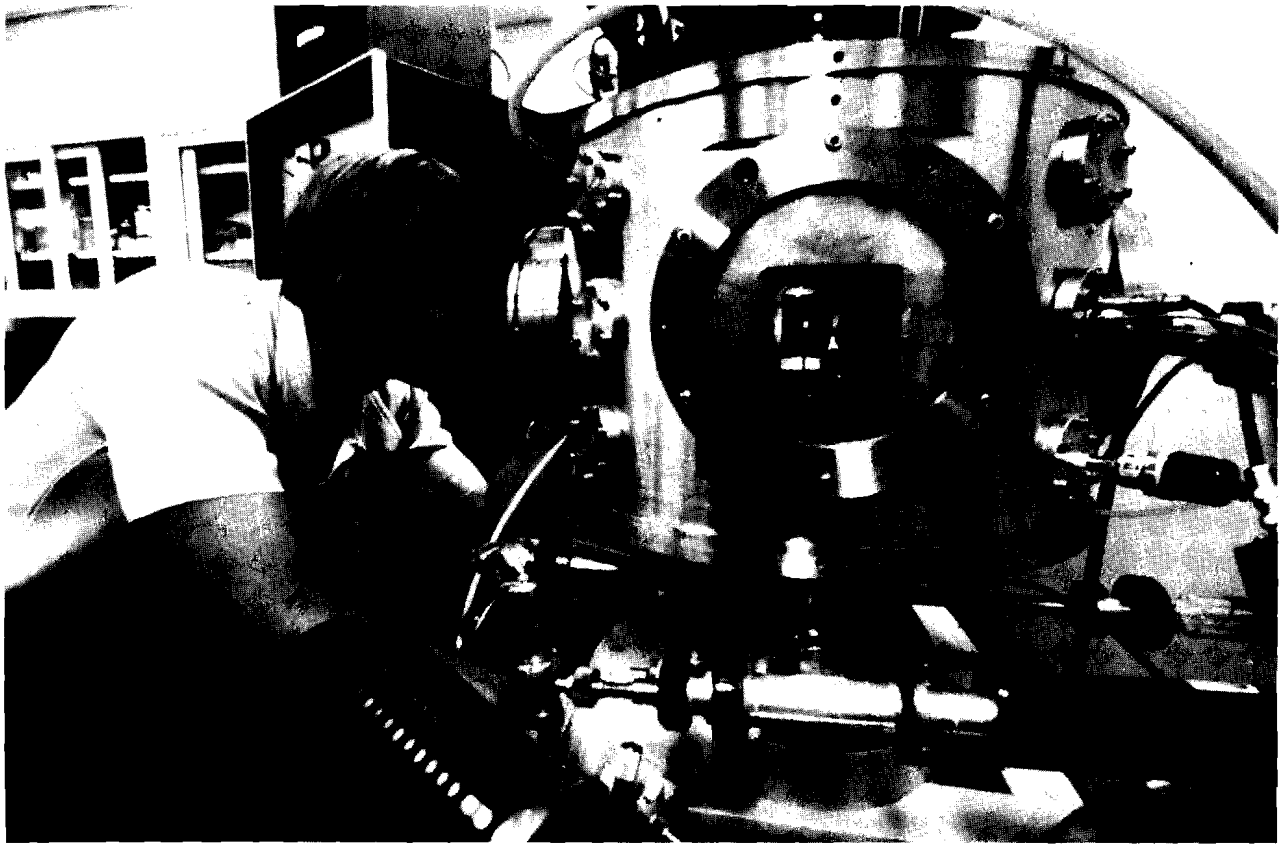
IN BRIEF

In this quarter there have been several exciting developments at LLE:

- The first implosion experiments on the OMEGA facility yielded in excess of 10^{10} neutrons per shot using "exploding pusher" DT-filled microballoons.
- Detailed measurements of backscattered spectra have been made on the tripled frequency GDL glass laser system observing both Brillouin and Raman scattered light. Thresholds were observed as was saturation at rather low levels.
- Two NLUF users are conducting experiments at LLE, a third will begin next quarter. Six new proposals have been approved by the NLUF Steering Committee for future experiments.
- Our facility for damage testing optical coatings is now on-line. A variety of AR and HR coatings have been tested at 0.351 μm with measured damage thresholds between 0.5 and 2.5 J/cm^2.

- The Research Advisory Board met at LLE on May 6, 1981 to review the Laboratory's program. Their preliminary statement strongly endorsed our plans to convert the OMEGA laser system to the UV (0.351 μm).

CONTENTS



Jerry Drumheller operates the target fabrication group's ion beam sputtering system. This is the first use of this device for depositing high-Z fusion target pusher layers. The results of a series of experiments using this method are reported in this issue.