

CONTENTS

	<i>Page</i>
IN BRIEF	iii
CONTENTS	v
Section 1 LASER SYSTEM REPORT	1
1.A GDL Facility Report	1
1.B OMEGA Facility Report	1
Section 2 PROGRESS IN LASER FUSION	3
2.A Convective-Stimulated Raman-Scattering Instability in UV-Laser Plasmas	3
2.B Fabrication of Large-Aspect-Ratio, Plastic-Coated, Metal-Shell Targets	8
2.C Laser Fusion Target Production: Developments in Drill, Fill, and Plug	12
Section 3 DEVELOPMENTS IN PICOSECOND RESEARCH	16
3.A Applications of the Jitter-Free Signal- Averaging Streak Camera	16
3.B Subpicosecond Electrical Sampling	22
3.C High-Repetition-Rate Amplification of Subpicosecond Pulses	29
Section 4 NATIONAL LASER USERS FACILITY NEWS	34
PUBLICATIONS AND CONFERENCE PRESENTATIONS	42



Professor Hans Griem (University of Maryland) is discussing recent experimental results with Tom Bristow (left), the NLUF manager. Professor Griem carried out experiments on the GDL facility which are reported in this issue.