

C O N T E N T S

Hermetic and Vacuum Seals for Difficult Environments	9
Ralph J. Bondley	
Development of Corning Safety Windshield	16
John S. Howitt	
Solid State Devices for the Glassblower	22
Stephen D. Poulsen	
Progressive Adaptation in Physical Chemistry Teaching	31
J. L. A. French	
Low Expansion Ceramics from Devitrified Glasses	41
G. Don McTaggart	
Field Assisted Glass Sealing	47
G. Wallis, J. J. Dorsey and D. I. Pomerantz	
An Aluminum Foil Oven	51
L. E. Prescott	
Fused Quartz Its Chemical Constitution, Reactivity, Devitrification and Cleaning Procedures	56
N. G. Grafton	
Assembly Techniques for the Lippman Electrocapillarometer	61
Anne Hersom	
Intense Helium Light Sources for Optical Pumping Experiments	69
R. S. Collins, J. E. Legge, R. S. Timsit and J. M. Daniels	
Glass Techniques for Laser Fabrication	82
W. W. Campbell, Jr.	
Stress-Strain Measurements in Glass	87
Dr. John Glaser and Mr. George Parks	
New Group of Demountable Tube and Window Seals for Vacuum Operation	98
Charles DeWoody	
The Mechanical and Chemical Aspects of Glass Sealing	105
Marcus P. Borom	
New Information on Glass Fracture	117
Errol B. Shand	
Some Effects of Thermal Processes Upon the Structure and Properties of Glass	129
H. Eugene Powell	
In Attendance	139