



## CONTENTS

Light Scattering from Solids Using Gas Laser Sources . . . . .	9
James H. Parker, Jr.	
What the Glass Artisan Means to the Chemist and His Work . . . An Appreciation by a Working Chemist . . . . .	24
WaltheW Barnes	
Glass and the Science of Space Age Infrared Technology . . . . .	26
W. Harold Small, Jr.	
Glass Electrodes . . . . .	29
Dr. Normand C. Hebert	
Fiber Optics . . . . .	41
Fritz O. Kahl	
A High Pressure Short Pulse UP Lamp . . . . .	52
David Blessing	
Temperature Effects of Glass Properties . . . . .	60
Oscar H. Grauer	
Adjustable Glass Mount for Optics . . . . .	71
Edwin E. Eckberg	
A Method of Centrifugal Glasstooling of Various Flanges and Shapes Using a Carbon Roller . . . . .	77
Gerrit de Wilde	
Sealing Quartz Parts with Glass Transfer Tape . . . . .	80
Kitty Ettore	
Famous Names in Glass Apparatus . . . . .	87
J. Lees	
A Silver Chloride Seal . . . . .	94
W. W. Campbell	
The Scientific Glassblower—Past, Present and Future . . . . .	96
William H. Tozer	
Dielectric Strength of Solder Glass . . . . .	99
H. Eugene Powell	
Glass Tubing Manufacturing . . . . .	108
W. Thomas Moore	
The Construction and Modification of Glass Distillation Columns . .	121
S. E. Knisely	
In Attendance . . . . .	133