

JOURNAL OF THE



SMPTE

ENGINEERING • SCIENCE • TECHNOLOGY
FOR MOTION PICTURES • TELEVISION • INSTRUMENTATION • HIGH-SPEED PHOTOGRAPHY

617 MOTION PICTURES AND TELEVISION IN MEDICINE

Introduction • *Lowell Wentworth* / Contrast and Detail Perception in Television and Ciné Systems for Medical Fluoroscopy • *Edward W. Webster and Rosemarie Wipfelder* / Stereocineradiography • *Majic S. Potsaid* / Endoscopic Photography Using Fiber Optics • *Basil I. Hirschowitz* / Cinemicrophotography of Blood Flow in Man • *Roe E. Wells, Jr., Stephen Teicher, E. Robert Schildkraut and Harold E. Edgerton* / A Technique of Cinephotography of Sequential Serial Sections • *S. N. Postlethwait, Roy Mills and Karl B. Lohmann, Jr.* / Time-Lapse Cine Technique in Biology and Medicine • *C. George Lefeber* / Photooptical Instrumentation in Medicine • *Irving Rehman*

643 An Objective Method for Rating Picture Sharpness: SMT Acutance • *Edward M. Crane*

648 Picture Jump and Weave in Rotating-Prism Cameras • *John H. Waddell*

650 High-Speed Photoinstrumentation for a Hypersonic Wind Tunnel • *Robert L. Leighton*

654 Automatic Lens Design Illustrated by a 600mm f/2.0, 24° Field Lens • *Berlyn Brixner*

658 Nonadditive Mixing of Television Signals • *Winslow L. Hurford*

661 An Improved Method of Audio Level Control for Broadcasting and Recording

• *James F. Lawrence, Jr.*

664 Résumés—Resumenes—Zusammenfassungen

668 Errata and Lacunae

668 Proposed American Standards: Dimensions of 8mm Motion-Picture Projected Image, PH22.20; Dimensions of Transverse Cemented Splices on 16mm and 8mm Motion-Picture Film, Projection Type, PH22.24; Dimensions of Transverse Cemented Splices on 16mm and 8mm Motion-Picture Film, Laboratory Type, PH22.77

672 Proposed Constitution and Bylaws Amendments

674 The Status of Merger Planning of Scientific Photographic Societies

675 Nontheatrical Films—Interim Report No. 5 • *Thomas W. Hope*

volume 73 • number 8

AUGUST 1964

SMPTE



Technical Conference

NEW YORK CITY

Commodore Hotel

September 28–October 1

IN THIS ISSUE:

Advance Program
Technical Papers Sessions
Equipment Exhibit Directory