Alpha-Recoil Thorium-234: Dissolution into Water and the Uranium-234/Uranium-238 Disequilibrium in Nature: K. Kigoshi .......................... 47
Phenylmercuric Acetate: Metabolic Conversion by Microorganisms: F. Matsumura, Y. Gotoh, G. M. Boush ......................... 49
1,25-Dihydroxycholecalciferol: Identification of the Proposed Active Form of Vitamin D₃ in the Intestine: A. W. Norman et al. ...... 51
Fertilization of Rabbit Ova in vitro by Sperm with Adsorbed Sendai Virus: R. J. Ericsson, D. A. Buthala, J. F. Norland ................. 54
Motion-Induced Inhibition of Elongation and Induction of Dormancy in Liquidambar: P. L. Neel and R. W. Harris .................. 58
Quantitative Aspects of Plasma Membrane-Associated Immunoglobulin in Clones of Diploid Human Lymphocytes: R. A. Lerner, P. J. McConahey, F. J. Dixon ........ 60
Angiotensin-Forming Enzyme in Brain Tissue: D. Ganten et al. ........ 64
Hypolipidemia in a Mutant Strain of “Acatalasemic” Mice: S. Goldfischer et al. .................................................. 65
Southern Corn Leaf Blight: Susceptible and Resistant Mitochondria: R. J. Miller and D. E. Koepp......................... 67
Superior Colliculus: Some Receptive Field Properties of Bimodally Responsive Cells: B. G. Wickelgren ...................... 69
Delta-9-Tetrahydrocannabinol: Metabolism and Disposition in Long-Term Marihuana Smokers: L. Lemberger et al. ..... 72
How Does the Striate Cortex Begin the Reconstruction of the Visual World?: D. A. Pollen, J. R. Lee, J. H. Taylor ........................................ 74
Somatosensory Responses of Bulboreticular Units in Awake Cat: Relation to Escape-Producing Stimuli: K. L. Casey ........... 77
Caudate Nucleus Stimulation Retroactively Impairs Complex Maze Learning in the Rat: H. V. S. Peeke and M. J. Herz .......... 80

Technical Comments: Allergic and Classically Conditioned Asthma in Guinea Pigs: A. Bouhuys; D. R. Justesen ................ 82

COVER
Holographic interferogram revealing dangerous bonding defect located deep inside an automobile tire. By combining lasers and holography, the non-destructive method of “holographic interferometry” has introduced a new form of interferometry into optics, capable of revealing microscopic deformations on large-size objects. See page 11. [GC-OPTRONICs, Ann Arbor, Michigan]