Editorial
The Well-Rounded Man .............................................................. 1393

Articles
The Optical Spectrum of Lightning: L. E. Salanave ......................... 1395
A revival of the spectrographic study of lightning may help solve
some outstanding puzzles in cloud physics.

Federal Support of Research Careers: J. A. Shannon and C. V. Kidd .......... 1399
Government joins universities to increase the number of
career appointments in research.

Biochemistry of Aging: F. M. Sinex .............................................. 1402
The mechanism of aging presents a challenge to modern biochemistry
and biology.

Science and the News
U.N. Debate on Nuclear Tests: It Is Taking a Good Deal of
Time and Leaving Nobody Very Happy; Food Packaging: Industry
Consumer Spokesmen Differ on Rationality in the Supermarket .......... 1406

Book Reviews
Culture in History, reviewed by E. A. Hoebel; other reviews ............... 1411

Reports
Use of Fat-Soluble Fluorescent Brighteners on Microorganisms:
R. M. Lycette and L. R. Hedrick .................................................. 1415

Correlation of Chemical Structure and Taste in the Saccharin Series: G. H. Hamor .... 1416

Recent Change in the Pattern of Tree Growth in Northern Arizona:
W. S. Glock, S. R. Agerter, D. G. Smith ....................................... 1417

Interocular Transfer of Pattern Discrimination without Prior Binocular Experience:
R. A. McCleary and L. A. Longfellow .......................................... 1418

Radar Observation of Venus: I. Maron, G. Luchak, W. Blitzstein .......... 1419

On the Site of Action of Amethopterin: P. T. Condit .......................... 1421

An Overview of Sleep as an Experimental Variable (1940–1959): W. B. Webb .... 1421

Miniature Subcutaneous Frequency-Modulated Transmitter for Brain Potentials:
C. J. Sperry, Jr., et al. ................................................................. 1423

Passage of Saccharides from Cerebrospinal Fluid to Blood:
L. D. Prockop, L. S. Schanker, B. B. Brodie .................................... 1424

National Academy of Sciences: Abstracts of papers presented at the autumn
meeting .......................................................................................... 1425

Association Affairs
128th Annual Meeting: Program Summary ...................................... 1438

Departments
Forthcoming Events ....................................................................... 1440

Cover
Graphite cloth, single-ply plain weave, reinforced with clear plastic. Each yarn bundle
contains 1440 graphite filaments. Fabrics or filaments are combined with plastic resins
for molding of missile and rocket motor components. This specimen was prepared by
slicing parallel to one direction of the cloth before examination under the microscope
(about × 150). [National Carbon Company]
Editor's Summary

This copy is for your personal, non-commercial use only.