

353-03310  
876

**Editorial** Science and the Humanities ..... 1367

**Articles** Beetles, Competition, and Populations: *T. Park* ..... 1369  
An intricate ecological phenomenon is brought into the laboratory and studied as an experimental model.

Science for the Citizen: An Educational Problem: *J. H. Mathewson* ..... 1375  
Academic scientists have a responsibility for educating the nonscientist in the nature of science.

**News and Comment** NIH—New Grants Manual; Geological Survey—Public Relations; Loyalty Affidavit—Compromise ..... 1379

**Book Reviews** An Analysis of Conflict: *Q. Wright* ..... 1385  
Is economics the most suitable basis for developing a general theory of conflict?

*Experiments in Personality*, reviewed by *S. R. Maddi*; other reviews ..... 1388

**Reports** Search for Organized Elements in Carbonaceous Chondrites: *E. Anders* and *F. W. Fitch* ..... 1392

Electron Microscope Studies of Ribosomal Clusters Synthesizing Hemoglobin: *J. R. Warner, A. Rich, C. E. Hall* ..... 1399

Skin Resistance Recording in the Unrestrained Rat: *S. Kaplan* and *R. Kaplan* ..... 1403

Mechanism for Plant Cellular Morphogenesis: *P. B. Green* ..... 1404

**Departments** Meetings: Quantum Chemistry and Solid State Physics: Forthcoming Events ..... 1407

**Cover** Hemoglobin is synthesized in reticulocyte cells on a cluster of ribosomal particles. These clusters, called polyribosomes, can be isolated from osmotically lysed cells. The electron micrograph was made by depositing the clusters on an electron microscope grid and then shadowing with platinum (about  $\times 80,000$ ). See page 1399.

# Science

**138 (3548)**

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