### Editorial
Costly Cash ........................................................... 2009

### Articles
- Computer Simulation of Human Thinking: *A. Newell and H. A. Simon* ........ 2011
  A theory of problem solving expressed as a computer program permits simulation of thinking processes.
- Medical Research: Past Support, Future Directions: *D. R. Lindsay and E. M. Allen* .... 2017
  Aims of the National Institutes of Health are surveyed as its annual budget passes the half-billion mark.

### Science and the News
- Report on the Right Wing . . . The United Nations on Space, Birth Control . . . 2025
- A Classless Society?

### Book Reviews
- Disarmament, Arms Control, and Strategic Analysis: *P. Kecskemeti* ........ 2031
  Can strategic analysis reveal methods for controlling threats to peace and for preventing nuclear war?
- M. Kleiber's *The Fire of Life*, reviewed by C. D. Leake; other reviews .......... 2033

### Reports
- Repetition and Paired Associates Learning: *A. B. Kristofferson* ........ 2036
- Recommendations for the Nomenclature of Hemoglobins: *P. S. Gerald and V. M. Ingram* ........ 2037
- Demonstration of a Hypocalcemic Factor (Calcitonin) in Commercial Parathyroid Extract: *D. H. Copp and E. C. Cameron* ........ 2038
- A Pollen Profile from the Grassland Province: *P. B. Sears* ........ 2038
- Disinhibition of Inhibitory Conditioned Responses Following Selective Brain Lesions in Dogs: *S. Brutkowski and E. Mempel* ........ 2040
- Toxohormone-like Factor from Microorganisms with Impaired Respiration: *V. Callao and E. Montoya* ........ 2041
- Species Differentiation in Fish by Electrophoretic Analysis of Skeletal Muscle Proteins: *H. A. Lillevik and C. L. Schoemer* ........ 2042
- Synergism of Malathion against Resistant Insects: *F. W. Plapp, Jr., and G. W. Eddy* ........ 2043
- Flower Initiation in Excised Stem Disks of Wedgwood Iris: *A. S. Rodrigues Pereira* ........ 2044
- Leukemogenesis by Urethan in C57Bl Mice Bearing Isologous Tissues from X-Irradiated Mice: *I. Berenblum and N. Trainin* ........ 2045
- Effect of Ultrahigh Vacuum on Viability of Microorganisms: *D. M. Portner et al.* ........ 2047

### Departments
- Letters from *B. D. Davis et al.; J. E. McNutt and W. D. Kingery; F. R. Sias, Jr., and D. A. Holaday; H. E. Houghton* ........ 2007
- Plant Phenolics; Forthcoming Events ........ 2048

### Cover
Dinosaur tracks in Lower Cretaceous rocks, Bandera County, Texas. The locality, on West Verde Creek on the Davenport Ranch about 9 miles southwest of Bandera, was referred to by R. Bird in an article "We captured a 'live' brontosaur" in the National Geographic Magazine [105, 707 (May 1954)]. [Courtesy Shell Development Company. Photograph by Lawrence Hinton]