Editorial  Science Ambassadors ........................................... 267

Articles  Elementary Particles of Modern Physics: R. E. Marshak ................. 269

The properties of the 30 particles and antiparticles, their forces and conservation laws are summarized.

Hybrid Corn and the Economics of Innovation: Z. Griliches ......................... 275

Geographic differences in the use of hybrid corn are explained by differences in the profitability of that use.

Samuel Alfred Mitchell, Solar and Stellar Astronomer: P. van de Kamp .......... 281

Science in the News  Research Groups Explore Consequences of Disarmament Proposals; Another Round in Nuclear Test-Ban Talks ........................................... 282

Book Reviews  G. Myrdal's Beyond the Welfare State, reviewed by G. Colm; other reviews ....... 288

Reports  Isolation of an Unidentified Agent from the Respiratory Tract of Chickens:
R. A. Bankowski, R. E. Corstvet, G. T. Clark ........................................ 292

Age Determination by X-ray Fluorescence Rubidium-Strontium Ratio Measurement in Lepidolite; L. F. Hertog, II .................................................. 293

Rates of Submergence of Coastal New England and Acadia: C. J. Lyon and W. Harrison 295

Antithyroid Effects of Aminotriazole: T. H. Jukes and C. B. Shaffer ................. 296

Discrimination of Tones during Reinforcing Brain Stimulation:
B. Beer and E. S. Valenstein ...................................................... 297

Allelic Genes in the Housefly Producing Modified Enzymes That Cause Organophosphate Resistance: F. J. Oppenorth and K. van Asperen ............. 298

New Test for the Biological Assay of Oxytocin: C. Mendez-Bauer,
H. M. Cabot, R. Caldeyro-Barcia ................................................. 299

Feather Mites and Ornithosis: K. F. Meyer and B. Eddie ............................. 300

Rapid and Reversible Block of Electrical Activity by Powerful Marine Biotoxins:
W. D. Dettbarn et al. ........................................................................ 300

Eating or Drinking Elicited by Direct Adrenergic or Cholinergic Stimulation of Hypothalamus: S. P. Grossman ............................................... 301

Departments  Letters from F. D. Hole and F. F. Cleveland; J. M. Atkin; W. L. Gates; L. M. Hurvich,
D. Jameson, N. Geschwind, J. R. Segal; B. Willard .................................... 304

Free Radicals in Biological Systems; Forthcoming Events; New Products .......... 306

Cover  The full moon as photographed with the 36-inch telescope of the Lick Observatory on 17 January 1946. The dark maria (almost certainly lava fields) and bright uplands or terrae are plainly visible. Most lunar features, such as craters, can be seen only under oblique illumination. Parts of the uplands are apparently the original lunar crust, modified locally by impacts, while other parts are covered with rubble ejected from nearby mare basins or large impact craters. [Photograph is plate 1 of the Photographic Lunar Atlas, published by the University of Chicago Press; see page 290]