Editorial  The Florence Agreement

Articles  Low-Velocity Layers in the Earth, Ocean, and Atmosphere: B. Gutenberg
These layers increase the difficulty of locating buried explosions and may cause sonar booms.
Beno Gutenberg, Geophysicist: P. Byerly

The World into Which Darwin Led Us: G. G. Simpson
The Darwinian revolution changed the most crucial element in man's world—his concept of himself.

Science In the News  Environmental Radiation Studies Begun by Public Health Service in New Mexico and Missouri; Eisenhower and Macmillan Hold Talks on Soviet Call for a Moratorium on Underground Tests

Book Reviews  W. Longgood's *The Poisons in Your Food*, reviewed by W. J. Darby; other reviews


Recognition of Paired Trigrams as a Function of Associative Value and Associative Strength: L. L'Abate

Extracellular Invertase Production by Sexually Agglutinative Mating Types of *Saccharomyces kluyveri*: L. J. Wickerham and R. G. Dworschack


Effect of Kinetin on *Paramecium caudatum* under Varying Culture Conditions: R. Guttman and A. Back

Detection of an *Anaplasma marginale* Antibody Complex Formed in vivo: M. Ristic and F. H. White

Significance of the Presence of Exchangeable Magnesium Ions in Acidified Clays: I. Barshad

Epinephrine, Norepinephrine, and Acetylcholine as Conditioned Stimuli for Avoidance Behavior: L. Cook et al.

Glucose-6-Phosphatase and the Exchange of Glucose with Glucose-6-Phosphate: L. F. Hass and W. L. Byrne


Departments  New Jersey Academy of Science; Forthcoming Events; New Products

Cover  An insect gained entrance to an agar plate inoculated at five sites with *Pasteurella pestis* and left a record of its travels. It probably entered through the chipped rim of the petri dish. [H. B. Levine]
Editor's Summary

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