Editorial
Gea, Daughter of Chaos ....................................................... 1071

Articles
Randomized Cloud Seeding in Santa Barbara: J. Neyman, E. L. Scott, M. Vasilevskis ....................................... 1073
The effectiveness of cloud seeding during a period of three years is statistically evaluated.

Quantum Phenomena in Biology: C. Reid ............................................... 1078
Natural, ultraviolet, and high-energy radiation processes are compared.

Hans Friedrich Jensen, Biochemist: E. A. Evans, Jr. ............................................... 1084

Science in the News
Salary Report Presented by University Professors’ Group; $150,000 To Be Shared by Four Atoms for Peace Award Winners ............................................... 1085

Book Reviews
H. Muench’s Catalytic Models in Epidemiology, reviewed by W. Burrows; other reviews ............................................... 1091

Reports
Effect of Kinetin on Formation of Red Pigment in Seedlings of Amaranthus retroflexus: E. Bamberger and A. M. Mayer ............................................... 1094
Behavior and Beliefs during the Recent Volcanic Eruption at Kapoho, Hawaii: R. Lachman and W. J. Bonk ............................................... 1095
A Nonsteroidal Androgen: R. I. Dorfman ............................................... 1096
Nervous Regulation of Conditioned Hyperglycemia to Nociceptive Stimulation: E. Gutmann and B. Jakoubek ............................................... 1096
Synchronization of Division in Escherichia coli: P. A. Anderson and D. E. Pettijohn ............................................... 1098
Utilization of Organic Carbon by a Marine Crustacean: Analysis with Carbon-14: R. Lasker ............................................... 1098
Toxicity of Bacterial Exotoxins by the Oral Route: C. Lamanna ............................................... 1100
Effect of 5-Hydroxytryptamine and Iproniazid on Pregnancy: E. Poulson, M. Botros, J. M. Robson ............................................... 1101
Viruses Associated with Epidemic Hemorrhagic Fevers of the Philippines and Thailand: W. M. Hammon, A. Rudnick, G. E. Sather ............................................... 1102
Species Differentiation of Insects by Hemolymph Electrophoresis: M. van Sande and D. Karcher ............................................... 1103

Departments
Letters from J. H. Wiegand and B. H. J. Hofstee ............................................... 1088
Optical Rotation and Rotatory Dispersion; Forthcoming Events ............................................... 1105

Cover
Terrain of Santa Barbara County, California, where a randomized experiment on the effectiveness of cloud seeding has been under way since 1957. Part of Los Padres National Forest. See page 1073. [David Muench]