LETTERS
Flora of North America: A. W. Galston; Insulin Synthesis: S. A. Lakoff;
Arms Control: J. Lederberg and S. D. Drell; One Man's Family:
R. H. Shannon; Frog Health: D. S. Papermaster and E. Gralla;
Latin American Development: L. Tosi; P. G. Keeney

EDITORIAL
Blow-Hot. Blow-Cold Educational Policies

ARTICLES
A Distilling System for Purer Water: K. Hickman, I. White, E. Stark
Enzymatic Interconversion of Active and Inactive Forms of Enzymes:
H. L. Segal
On the Enzymology of Amino Acid Transport: A. Meister

NEWS AND COMMENT
Soviet-American Science Accord: Could Dissent Deter Detente?
Herbicides: Agent Orange Pulled from Vietnam May Go to the South Americans
immunology. Two Immune Systems Capture Attention

RESEARCH NEWS
ERTS: Surveying Earth's Resources from Space

BOOK REVIEWS
Impact of Insulin on Metabolic Pathways, reviewed by A. Rubenstein; Glucagon,
P. W. Felts; Behaviour of Wolves, Dogs and Related Canids, L. K. Corbett;
Aquaculture, J. D. Costlow; Biology of Halophytes, B. Osmond

REPORTS
Helium Flux from the Earth's Mantle as Estimated from Hawaiian Fumarolic
Degassing: J. J. Naughton et al.
Ductile Superconducting Copper-Base Alloys: C. C. Tsuei
Nile Delta: The Defunct Pelusiac Branch Identified: A. Sneh and T. Weissbrod


Crystallographic Orientation of Clinopyroxenite Produced by Deformation of Ortho-enstatite: R. S. Coe and W. F. Müller

Teleconnections in the Equatorial Pacific Ocean: K. Wyrtki

Lunar Cinder Cones: T. R. McGetchin and J. W. Head

Mechanisms of Trace Metal Transport in Rivers: R. J. Gibbs

Kilauea Volcano, Hawaii: A Search for the Volcanomagnetic Effect: P. M. Davis et al.

Genetic Variation in a Gradient of Environmental Variability: Marine Bivalvia (Mollusca): J. Levinton


Immunologic Manipulation of Metastases due to Herpesvirus Transformed Cells: R. Duff, E. Doller, F. Rapp

Translocation Trisomic Mice: Production by Female but Not Male Translocation Carriers: E. M. Eicher

Genetic Control of Song Specificity in Crickets: R. R. Hoy and R. C. Paul


ASSOCIATION AFFAIRS

WARD H. GOODENOUGH
CARY P. HASKINS

GEOLOGY AND GEOGRAPHY (E)
Helmut Landsberg
Ramón E. Biscaye
Raynor L. Duncombe
C. Towner French

INFORMATION AND COMMUNICATION (T)
Jordan Baruch
Scott Adams

DANIEL P. MOYNIHAN
PHILLIS V. PARKINS
WILLIAM T. GOLDEN
WILLIAM BEVAN
Treasurer
Executive Officer

ANIMAL SCIENCES (E)
Dorothy Bliss
Richard J. Goss
Robert A. Good
F. Douglas Larson

STATISTICS (U)
Frederick Mosteller
Ezra Glaser

ANTHROPOLOGY (H)
Richard N. Adams
Anthony Leeds
Roy L. Lounsbury
Michael A. Farrell

AGRICULTURE (O)
R. L. Muller
Louis J. Barten

BIOLOGICAL SCIENCES (G)
Dorothy Bliss
Richard J. Goss
Robert A. Good
F. Douglas Larson

MEDICAL SCIENCES (N)
Robert A. Good
F. Douglas Larson

ATMOSPHERIC AND HYDROSPHERIC SCIENCES (W)
Max A. Kohler
Louis J. Barten

The American Association for the Advancement of Science was founded in 1848 and incorporated in 1874. Its object is to further the work of scientists, to facilitate cooperation among them, to improve the effectiveness of science in the promotion of the public welfare, and to increase public understanding and appreciation of the importance and promise of the methods of science in human progress.

COVER

Female crickets are drawn to males of the same species by the male's calling song. By placing a tethered female upon a Y-maze and placing loudspeakers on her right and left, her responsiveness to various songs can be directly measured (actual size of cricket, 1 inch in length). See page 82. [C. Walcott, Biology Department, State University of New York, Stony Brook]