EDITORIAL
National Humanities Foundation ....................................................... 449

ARTICLES
Evolution of an Active Mathematical Theory: A. M. Gleason ....................... 451
Topology started with differential equations; its latest turn brings it back to the differential calculus.

The Heterogeneity of the Immune Response: J. W. Uhr .............................. 457
The quantity and nature of antigen can regulate a variety of immunological functions.

Empiricism in Latter-day Behavioral Science: V. E. Bixentine ....................... 463
Developments in this field, as in other sciences, invite critical review and corrective revision.

NEWS AND COMMENT
Ohio—Scientific Complex; Goldwater on Space ........................................ 465

BOOK REVIEWS
Rationale of the Space Program: T. C. Schelling ..................................... 473
An Introduction to the Study of Insects reviewed by H. B. Boudreaux;
other reviews by F. J. Dyson, D. E. Goldman, R. S. Sigafoos, B. W. Sitterly,

REPORTS
Ancient Granite Gneiss in the Black Hills, South Dakota: R. E. Zartman,
J. J. Norton, T. W. Stern ................................................................. 479
Persistence of DDT in Soils of Heavily Sprayed Forest Stands:
G. M. Woodwell and F. T. Martin ..................................................... 483
High-Pressure Polymorph of Iron: T. Takahashi and W. A. Basset ........................ 483
Cerium-144 and Cesium-137 Measurements in the 1963 United States Wheat Crop
and Milling Products: D. C. Sutton and K. R. Dwyer ............................... 486
Magnesium Compounds: New Dense Phases: P. Cannon and E. T. Conlin ............. 487
X-ray Diffraction Data on Two High-Pressure Phases of Calcium Carbonate: B. L. Davis

Tryptophan Synthetase from Neurospora: A Modification in the Reaction Scheme: M. D. Garrick, H. Elberfeld, S. R. Suskind

Human Myopathy with Giant Abnormal Mitochondria: G. M. Shy and N. K. Gonatas

Lobuloalveolar Differentiation in Mouse Mammary Tissues in vitro: R. R. Ichinose and S. Nandi

Amitrole Translocation in Agropyron repens Increased by the Addition of Ammonium Thiocyanate: W. F. Donnalley and S. K. Ries

Structural Differences between Two Types of “Heavy Chain” Disease Proteins and Myeloma Globulins of Corresponding Types: K. Takatsuki and E. F. Osserman


Polydactylism in the Offspring of Mice Injected with 5-Bromodeoxyuridine: J. A. DiPaolo


Hybridization of Rapidly Labeled Nuclear Ribonucleic Acids: R. P. Perry, P. R. Srinivasan, D. E. Kelley

Polyploidy Induced by X-rays in Chinese Hamster Cells in vitro: C. K. Yu and W. K. Sinclair

Congenital Anomalies Induced in Hamster Embryos with H-1 Virus: V. H. Ferm and L. Kilham

Preferential Segregation of Chromosomes from a Trivalent in Haplopappus gracilis: R. C. Jackson

Chromosome Puffs in Drosophila Induced by Ribonuclease: F. M. Ritossa and R. C. von Borstel

Genotype and Sex Drive in Intact and in Castrated Male Mice: T. E. McGill and G. R. Tucker

COVER

Integral curves of a first-order differential equation. The simplest problem in differential equations requires the determination of a family of curves from a knowledge of their tangents. These curves appear to be parallel in small regions but may diverge from one another in large regions. See page 451.
Editor's Summary

This copy is for your personal, non-commercial use only.

**Article Tools**  Visit the online version of this article to access the personalization and article tools:  
http://science.sciencemag.org/content/145/3631.citation

**Permissions**  Obtain information about reproducing this article:  
http://www.sciencemag.org/about/permissions.dtl