LETTERS

EDITORIAL
Soil and Coal: A Cost-Benefit Inquiry: S. Fred Singer 255

ARTICLES
Pollen Influx and Volcanic Ash: P. J. Mehringer, E. Blinman, K. L. Petersen 257
Nutritional Outputs and Energy Inputs in Seafoods: M. Rawitscher and J. Mayer 261
Beef Production Options and Requirements for Fossil Fuel: G. M. Ward, P. L. Knox, B. W. Hobson 265

NEWS AND COMMENT
FDA Reform: An Idea Whose Time Has Come 272
Experts Ponder Icebergs as Relief for World Water Dilemma 274
McGill Warns vs. Adversary Method 275
Coal: Invoking "the Rule of Reason" in an Energy-Environment Conflict 276

RESEARCH NEWS
Sulfuric Acid from Cars: A Problem That Never Materialized 280
Mathematics and Magic: Illumination and Illusion 282

BOOK REVIEWS
Concepts and Methods of Biostratigraphy, reviewed by W. C. Sweet; The Moon—A New Appraisal from Space Missions and Laboratory Analyses, G. W. Wetherill; Molecular Anthropology, R. J. Britten; Nutrition and the Brain, J. Dobbing; Books Received 285

REPORTS
Real-Time, Very-Long-Baseline Interferometry Based on the Use of a Communications Satellite: J. L. Yen et al. 289

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Paleodemography of the Libben Site, Ottawa County, Ohio: C. O. Lovejoy et al. 291

Gravitational Compression of Crystallized Suspensions of Polystyrene Spheres: R. S. Crandall and R. Williams 293

Telecommunication with Neutrino Beams: A. W. Sáenz et al. 295


Saltatory Motility of Uninserted Trichocysts and Mitochondria in Paramecium tetraurelia: K. J. Aufferheide 299

Gonadotropin-Releasing Hormone in Milk: T. Baram et al. 300

Arteriosclerosis: Is Stress-Induced Immune Suppression a Risk Factor?: E. C. Lattime and H. R. Strausser 302

Paternity and Genetic Heterogeneity in the Polygynous Bat, Phyllostomus hastatus: G. F. McCracken and J. W. Bradbury 303


Diazepam Maintenance of Alcohol Preference During Alcohol Withdrawal: J. A. Deutsch and N. Y. Walton 307

Erythrocyte Lipids in Heterozygous Carriers of Duchenne Muscular Dystrophy: J. L. Howland and S. L. Iyer 309


Elastase Release from Human Alveolar Macrophages: Comparison Between Smokers and Nonsmokers: R. J. Rodriguez et al. 313

Hippocampal Efferents Reach Widespread Areas of Cerebral Cortex and Amygdala in the Rhesus Monkey: D. L. Rosene and G. W. Van Hoesen 315


How Many Anticodons?: T. H. Jakes 319

Wolf-Pack Buffer Zones as Prey Reservoirs: L. D. Mech 320

Technical Comment: Patterns of Supernumerary Limb Regeneration: L. Glass 321


COVER Schematic impression of the Satellite Very-Long-Baseline Interferometer System. Two radio telescopes at widely separated locations are interconnected by a communications satellite, to permit real-time correlation of radio waves received at the two instruments from cosmic sources. See page 289 [Artwork by J. W. Johnson, professor emeritus, San Jose State University, San Jose, California]