LETTERS
Nickel Carbonyl: Prenatal Exposure: J. S. Warner; Good Menus and Fine Recipes for Absent Cooks: S. Dedijer; Review of Rasmussen Report: B. L. Welch; Sudden Infant Death: E. F. Rogers; Predictive Coding Techniques: S. Treitel

EDITORIAL
Can Meritocracy in Academe Be Saved?: J. D. Palmer

ARTICLES

NEWS AND COMMENT
Institute of Medicine Report Recommends Complete Overhaul of Food Safety Laws.

Briefing: Gene Splicers Simulate a "Disaster," Find No Risk; AIP Wins Case with IRS-Other Groups Seek Relief.
On Centennial Fever and Its Ironies.
The Solar Institute: Hobbled by DOE?

RESEARCH NEWS
Theoretical Physics Institute Gets Go Ahead.

Birds Fly. Why Can't I?

BOOK REVIEWS
Extinction and Survival in Human Populations, reviewed by N. Howell; Environmental Stress, J. M. Hanna; Wood as an Energy Resource, J. I. Zerbe; Books Received.
REPORTS

Tropopause Detection by Partial Specular Reflection with Very-High-Frequency Radar: K. S. Gage and J. L. Green ........................................ 1238

Climatic Ice Core Records from the Tropical Quelccaya Ice Cap:
L. G. Thompson, S. Hastenrath, B. M. Arnao ........................................ 1240

L. Amino Acids and d-Glucose Bind Stereospecifically to a Colloidal Clay:
S. C. Bondy and M. E. Harrington .................................................... 1243

Circadian Rhythm of Serotonin N-Acetyltransferase Activity in Organ Culture
of Chicken Pineal Gland: T. Deguchi .................................................. 1245

Mitochondrial DNA Analyses and the Origin and Relative Age of Parthenogenetic
Lizards (Genus Cnemidophorus): W. M. Brown and J. W. Wright .......................... 1247

Modified Bases Characterized in Intact DNA by Mass-Analyzed Ion Kinetic

Premature Senescence in Cultured Skin Fibroblasts from Subjects with
Cystic Fibrosis: B. L. Shapiro, L. F.-H. Lam, L. H. Fast ................................. 1251

Methane Efflux from Lake Sediments Through Water Lilies: J. W. H. Dacey
and M. J. Klug .................................................................................... 1253

Hydrogenase in Rhizobium japonicum Increases Nitrogen Fixation by
Nodulated Soybeans: S. L. Albrecht et al. ................................................. 1255

Ammonia Volatilization from Senescing Leaves of Maize: G. D. Farquhar,
R. Wetselaar, P. M. Firth .......................................................................... 1257

Mediatory Role of Calcium and Guanosine 3',5'-Monophosphate in
Adrenocorticotropin-Induced Steroidogenesis by Adrenal Cells:
J.-P. Perchellet and R. K. Sharma ........................................................ 1259

Narcotic Analgesia: Fentanyl Reduces the Intensity but Not the Unpleasantness of
Painful Tooth Pulp Sensations: R. H. Gracely, R. Dubner, P. A. McGrath .......................... 1261

Possible Mechanism for Pressurized-Liquid Tank Explosions or BLEVE's:
R. C. Reid .............................................................................................. 1263

Technical Comments: Noradrenaline and Seizures: S. T. Mason and
M. E. Corcoran; B. Tabakoff, J. Yanai, R. F. Ritzmann; Carbon's
High-Temperature Behavior: H. L. Strauss; A. G. Whittaker .......................... 1265

PRODUCTS AND MATERIALS

Automated Analysis of Particle Size Distribution; Bench-Top Centrifuge;
Pipe Tips Free of Trace Metals; Titrator; Standards for Liquid
Scintillation Counting; Photomicrograph Scale Marker; Implantable
Microprobe for Thermometry; Literature .............................................. 1268

COVER

Fifty-meter ice cliff near the margin of the 5650-meter tropical Quelccaya ice
cap which is located in the southeastern Peruvian Andes. The individual
layers, representing annual increments of accumulation, average 0.75 meter in
thickness. This marked stratigraphy offers the prospect of the first climatic
record from a tropical ice core. See page 1240. [Lonnie G. Thompson, In-
stitute of Polar Studies, Ohio State University, Columbus]