1159  This Week in Science

Editorial

1161  The Human–Voyager 2 Collaboration

Letters


News & Comment

1179  The Missing Crystallography Data
1181  Help Wanted: Director, NIH
1182  High-Energy Management Stirs Up Energy Research
1184  Smithsonian, Indian Leaders Call a Truce || Old Bones Solve New Problems
1186  White House, Congress Push Computer Plan

Research News

1187  In Search of the Plastic Potato || Redesigning Nature's Plastics Factories
1190  Say It Again in Plain Algebra || Algebra: A Horbed of Radicalism
1191  Computer-Age Stargazing
1192  Briefings: || Wistar Cleared by Argentina || Gupta's Defense || Saving Madagascar Wildlife || Amateur Hours on Hubble Telescope || The Selling of Cold Fusion || Cocaine Trends

Articles

1197  History of Meteorites from the Moon Collected in Antarctica: O. Eugster
1202  Experiments with High-Energy Neutrino Beams: J. Steinberger
1209  Visuomotor Coordination in Reaching and Locomotion: A. P. Georgopoulos and S. Grillner

Research Articles


Reports

1221  A Near-Optimum Parallel Planarization Algorithm: Y. Takefuji and K.-C. Lee
cover  The hoatzin, *Opisthocomus hoazin*, a neotropical leaf-eating bird, is the only bird known to have ruminant-like foregut fermentation. This unexpected digestive system in a small flying endotherm provides new insights into theoretical size limitations in vertebrate herbivores and the evolution of foregut fermentation as a digestive strategy. See page 1236. [Photograph by Stuart D. Strahl, WCI–New York Zoological Society]

1223 Shear Forces in Molecularly Thin Films: M. Schoen, C. L. Rhykerd, Jr., D. J. Diestler, J. H. Cushman


1227 Aerosols, Cloud Microphysics, and Fractional Cloudiness: B. A. Albrecht

1231 Evidence for a Heterogeneous Upper Mantle in the Cabo Ortegal Complex, Spain: J. Girardeau, J. I. G. Ibarughu, N. B. Jamaa


1236 Foregut Fermentation in the Hoatzin, a Neotropical Leaf-Eating Bird: A. Grajal, S. D. Strahl, R. Parra, M. G. Dominguez, A. Neher


1242 T Cell Receptor Gene Trans-Rearrangements: Chimeric γ-5 Genes in Normal Lymphoid Tissues: B. Tycko, J. D. Palmer, J. Sklar

1246 Activation of Bacterial Porin Gene Expression by a Chimeric Signal Transducer in Response to Aspartate: R. Utsumi, R. E. Brissette, A. Rampersaud, S. A. Forst, K. Oosawa, M. Inouye

1249 Acetylcholine and GABA Mediate Opposing Actions on Neuronal Chloride Channels in Crayfish: C. Pfeiffer-Linn and R. M. Glantz

Book Reviews

1259 The Politics of Earthquake Prediction, reviewed by D. Serwer

Products & Materials

1264 Hand-Held Voice Data Collection  ■ Scanning Electron Microscope for Wet Tissue  ■ Personal Bibliography Database  ■ Kit for Sequencing Gel Preparation  ■ Automatic Cell Separator  ■ Microprocessor-Controlled Pipetting  ■ Literature