247 This Week in Science

Editorial

249 Heroines and Role Models: M. F. Singer

Letters

250 Species Hybridization and Protection of Endangered Animals: G. D. Amato; R. M. Nowak; S. J. O'Brien and E. Mayr; E. R. Glitzstein

ScienceScope

255 Money woes at Stanford University; fiscal relief at the genome data bank; etc.

News & Comment

256 Tilting at the Space Station • NASA Squeezed, NSF Expands—for Now
258 Greenhouse Role in Reef Stress Unproven
259 Geographic Fission on Fusion
260 Does War on Cancer Really Equal the War on Poverty
261 Tilting Toward Megaprojects
262 Promising AIDS Drug Looking for a Sponsor • The Growing Anti-HIV Armamentarium
264 Briefings: Brain Food in Computer Games • UK OKs RU-486 • Who Are the Animal Righters? • SSC Fundraiser Resigns • Coming of Age for Mental Health • Skullduggery • Superchicken • Keeping Up?

Research News

266 Alzheimer's Research Moves to Mice
268 Radio Astronomy's Crumbling Showpiece
270 A Speedier Way to Decompose Polygons
271 Dancing With Death at Unzen Volcano
272 A Tentative Vote for Supersymmetry

Perspective

273 Oxygen Activation at the Diiron Center of Ribonucleotide Reductase: L. Que, Jr.

Articles

275 Fallout of Pyroclastic Debris from Submarine Volcanic Eruptions: K. V. Cashman and R. S. Fiske
281 Nonlinear Optical Materials: D. F. Eaton
287 Computation Underlying the Execution of Movement: A Biological Perspective: E. Bizzi, F. A. Mussa-Ivaldi, S. Giszter

Research Article


Reports

Submarine fallout deposits in the Mio-Pliocene Shirahama Group, 500 meters west of the Senjojiki, near the southern tip of the Izu Peninsula, Japan. Pieces of pumice (light colored) are an average of six to seven times as large as codisposed rock fragments (dark colored); this ratio suggests that the deposits are formed by fallout of these particles from a submarine eruption column. Dark layers mark zones of reworking where ocean currents preferentially transported the lightweight pumice. See page 275. [Photograph by R. S. Fiske, Smithsonian Institution]