

This Week

- 356 Waterways Carry Antibiotic Resistance
Janet Raloff
- 356 Cocaine use boosts heart-attack risk
Siri Carpenter
- 357 Canola could provide a new fat on the farm
Corinna Wu
- 357 Powdered platinum sheds all resistance
Peter Weiss
- 358 One injured nerve fiber heals another
John Travis
- 358 Depressed smokers ride immune downer
Bruce Bower
- 359 Sex ratios: Bad times wallop extra sons
Susan Millius
- 359 Rooting out dormant HIV-infected cells
Nathan Seppa

Articles

- 360 When Stones Come to Life
Researchers ponder the curious human tendency to view all sorts of things as alive
Bruce Bower
- 364 The Search for Animal Inventors
How innovative are other species?
Susan Millius

Letters

Irreverent exhumation

The public exhibition of the remains of Inca burials is a particularly insensitive and indelicate act ("Inca mummies emerge from deep freeze," SN: 4/17/99, p. 244). Continued exhumation of these remains appears to be a self-aggrandizing sideshow. "Study" to some archaeologists seems to imply license to investigate human remains at will, at great disrespect to both the dead and their living descendants. The means of death is irrelevant; the means of study and publication are irreverent. The responsibility of preserving the sites is for Peruvian Native American leaders to decide, not a foreigner from a distant culture or museum looking for "information."

Dolan Eargle
University of California, San Francisco
San Francisco, Calif.

Beta, gamma, what's the problem?

"Radiation helps break down toxic waste" (SN: 4/10/99, p. 229) states that strontium in radioactive waste emits gamma rays. The only isotope of strontium with a half-life greater

than 1 year is Sr-90, with a half-life of about 28 years. This is the isotope of concern in high-level waste. Sr-90 and its daughter yttrium-90 are pure beta emitters. They emit no gammas. Their betas are very energetic and probably also help degrade toxic chemicals.

Jesse Coleman
Tuscumbia, Ala.

Strontium-90 is, indeed, one of the dominant radioactive isotopes in tank waste and emits beta particles, says Donald M. Camaioni of the Pacific Northwest National Laboratory in Richland, Wash. Its subsequent decay products, however, emit both gamma and beta radiation on their way to becoming stable isotopes. "The chemical effects of gamma and beta radiation differ little," he adds. "Both are ionizing radia-

CORRECTION

The word polyandry was used incorrectly in "Battle of the sexes" (SN: 5/15/99, p. 312). Polyandry is a mating system in which the female mates with more than one male, not one in which both males and females mate with multiple partners throughout their lives.

Research Notes

- 362 Behavior
Sounds like dyslexia
Feeling better with fish oil
- 363 Computers
Factoring with TWINKLE
Data storage on a global scale
- 367 Science & Society
Nuclear secrets: What's been stolen?
DOE responds to Cox report's charges
- 367 Materials Science
Nanotube strips deliver muscle power
A new route to a superhard material?

Departments

- 354 Books
- 355 Letters



Cover: The brassy, sassy blue jay belongs to a group of birds that ranks high when researchers tally reports of novel ways birds get a meal. Unusual foraging tactics offer fodder for the study of innovation in animals.
Page 364 (Photo: Cornell University)

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tion. Gamma just does its damage over a greater distance." Cesium-137, which is both a gamma and a beta emitter and has a 30-year half-life, is also present in large quantities in underground storage tanks. —C. Wu

Your article states that hazardous gases are produced by the breakdown of organic material, but it says nothing about any gas other than hydrogen. So, what is the problem?

Jim LeSire
San Diego, Calif.

Hydrogen poses an immediate threat because of its flammability. Volatile organic gases are probably formed also. —C. Wu

Light news and entertainment

The article "Slow motion sets in when the light dims" (SN: 4/10/99, p. 228) is very intriguing. The rod system is not only much more sensitive than the cone system but also is much more sensitive to the short wavelengths (blue and violet), with the result that light sources rich in these wavelengths are much

Letters continued on p. 366