A fluorite structure type forms in Gd₂Ti₂O₇ during heavy-ion irradiation but does not suppress amorphization (6). Similarly, despite its fluorite structure type, CaPuTi₂O₇ readily amorphizes at similar low doses from alpha decay of plutonium (8). Therefore, the critical parameter for radiation resistance may not be the fluorite structure type, as Sickafus et al. suggest, but rather the energy barriers to damage recovery.

In contrast to the behavior of Gd₂Ti₂O₇, we have demonstrated the systematic increase in radiation resistance as Zr is substituted for Ti. Under repository conditions, Gd₂Zr₂O₇ containing 10 weight percent plutonium-239 (half-life of 24,100 years) will be radiation resistant for at least 30 million years, whereas Gd₂Ti₂O₇ will completely amorphize in less than 800 years (1).

William J. Weber

Pacific Northwest National Laboratory, Richland, WA 99352, USA. E-mail: bill.weber@pnl.gov

Rodney C. Ewing

Department of Nuclear Engineering and Radiological Sciences, University of Michigan, Ann Arbor, MI 48109, USA. E-mail: rodewing@umich.edu

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- 9. Sponsored by the U.S. Department of Energy, Office of Basic Energy Sciences, Division of Materials Sciences.

CORRECTIONS AND CLARIFICATIONS

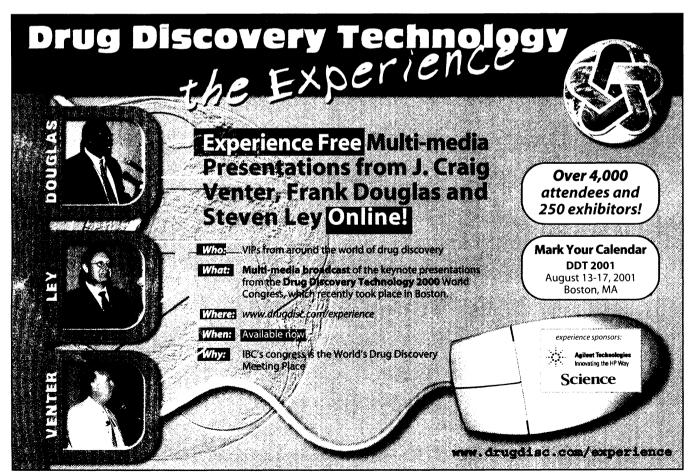
Pathways of Discovery: "One hundred years of quantum physics" by D. Kleppner and R. Jackiw (11 Aug., p. 893). On page 895, Lord Rayleigh, not Lord Kelvin, wrote a letter to Niels Bohr regarding Bohr's 1913 paper. The top photo on page 897 was incorrectly credited: it should have been credited to A. Zeilinger, Rev. Mod. Phys. 71, S288 (1999). And co-author R. Jackiw is the Jerrold Zacharias (not "Jacharias") Professor of Physics at the Massachusetts Institute of Technology.

Table of Contents: Photo titled "Modern glacial retreat" (14 Jul., p. 208). Credit for the photo, a view from the summit of Mt. Gould of the remnants of Grinnell Glacier in Glacier National Park, Montana, was not provided. The photo was supplied courtesy of Daniel B. Fagre of the U.S. Geological Survey.

News Focus: "Biotech research proves a draw in Canada" by Anne Simon Moffat (30 June, p. 2308). The first item, "Making plants more stress tolerant," incorrectly stated that Peter Steponkus used one of the transcription factor genes identified by Kazuko Yamaguchi-Shinozaki and Kazuo Shinozaki to transform Arabidopsis plants. Instead, he used plants transformed by the Shinozakis for his experiments.

Report: "Uninterrupted MCM2-7 function required for DNA replication fork progression" by K. Labib et al. (2 June, p. 1643). The URL cited in note 11 for the location of supplementary data at Science Online is incorrect. The correct URL is www.sciencemag. org/feature/data/1048585.shl

Policy Forum: "A nuclear solution to climate change?" by W. C. Sailor et al. (19 May, p. 1177). In the accompanying table, the units for the entry "Total per capita," referring to energy consumption, should have been GJ/year, not EJ/year.



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