molecular weight (1). The ultimate cure for the greenhouse should involve recycling of atmospheric carbon, not simply creating additional storage in various reservoirs. A marine farm has good potential for recycling carbon and reducing atmospheric pollution through production of clean-burning fuels. We urge that consideration be given to "Johnny Kelpspore and the Greenhouse."

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REFERENCES

- 1. K. T. Bird and P. H. Benson, Seaweed Cultivation for
- Renewable Resources (Elsevier, Amsterdam, 1987). 2. R. Streichenberger and W. J. North, unpublished data.

The Global ReLeaf effort described by Gregory Byrne (News & Comment, 21 Oct., p. 371) may be a worthwhile effort aimed at reducing atmospheric carbon dioxide. The proposed 100 million trees would certainly absorb carbon dioxide, but the impact on the carbon dioxide productiondestruction equation is likely to be far greater than that suggested in the article. American Forestry Association executive vice president R. Neil Sampson is quoted as saying, "Those [trees] planted in urban areas would ... help shade residences, leading to a savings in air-conditioning costs of \$4 billion a year." That cost represents about 6% of all U.S. residential electricity consumption and the avoided combustion of 16 billion tons of coal. Avoiding the combustion of the coal saves the release into the atmosphere of about 60 billion tons of carbon dioxide, three times what is absorbed by all the trees.

If the estimates of the American Forestry Association are correct, high priority should be placed on the planting of trees in locations where they shade air-conditioned structures, as those trees may have about four times the impact in decreasing atmospheric carbon dioxide as trees planted in other locations.

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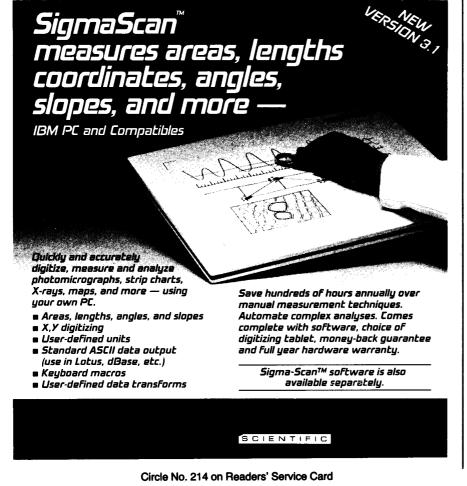
I read with interest Byrne's article "Let 100 million trees bloom." The article points out that 100 million additional trees would remove about 18 million tons of carbon dioxide from the atmosphere each year and then goes on to state, "an estimated 6 billion tons of carbon dioxide from fossil fuels enter the atmosphere each year." The 100 million trees would therefore remove about 0.3% of the additional carbon dioxide.

A few simple calculations show that *all* of the additional carbon dioxide introduced by fossil fuels could be removed by a 2% increase in the quantity of phytoplankton in the world's oceans. We have effected marvelous improvements in the production of land-based plants. Could we not produce a 2% increase in the ocean's phytoplankton?

HORST HOYER 165 Watchung Avenue, Montclair, NJ 07043

Erratum: In the report "Single-chain antigen-binding proteins" by Robert E. Bird *et al.* (21 Oct., p. 423), references 17 and 18 were inadvertently interchanged. Reference 17 should have been to J. S. Huston *et al.*, *Proc. Natl. Acad. Sci. U.S.A.* 85, 5879 (1988), and reference 18 should have been to D. Scandella, P. Arthur, M. Mattingly, and L. Neuhold, *J. Cell Biochem.* 9B, 203 (1985).

Erratum: The proportion of dogs among animals used in research was incorrectly reported in Constance Holden's article "Billion dollar price tag for new animal rules" (News & Comment, 4 Nov., p. 662). Dogs make up about 1% of research animals, according to the Office of Technology Assessment. Primates make up about 0.05%.



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