

The Weekly Newsmagazine of Science

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**Cover:** Though bright nighttime illumination can extend our daily activities, it can also tamper with the body's production of a key brain hormone. Studies now hint that perturbing this hormone's production long term may render the body vulnerable to cancer. Page 248 (Photo: © Frank Grant/International Stock)

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# Letters

## Close calls

American marketers discovered the smallworld phenomenon ("Close Connections," SN: 8/22/98, p. 124) in the late 1970s, when the virtual oil shortage triggered "shortages" of all manner of goods. When Johnny Carson joked one evening that he had heard there was going to be a shortage of toilet tissue, store shelves all over the country were stripped bare the next day. A few years later, the Coleco Co. used well-publicized "shortages" of its Cabbage Patch dolls in strategically located stores to drive up sales and prices very quickly. Today, the manufacturers of Beanie Babies are using the most sophisticated technique of making random but secret numbers of each of its toys, creating a collector's market for the rarer ones, but forcing buyers to depend on information networks to discover which ones have potential value.

All of these phenomena depend on relatively few people communicating information to their own circle of friends and relatives, both near and far, but these contacts rapidly engulf the entire nation. And don't forget pyramid schemes and multilevel marketing. Heaven help us if researchers succeed in formulizing this process. With the Internet out there, the whole world is vulnerable!

Martha Claudio Chica, Calif.

I read the article "Close Connections" the day after learning about another small world. A mathematician's "Erdös number" is his distance from the legendary Paul Erdös as measured by coauthorship. The 485 mathematicians who coauthored papers with Erdös have an Erdös number of 1. The rest have an Erdös number one greater than the lowest Erdös number of any mathematician with whom they have coauthored a paper. Almost every practicing mathematician has a finite Erdös number. Erdös numbers are tracked on the Erdös Number Project's Web site (http://www.acs.oakland.edu/~grossman/ erdoshp.html).

Rollins Turner Tampa, Fla.

You can read more about Erdös numbers in a column archived on the Science News Web site (www.sciencenews.org/sn\_arch/6\_15\_96/ mathland.htm).

—I. Peterson

Some readers of "Close Connections" might be interested in a Web site (www.sixde grees.com) that attempts to fulfill the sixdegree connection by registering people and the people they have met and their hobbies. It is hoped that through your degrees of contacts, you can come into contact with someone who meets whatever criteria you are looking for. This, of course, means that you have to get many people registered.

David H. Kaplan East Granby, Conn.

#### The trouble with magazines

There is only one problem with the beautiful heptoroid pictured in "Twists through space" (SN: 8/29/98, p. 143). I couldn't touch it and feel its curves and holes

Elizabeth Oscanyan Philomont, Va.

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