Science

**Notice to Readers** 

As of 23 November 1998.

Science's European headquarters will have the

following new address:

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the NSF encourages promising scientists to study and contribute to education, thus positioning fellows to assist educational reform

efforts at all levels. Simultaneously, the industrial sector is providing funding for initiatives that fellows with precisely this training can facilitate (J. Couzin, "A record grant for college programs," News of the Week, 18 Sept., p. 1779). Such opportunities encourage valuable new collaborations among scientists and educators. Current fellows are working cooperatively with teachers and education researchers to develop and rigorously evaluate novel curricula, software, and a variety of learning materials

that stimulate critical thinking in diverse classroom settings.

Programs like PFSMETE give scientists the opportunity to create new niches in the academic and private sectors. Although still in its infancy, the PFSMETE program exemplifies the type of initiative that will allow doctoral recipients to adapt to the changing employment environment. We encourage other private and public funding agencies to contribute to these creative efforts.

## PFSMETE fellows

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#### References

- Trends in the Early Careers of Life Scientists (National Research Council, Washington, DC, 1998), available at www.nas.edu
- 2. Nature 395, 101 (1998).

## **Internet Friendships**

The item "Internet hazardous to social health?" (NetWatch, 11 Sept., p. 1567) states that Robert Kraut's work is "[t]he first study of how the Internet affects people's social lives." However, in 1997, we published a paper (1) about community involvement and friendship formation among Internet users. In November 1995, we carried out a national random survey of nearly 3000 Americans. Contrary to the pessimistic predictions of numerous scholars and observers, our survey revealed no support for the hypothesis that Internet use is diminishing community participation and social integration. Our study compared users' and non-users' membership in religious, leisure, and community organizations, controlling for demographic differences.

In our paper, we also reported on the re-

sults of surveying 601 Internet users about friendship creation through the Internet. Despite ongoing skepticism that the Internet is

inimical to meaningful social interactions, we found that a substantial minority of users (14%) had established friendships through the Internet. Of those, three out of five reported meeting one or more of their Internet friends. These results suggest that the Internet is indeed a medium where friendships can be developed.

Our results report attitudes expressed at one point in time. More studies are needed to monitor trends in the impact of the Internet on people's social lives.

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#### References

1. J. E. Katz and P. Aspden, Commun. Assoc. Comput. Machin. 40 (no. 12), 1 (December 1997).

## Publishers' Honeymoon?

To Steven Bachrach et al.'s recommendation (Policy Forum, Science's Compass, 4 Sept., p. 1459) that a publisher should no longer demand that a scientific author surrender copyright, Floyd E. Bloom (Editorial, 4 Sept., p. 1451) rejoins that, by virtue of a publisher's efforts in editing, proofreading, and distribution, transfer of copyright is not only deserved but "critical to the process of communicating scientific information accurately." The grant to a publisher of substantial auctorial rights is a familiar quid pro quo. The foregoing rejoinder leaps to the stronger conclusion that the grant must be a copyright transfer. Publisher reward for investment, authority to pursue infringers, and a nonexclusive privilege to republish—these and other benefits stressed by Bloom have long flowed by means of authors' licenses, which Bachrach et al. do not discuss, of "first serial rights." Manuscript licensing is analogous to a museum's lending items of its collection rather than selling them. An author's freedom to republish has heretofore posed little threat to a first-journal publisher, because competing journals decline works already published. Hence, in foregoing copyright ownership, publishers have lost nothing but permissions fees, a negligible prospect when library holdings and the pace of progress leave little appetite for anthologies.

The Internet has boosted the social val-

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