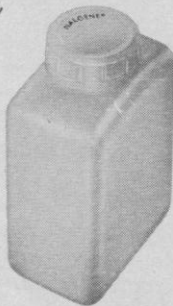


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LETTERS

Problem-Oriented Research

In his editorial (12 Mar.), Long has omitted an important issue—the relationship of applied research to the application of research. The application of research is not a simple process, but rather an interdisciplinary activity of great complexity. It takes place at the interface between knowledge and action. At that interface there are differences of language, psychology, and values.

The experience of industry, and of such mission-oriented agencies as National Aeronautics and Space Administration and the Department of Defense, has shown that successful application of applied research is very difficult if there is not a close and continuous interaction between those who are doing the research and those who are expected to use the results of research. The possible consequences of such interactions and their effect on the freedom and independence of the university and its programs should be carefully considered by those who would like to see more applied research for the public good done in universities.

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Male Bias and Women's Fate

In a letter (12 Feb.) Demorest Davenport defends the widespread discrimination against women in science on the grounds that women are (for a variety of reasons kindly supplied by M. B. Jensen in a following letter) too irresolute to be trusted to succeed in the opportunities that might be offered to them. The paucity of good openings for female scientists, and the substandard character of those that are available, is proof that the male scientists who run the establishment are largely in agreement with Davenport's views.

Yet the argument is one that could be made in better conscience by a physicist or a geologist than by a biologist. The physical scientists keep their female graduate students down to a tiny minority, and thus avoid the paradox of training those whom they would not employ. Biologists, however, have not been so fastidious. Beguiled by lavish federal funds for graduate student

training, the men who run our graduate biology departments have played a shameless numbers game, eagerly enticing women students to swell departmental rolls and bring in the money. The inconvenient fact that winning a Ph.D. would be unlikely to entitle a girl to more than second-class citizenship in the scientific world has, of course, gone unmentioned. The acceptance of this situation is to many men merely a matter of being realistic, though some are honest enough to admit that "cynical" would be a better word. The best word for it would be stronger.

During the 1960's, the percentage of Ph.D.'s in biology awarded to women ranged from 16 percent in the 11 most prestigious institutions to more than 30 percent in numerous others. I should like to ask Davenport who was a department chairman during that decade: How many members of my unreliable sex has his department admitted in recent years? How many have been awarded doctorates? Why?

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In their attempts to justify lower salaries for women scientists, both Davenport and Jensen assume that there are "no data" on the relative scientific productivity of men and women and that such comparisons are only "theoretically possible." As readers of *Science*, they should not have to rely on what they "have heard" or would be "willing to bet" on what they "think the results would be," since a recent article on this subject noted the *higher* productivity of women in science (1). Or do they feel that an obligation to consider all available evidence only applies in the laboratory, and may conveniently be discarded when one is dealing with trivial matters like human aspirations?

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Reference

1. M. S. White, *Science* 170, 413 (1970).

By resorting to hearsay in the absence of data, Jensen has himself already refuted at least one prejudice against women which assigns gossip to the female domain.

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