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Write for Bulletin SB-245A



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Letters

Professional Education in Russia

If the summary in "Science and the news" is correct [Science 135, 204 (19 Jan. 1962)], Nicholas DeWitt seems to misinterpret Russian scientific and professional education in at least two respects.

1) Charitably, or perhaps optimistically, we include undergraduate colleges among our "institutions of higher education" (ibid. Table 1, p. 205). The graduates of Soviet secondary schools, like graduates of the French lycée or German gymnasium, at the age of 18 have reached approximately the same educational level as the American student who enters his junior year in college. Accordingly, 30 percent of Soviet students (Table 1, line 4) had completed what amounts to about 2 years of our college, whereas it appears that only 23 percent of our eligible students entered the freshman year (Table 1, line 5)

2) It is probably true that "no higher educational establishment in the U.S.S.R. offers non-specialized professional instruction such as the general studies or liberal arts programs common in American colleges and universities." However, I think it is wrong to conclude from this that our Soviet colleagues "lack . . . humanistic education and disregard . . . cultural, ethical and social values cherished by the West." The Russians I have met over the years seem to be less well educated in painting and sculpture than many of my colleagues in France or Britain or this country. However, they are perhaps more broadly educated than are most of us in literature and the performing arts. I can cite a Russian neurologist, an illiterate shepherd boy before the Revolution, who could discourse on modern French literature, or a neurosurgeon who could quote Shakespeare as well as Pushkin extensively-though both in Russian. These are older people, but I have met a few young scientists who also seemed to be at least as well cultivated as our own graduate students or young Ph.D.'s-which may not be saying very much, of course.

A significant and perhaps even a more objective measure of the comparative cultural levels of our own and of Soviet students could be provided by figures on attendance at theatres, concerts, and so on, and by an analysis of the reading material, type and number

of literary journals, their circulation, and the use of library facilities. From the few data I have seen on this score, it appears that the cultural level in the U.S.S.R. is not lower than the level in our own country.

It would be much more significant and healthier for our education if we compared commensurable quantities, though this may be difficult and sometimes, perhaps, even unpleasant. Furthermore, it is deplorable to say, as DeWitt does, that Russians show "disregard for the cultural, ethical and social values cherished by the West." The Russians seem to have the same Greco-Judeo-Christian cultural and ethical (though not religious) values that dominate the West. Their social values, undoubtedly, differ from ours, but so do those of many other civilized countries.

HARRY GRUNDFEST

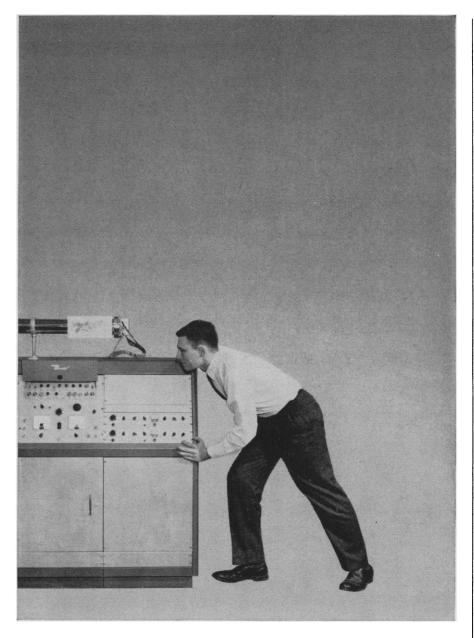
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Space Research

I was interested as well as intrigued to read Howard Margolis's note "Money for space: The program's managers fear the public does not understand the issue" [Science 134, 1602 (1961)]. The case of the public's not understanding the issue on the reasons why the Administration should spend \$20 billion on space research and extraterrestrial projects does require serious attention. While research in general science and technology is an accepted part of the work of present civilized society, we of the underdeveloped countries fail to fathom and to conceive clearly why such a staggering amount should be spent on space research only. This amount could well-nigh feed, clothe, and shelter Asia's teeming millions. I wonder whether it is really necessary to spend such a large amount at this stage on such projects. Could not this amount be more profitably utilized in other fields of research which directly affect humanity on earth?

We of the underdeveloped countries place a high value on research, for it is this very characteristic that has enabled some of the Asian countries to industrialize themselves much more rapidly than would have been possible otherwise. The practical benefits are clearly visible here. However, when it comes to spending staggering amounts to send

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Letters

(Continued from page 12)

a man to the moon or Mars, our intellectual capacity gets stratified in trying to conceive the final implications. I submit that, in all fairness, the vast intellectual, scientific, and technical talent possessed by the American nation should be channelized to carry out practical and down-to-earth research of a kind that would alleviate human suffering and misery and make life on earth—rather than on the moon or Mars-more pleasant and happy, not only for the people of the Western nations but for the world at large. The basic object of research would only then be fully justified.

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Applied Anthropology

While the review of my book Toward a Science of Mankind (1) by Richard B. Woodbury which appeared in Science (2) is friendly and sincere, it so misrepresents both the aims and the thesis of the book as to prejudice the reader not only against it but also against what seems to me to be a very promising recent development in the scientific study of man. I would therefore like to correct some misunderstandings which emerge from the review and at the same time to present very briefly an idea of the purpose of the book.

In the first place, Toward a Science of Mankind was written partly to try to dispel the notion, widely current among both laymen and social scientists, including anthropologists, that applied anthropology, or indeed applied social science in general, need necessarily involve the manipulation of human beings or groups toward preconceived goals superimposed by administrative agents (not the anthropologist himself as naively stated in the review) from without the group, whether such agents be governors, business executives, or military dictators. Although the role of the human-relations engineer, who commonly places his administrator-employer in a position of "arbiter of mankind's goals," is discussed at some length (1. pp. 17-22), one of the main contributions of the book, I believe, is the fact that in it an alternative role for the anthropologist concerned with applica-