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is the excellent correlation between Ph.D. production in given areas of research at the various institutions and the federal research funds which they receive in these areas. The point raised by the subcommittee simply shows the great disparity among the disciplines in the cost of research per graduate student. For an institution specializing in research in oceanography or radio astronomy, for example, the cost of equipping a student may be hundreds of times that found in a university which is strong in research of a purely theoretical nature.

A third concern of the subcommittee is the decrease in some disciplines of the percentage of new teachers holding the Ph.D. degree, and this is laid to the failure of federal research funds to raise the general level of training in university faculties. The figures given include teachers in universities, colleges, and junior colleges. One might legitimately wonder how we have managed to do as well as we have in the face of the tremendous growth in the number of science students and the increase in numbers of junior colleges in recent years. Perhaps the subcommittee should have asked what these statistics might be if we had not had federal research funds, and, to be fair, it should also have noted that the proportion of Ph.D. teachers in some science and engineering disciplines has actually increased...

The key argument in the report, and that of most critics of federal support of basic research, concerns the concentration of funds in a few institutions. This concentration exists as a result of the policy of using research funds to support what is judged by scientists and engineers to be the best research. If we are to use research money to accomplish the additional purpose of spreading research more widely, with immediate quality as a secondary objective, then let's do this honestly and not blame the federal agencies for failing to do a job they were not commissioned to do. There are, of course, several programs already in existence which have the effect of spreading research support to more individuals and more institutions. Examples are the various institutional research grants which delegate to the university the choice of the specific research to be supported, and NSF's Engineering Research Initiation Grants, in which young faculty members com-
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