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their field of study is potentially the most dynamic of all. Too often they have been ignorant or even contemptuous of process, and to all appearances, involved mainly in the invention of complex and rather meaningless terminologies. But these taxonomists, anatomists, and ecologists do not express the essence of their specialties any more than does the molecular biologist who thinks all plants and animals are more or less identical except that they contain slightly different DNA's, or than the physiologist who has no knowledge of or interest in the functioning of the parts of his organism in any environment other than the laboratory incubator or the test tube.

For the society we live in to function and advance we need every encouragement, not only to biologists and other scientists, but also to musicians, artists, writers, sociologists, engineers, plain every-day working people, and others, with no peck-order intended. Similarly, all pertinent fields in biology must be encouraged if we are to maintain a healthy science and continue on really to understand and control the living world around us.

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Western Europe: Research and Development

I agree with your general observations on the rapidly advancing state of research and development in Western Europe [*Science* 140, 773 (17 May 1963)]. However, some of your comparisons regarding the present situation are probably not valid.

Commerce alone does not determine the relative technological position of nations, particularly when one of those nations has vastly different standards of external and internal modes of commerce. Your values for research costs in Europe are much too low. Perhaps the figure of one-fourth represents the situation as it was quite a number of years ago.

With respect to most of the parameters—size of the effort and generation of new ideas—the United States can certainly be said to be ahead of any nation in Europe. However, the Europeans have the advantage that they are seriously examining the question of the proper level of research and development expenditure in relation to eco-

conomic growth at a time when their research and development expenditures are still relatively low. Consequently, they may be able to make better use of future expenditures.

ARNOLD KRAMISH
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Tribute to F. R. Moulton

I often wonder whether the present officers of the AAAS, to say nothing of its members, realize the extent of their indebtedness to Forest Ray Moulton, with whom I had the privilege of working in the Association from 1943, when he was 71, until 1948, when he retired. He died in 1952.

It is not my intention here to write a biographical sketch of Moulton. I merely want to point out that Moulton in his 70's was still an enormously strong and able man, and was absolutely devoted to the advancement of the AAAS. Perhaps if I called him the de Gaulle of American science, I would convey briefly a fairly accurate impression of his characteristics. Moulton was admirable, but to most people not lovable, and he could be almost ruthless in his drive to build up the AAAS. Unfortunately, I think, he scorned the art of social diplomacy and lived a rather lonely life. However, such a man was needed to conduct negotiations for the purchase of *Science* and the *Scientific Monthly* from the Cattell estate.

Today *Science* belongs to the Association through Moulton's efforts; the headquarters building of the Association has its present fine location at Scott Circle because Moulton selected and procured the site; the excellence of the AAAS symposium series stems from his personal editorial work; and the solvency of the Association during his period was assured by his careful, some would say penurious, fiscal management. Remember that his were the days before government support of science became prevalent, that he had been born in a log cabin in Michigan, and that his distinguished career in celestial mechanics at the University of Chicago was the result of his native ability and tireless personal efforts.

I think of Moulton as the most rugged individualist I have known—the builder of the AAAS during a critical decade of its history. As such, it would seem fitting to remember and honor his

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