

agement. And adjustment to it, we may add, must be by way of scientific management—scientific management applied more intensively to procedures of enterprises as independent units and to procedures of enterprises as interdependent links in a processing and distributing chain.

WE are pleased to be able to present a statement by so competent an authority as M. de Fremenville concerning Henri Fayol and his Doctrine Administrative. Fayol was a noble character, a great engineer and a successful administrator. His doctrine is a significant contribution to the science and the art of management, and has attracted much attention in France; so much, in fact, that there was organized some years ago an association of Fayolists—Centre d' Etudes Francaise. There is also in France an association of students of the Taylor doctrine, Conference de l'Organisation Francaise, of which M. de Fremenville is president. Recently, we are happy to record, these two organizations have become associated in the Comité International de l'Organisation Francaise, which is in turn a Section du Comité International de l'Organisation Scientifique. France is indeed, fortunate that her characteristic interest in scientific inquiry provided a common interest which inspired and promoted a union of these influential management societies.

THE article by M. de Fremenville, the interesting account by Wallace Clark of his work and observations in Poland with the Kemmerer Mission, and the group of addresses on "International Evening," together emphasize the extent to which the doctrine of scientific management has become international. We have recently received a letter from Henry S. Dennison, now in Geneva, in which he expresses astonishment at the amount of printed matter concerning scientific management and the unanimity of acceptance of the theories in Europe. International cooperation in the development of a science of management must now take the form of world-wide analysis and comparison of experiences under varying social and industrial conditions. Organizations for such cooperation are in process of development. For years the French have been close students of management, have had their groups of Fayolists and group of Taylorites, and these groups, as M. de Fremenville explains

in his article, have joined for the study of doctrines and practices of management. The First International Management Congress at Prague in 1924 stimulated the interest of central and eastern Europe, which resulted in provision for future international congresses and in the organization of scientific management societies in half a dozen countries. "In Russia, Germany and Czechoslovakia, scientific management is the guiding principle of the national economic system." A second international congress was held in Brussels in 1925, and the third international congress is to be held in Rome in September, 1927. We hope that those Americans who are planning European trips this summer will so shape their plans as to be able to participate in the congress at Rome. We are able to give assurance that these meetings are organized and conducted in Europe yield more of pleasure and profit than can be imagined before or explained after the experience.

THERE has also been organized at Geneva an International Management Institute whose functions will be on an international scale analogous to those of national management societies with which we are familiar. It has been established under tripart auspices: the International Labor Office, International Committee on International Management Congresses and the Twentieth Century Fund of Boston, all of which institutions are represented in its directorate. Mr. Paul Devinat, formerly of the International Labor Office, is its director; Percy S. Brown, formerly of the Corona Typewriter Co., and President of the Taylor Society, is in Geneva for a period as technical attache. The objects of the Institute specifically are (1) "To provide facilities for personal contact between specialists and persons practically interested in problems connected with the rational organization of production and distribution, by offering opportunities for effective collaboration and for the exchange of useful information; (2) To make arrangements as it sees fit for a regular exchange of information and documentary material between the various national specialist institutions; (3) To study, in so far as its resources permit, all the problems connected with the rational organization of production and distribution and to give its support to all activities of a general interest pursued by the national institutions."

Some Central Problems of Overhead Costs¹

An Inquiry Into Aspects of One of the Most Delicate Problems
of Business Policy

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Introduction

THE central problem of business is efficiency; and efficiency means getting the utmost amount of useful results out of the facilities used—the labor and materials, the physical plant, technical knowledge and commercial opportunities. It is essentially the getting of a maximum result in proportion to the expenditure of means. But the business measure of these quantities is financial, and efficiency in the business sense is gauged by a maximum surplus of income above cost. Thus value and cost become the well nigh universal measures of the useful results on the one hand and the expenditure of means on the other. They are the tests of whether a thing is worth doing; whether it is financially worth while to a business or economically worth while to the community at large. Are these tests accurate, as they are actually used? For present purposes I do not propose to raise the question whether the price a thing sells for is an accurate measure of its usefulness, or whether any other measure is possible. I shall confine myself to the other side of the question and ask whether costs, as they are commonly used, are an accurate measure of the expenditure of productive resources, for the purpose of solving the questions of industrial efficiency.

And one of the key points in such an inquiry is the proper handling of those costs which may be blanketed under the general term of "overhead." These are, in general terms, costs which are not specifically traceable to the doing or making of a particular thing. There are, however, different varieties of overhead costs, chiefly because there are different methods of tracing costs and assigning responsibility for them. Tracing may be by the methods of accounting, or by statistical methods of comparative analysis, or by the exercise of expert

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judgment, or by a combination of all three. All alike have their shortcomings: none gives a perfect picture. But even if it were possible to find the perfect measure of costs and to agree on it, there would still be an unavoidable dilemma. The whole business, or the whole productive process, must pay all the costs incurred or it does not meet the basic test of economic self support. But, since part of the costs are untraceable, any particular part of the business may be self-sustaining even though it does not contribute its full quota of overhead. The cost of the whole is greater than the separate costs of the parts, and the parts between them must make up the cost of the whole. But to say just how much any part of the business must contribute toward these untraced costs is arbitrary. The allocating of overhead costs contains some of the most delicate problems of business policy.

One of the most troublesome aspects of overhead costs consists in the fact that some of the costs do not vary much with variations in output. They are, in certain situations, at least, "constant," or relatively so. Whenever this is the case, it is a symptom of a more fundamental industrial fact. It means that some of the productive facilities for which expenses have been incurred have unused capacity. They can produce more than they are producing. The same railroad track can carry more trains, or the same building house more productive workers, or the same machine turn out more goods, or the same managing or selling staff can plan the production or carry out the sale of a larger output. And unused capacity is always "waste," even though sometimes it may be unavoidable. The efficiency of American industry is probably due in part to an unusually keen sense of unused capacities and an unusually urgent drive toward their utilization.

In pursuing this goal and endeavoring to utilize the unused capacities, the chief obstacle is repre-