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Industrial Hygiene Foundation

INDUSTRIAL HYGIENE FOUNDATION at Mellon Institute, Pittsburgh, Pennsylvania, has contributed greatly to the concept that the industrial health program is a management *must*. In the 18 years of its existence it has made its influence felt in hundreds of plants and in almost every type of industry. Workers employed by industry and commerce and their dependents in the United States in 1952 constituted more than 100 million, or approximately two-thirds of the total population. It is not inconceivable that the nation as a whole may have derived benefits from the technical advancement of industrial medicine and hygiene brought about through the Foundation's research, surveys, and allied activities.

The Foundation's Activities

INDUSTRIAL HYGIENE FOUNDATION, Mellon Institute, Pittsburgh, is a non-profit research association. Its purpose is the advancement of occupational health. It is concerned with human resources as well as improvement of working conditions. Its staff includes physicians, chemists, engineers, biochemists, and medical technicians—all specialists in health problems arising in industry. Through affiliation with it, companies and associations are entitled to the services of these specialists, to whom the technical facilities of Mellon Institute are available.

A typical morning mail may bring a request from a member company for plant tests to determine whether existing ventilation is adequately controlling the fume exposure in a specific operation. Another wants help in drawing up plans for construction of a new plant so that engineering controls can be incorporated. Still another needs measurements of the smoke emitted by its stacks. A fourth requests that a thorough audit be made of its medical policies, practices, facilities, and costs.

Special studies made by the Foundation for its member companies have passed the 600 mark. Included are some 400 extensive field surveys, and 60 on specific phases of industrial problems encountered in the plants. In addition the Foundation's specialists in engineering, medicine, chemistry and toxicology have made nearly 150 consultation visits throughout the country. Forty-two basic research studies have been conducted at the Foundation's laboratories, and more than 125 analytical studies have been made. A number of the projects carried out by the Foundation have been on an industry-wide basis, so that many companies not directly involved in the research have benefited from them. Two hundred eighteen companies and associations have taken advantage of the field services offered by the Foundation, many on a plant-wide basis. Many



Management and Medicine—registering for the Foundation's Seventeenth Annual Meeting, at Mellon Institute.

dustries of working together to achieve optimum industrial health has proved its value. While most of the work the Foundation does for individual companies is confidential, particularly operational procedures, much of its work concerns health practices and is fundamental in nature and therefore can be made available generally. Thus the Foundation can act as a clearing house for assembling and disseminating information, through both the accumulative experience of its able staff and the exchange of ideas of its member companies through the medium of the annual meeting and conferences. The Foundation provides a unifying force behind this endeavor in which management, labor, and the health professions join to bring progress in achieving healthful working conditions on a par with technical and scientific developments.

Annual Meeting and Conferences

EACH year at its annual meeting the Foundation brings together more than 600 top executives, physicians, attorneys, and industrial health specialists whose united efforts are developing ways of improving industrial health and human resources. A wealth of information is informally exchanged at the technical conferences by representatives from member companies on medicine, engineering, chemistry and toxicology, and the legal aspects of industrial health. Special sessions are held on selected subjects or for discussion of common problems in industrial groups.

Publications

TO KEEP the public and its membership informed, the Foundation issues a number of publications, including the monthly *Industrial Hygiene Digest*, which is sent to nearly 2,000 persons designated by the member companies. Technical papers by staff members and transactions of the annual meetings and conferences are also distributed. Nearly 300 such publications have been released to date.

How It Serves

THE FOUNDATION gives direct professional assistance to member companies in the study of industrial health problems and their solution; it assists companies in the development of health programs as an essential part of industrial organization; and it contributes to the technical advancement of industrial medicine and hygiene, through research, surveys and allied activities.

Typical of these services is a recently completed industrial hygiene survey. While excellent progress had already been made in providing a good working environment and protecting the health of the worker, the officials of the company envisioned additional benefits to be derived from a permanent full-fledged industrial hygiene department. Industrial Hygiene Foundation wa asked to lay the groundwork for broadening an enhancing the scope of the industrial hygien activities to provide even better working cond tions. A study was made of the working enviror ment, which furnished an inventory of nuisanc exposures and potential hazards. Evaluation were made on the basis of observations, and i formation on operational procedures and repr sentative data were obtained by measurement c chemical and physical environmental factors. R sults of the study are important from the shor term veiwpoint, but more significantly they hav a fundamental value in providing a foundatio on which the company is building a continuin and permanent program of environmental an medical study and evaluation.

Training Program

TRAINING of young men in specific fields of i dustrial hygiene is a service that is offere by the Foundation to all of its members. B working with the Foundation staff at its hea quarters at Mellon Institute the trainee gair practical experience. Didactic training, throug seminars, lectures and planned reading program supplements the research work. The trainee encouraged to maintain liaison with the Found tion after completion of the training prograr A similar valuable service is frequently utilize by a company to greatest benefit at the tir the Foundation is conducting a field survey b selecting a company man to work with the Fou dation staff. This man can then work towards continuing maintenance program.

Air Pollution Studies

AIR pollution investigations being sponsored fc the fourth consecutive year by the America Iron and Steel Institute include a trainee pr gram. Fourteen trainees have participated in th program to date. The men contribute to the r search work and at the same time are indoctr nated with an understanding of the nature of th air pollution problem. The research has include studies on the chemistry of sulfur dioxide oxid tion, the development of low-cost instrument for the measurement of air pollution intensity a ground level, and a project on the kinetic be havior of particulate matter in stack gases, i relation to the problem of measuring dust i such gases, that will ultimately embrace the pe formance of dust-and-fume collection equipmen

Instruments designed and constructed by th Foundation's engineering staff in connection wit the air pollution studies for the American Iro and Steel Institute have made possible simple and more reliable methods of air pollution samp ling techniques.

The I.S.I. Automatic Smoke Sampler has al