

The
ACTIVITIES and MEMBERS
of
INDUSTRIAL HYGIENE FOUNDATION



MELLON INSTITUTE, 4400 FIFTH AVENUE
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INDUSTRIAL HYGIENE FOUNDATION
*A Research Association of Industries for
Advancing Industrial Health and
Improving Working Conditions*

INDUSTRIAL HYGIENE FOUNDATION

INDUSTRIAL HYGIENE FOUNDATION is a nonprofit research association of industries for advancing occupational health, improving working conditions and bettering human relations.

The Foundation's staff includes physicians, chemists, engineers, industrial hygienists and medical technicians—all specialists in health problems arising in manufacturing and mining. Through affiliation with INDUSTRIAL HYGIENE FOUNDATION, companies are entitled to the services of these specialists, plus the technical facilities of Mellon Institute, the Foundation's headquarters.

FOUNDATION ACTIVITIES

The activities of I-H-F fall into three major categories:

- (1) To give direct professional assistance to member companies in the study and solution of industrial health problems.
- (2) To assist companies in the development of health and medical programs as essential parts of industrial organizations.
- (3) To contribute to the scientific advancement of industrial medicine and hygiene, through research, surveys and allied activities.

The broad scope of questions and problems that come to the Foundation for consideration is shown by the following tabulation of activities, classified under eight major headings: (1) medical, (2) chemistry, toxicology and industrial hygiene, (3) engineering, (4) air pollution, (5) noise, (6) research, (7) legal, and (8) general advancement of industrial health.

(1) Medical

- (a) General information and advice on organization and administrative practices in industrial health services, cost finding and analysis, plans for physical layouts, personnel needs and training, interdepartmental relations, systems of record keeping, directives for medical personnel and registered nurse service standards, etc.

- (b) Surveys of health problems, and comprehensive company-wide medical audits to appraise existing organizations and to recommend further needs.
- (c) Information on specific industrial medical problems and experience.

(2) Chemistry, Toxicology and Industrial Hygiene

- (a) Industrial hygiene field studies are conducted—appraisals of nature and magnitude of hazardous exposures and effectiveness of control measures. These may be on a plant basis or on an industry-wide scale.
- (b) Information on toxicity of chemical and physical agents, and on hazards of particular processes; preparation of bibliographies, literature searches, and securing of information from other sources, as, for example, companies having related problems.
- (c) Information and advice on sampling and analytical procedures, choice and availability of equipment.
- (d) Preliminary training of industrial hygiene personnel in laboratory procedures, sources of information, organization of laboratory, record keeping, etc.
- (e) Studies and development of new sampling and analytical methods and techniques.

(3) Engineering

- (a) Information on engineering practices in control of hazardous processes, and on design procedures, data and sources of information. Advice on control requirements for specific operations.
- (b) Specialized advice on new plant design, reconstruction in existing plants and changes in process to minimize or eliminate hazards.
- (c) Review of plans for ventilating systems, as to design, capacity, etc. Advice on special air-cleaning problems.
- (d) Advancement of engineering design practices and organization of engineering design programs; development of new data and design procedures for exhaust hoods. Assistance in

(4) Air Pollution

- (a) Advice on industrial air pollution problems—investigational procedures and criteria.
- (b) Development of methods, apparatus and techniques for collecting and measuring air pollutants.
- (c) Investigations of air pollution potentials of plants—measurement of stack dusts, fumes, gases and odors. Estimation of neighborhood effects.
- (d) Measurement and appraisal of pollution effects within adjoining community. Ascertaining sources of communal pollution.
- (e) Assistance in engineering measures for controlling excessive stack emissions. Measurement of stack dust particle size and its relation to appropriate dust collectors.

(5) Noise

- (a) Information on measurement of noise—sound level, frequency, magnetic tape recordings, availability of equipment, calibration and data record sheets.
- (b) Comprehensive physical measurement of noise levels in industrial plants.
- (c) Information on physiological response to noise—measurement of hearing impairment, permanent loss vs. fatigue aspects, treatment, susceptibility and placement.
- (d) Information on control measures—accumulation of industrial practices that have proved satisfactory.
- (e) Information on legal aspects—assembly of facts on laws and regulations relating to compensation for hearing loss.

(6) Research

- (a) Short- and long-term toxicity studies on new chemicals to indicate nature of problems which may be encountered in manufacture and use.
- (b) Research on nature and mechanism of action of hazardous dusts, fumes, vapors and gases, with special reference to actual conditions of plant exposure.
- (c) Basic studies in physiology, toxicology and biochemistry of physical and chemical agents, their mode of entrance into the body in relation to physical and chemical state in the atmosphere, and their subsequent toxic action in the body.

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