

FILE NAME: Industrial Hygiene Foundation (IHF)

DATE: 1954

DOC#: IHF014

DOCUMENT DESCRIPTION: Industrial Hygiene Digest Feb - Nov



FOUNDATION FACTS

Foundation Facts is a monthly news-letter issued to industrial concerns holding membership in Industrial Hygiene Foundation. The Foundation is a nonprofit association of industries for the advancement of healthful working conditions.

Volume 16

February, 1954

No. 2

IT'S YOURS FOR THE ASKING

"Little drops of water, little grains of sand"--that's what came to mind when we tabulated the "little" services performed by the Foundation for its members last year in addition to major survey work and research on specific industrial health problems. All the requests by mail and phone for bits of technical information and advice or for literature on specific subjects added up to much more than a puddle or an ant hill.

What is the effect of air pressure jets on the body? How can we apply radiant heat shields to our type of furnace? Tell us a safe way to clean our tanks. What is the permissible concentration of this new chemical? Is cancer caused by this substance, that one? What can we do about ventilation?--about welding fumes? What is the best treatment for cyanide poisoning? How should we go about setting up executive health examinations? What are the hazards relative to pyrophyllite?--mercury vapor? Metallizing? We need respirator protection against arsine. How can we guard against chromium poisoning? What is the physiologic action of barium titanate? What about the colorimetric determination of carbon monoxide in blood? How are aging problems going to affect us? What can we do about human engineering in the design and setup of our machinery?

Little problems? Certainly not. These are the questions that save lives and money. These are the requests that lead to major improvements, to safe work environments, to an awareness of what needs to be done. No problem is ever too small to merit our full attention.

No record was kept of telephone requests for information in emergency situations when a busy executive was puzzled about something and wanted to clear it up immediately. But scores of such calls were handled expertly by our staff and many hours spent on the telephone in technical and professional discussions.

Many of our local members "drop in" to talk over industrial health problems, and out-of-towners make it a point to put on their agendas a visit to the Foundation's headquarters when coming to Pittsburgh. This is the quickest way of getting to the roots of a problem.

More than 2,000 specific requests were received for reprints. These and hundreds of others which we felt would be helpful were dispatched.

If you are not already doing so, start helping yourself to the little drops and grains of information and advice we are eager to give you. This is your Foundation. Make it a part of your research staff.

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INDUSTRIAL HYGIENE FOUNDATION

4400 FIFTH AVENUE

PITTSBURGH 13, PA.



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Volume 16

March, 1954

No. 3

"Keeping up" with new developments and trends in the field of industrial health entails voracious reading. It means poring over as many as a hundred publications each month, to say nothing of the special reports, books, and legislative and legal proceedings that have to be studied if one is to have a broad and working knowledge to apply to the solution of industrial health problems.

A formidable task? It would be if you had to do it yourself. But we do it for you, and in such a way that your mind isn't cluttered up with the chaff. We sort and sift all the literature on the many phases of industrial hygiene, health and medicine. And we serve up to you whole kernels of valuable information, neatly packaged in fifteen categories for quick selection.

Of course we are talking about the Industrial Hygiene Digest. The magazine you are holding is your guide to needed reading materials. It makes it possible for you to discover in a few minutes pertinent material on industrial hygiene in the current literature, and it gives you a "meaty" summary of the contents of each article. An abstract is often all the information you require. If not, the reference to the original source enables you to obtain the complete paper.

Last year 1229 technical abstracts appeared in the Digest. Indicative of the current interest in a particular subject is the number of abstracts on that subject appearing in the Digest. Topping the list in 1953 was industrial dust, concerning which 86 abstracts were published covering the whole field of dust problems, including silicosis. Next highest was radiation, with 52 abstracts, followed by insecticides, with 49. Despite the fact that lead has been the subject of study for many years, it received more attention than any other single compound and scored 43 abstracts in the Digest, ranking just above the subject of analytical methods.

The Annual Index, mailed to members last month, is a quick reference to the most important papers on a particular subject. Work has begun on a decennial index which will cover more than 13,000 articles and will be an important addition to your library.

Its working companion, the Publication Source List, should be kept handy on the bookshelf, too. Recently brought up to date and distributed to members, the bulletin lists the names and addresses of some 700 journals, from all of which material has been abstracted for the Digest over the last five years. The introduction to the Source List gives helpful pointers for obtaining reprints, photostats, reports by government agencies, and foreign periodicals.

Industrial Hygiene Digest has proved itself to be a time and money saver for nearly 2,000 representatives of the Foundation's member companies and their associates. As one grateful recipient wrote us recently, his file copies are "pure gold." We hope that you, too, find them a treasure in helping you keep abreast of what is going on in the field of industrial hygiene.

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Volume 16

April, 1954

No. 4

DR. WALMER ON INTERNATIONAL PROGRAM

Dr. C. Richard Walmer, Managing Director of the Foundation, has been appointed a member of the Committee on Occupational Health Services, an advisory group to the Secretary General of the World Medical Association. The Committee will assist in drafting a program on international and occupational health. The specific aspect assigned to Dr. Walmer is Preventive Medicine, Environmental Hygiene.

FOUNDATION TRUSTEE AND COMMITTEEMAN HONORED

Dr. Anthony J. Lanza, a trustee of the Foundation, and Dr. Clarence D. Selby, a member of the Medical Committee, were presented citations for distinguished service in the field of industrial health by the American Medical Association. Dr. Lanza is director of the Institute of Industrial Medicine, New York University-Bellevue Medical Center. Dr. Selby is with the School of Public Health, University of Michigan. Both men have been outstanding leaders in the industrial health field and have done much to improve health conditions among workers.

FOUNDATION JOINT SPONSOR OF SEMINAR ON DUST DISEASES

A Seminar Series on Pulmonary Dust Diseases was held from March 1 through April 12 at the University of Pittsburgh Graduate School of Public Health, which jointly sponsored the lectures with Industrial Hygiene Foundation. Topics for the thirteen sessions were: Biologic Reaction to Dusts; Physics of Respirable Dusts; Dust as an Etiologic Agent; Permissible Dust--Review of Evidence; Sampling and Analysis; Histopathology of Lung Changes; Silicosis, the Clinical Entity; Siderosis; Coal Miners' Pneumoconiosis, English Studies (3 lectures); Definition of a Dust Disease Problem; Early Recognition and Control. The series was set up particularly for industrial physicians, radiologists and industrial hygienists and was well attended.

LEGAL COMMITTEE ENLARGED

The Legal Committee has added two new members to its roster. They are: Theodore Hetzler, Jr., of the National Association of Mutual Casualty Companies; and James J. Regan, of The Self-Insurers Association.

RESPIRABLE DUSTS CLASSIFICATION AVAILABLE

"A Classification of Respirable Dusts" prepared by Dr. O. A. Sander, Chairman of the Foundation's Medical Committee, has been reproduced as a membership service. Copies are available upon request.

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Volume 16

June, 1954

No. 6

NEW MEMBERS

The following companies have recently affiliated with the Foundation:

Georgia Kaolin Company
Phillips Petroleum Company
Western Electrochemical Company

DR. BRAUN HONORED FOR AUTHORSHIP

Dr. Braun has been elected a member of the American Medical Writers' Association, one of the principal objects of which is to help maintain and advance high standards of medical literature. The AMWA was formed in 1940 by a group of medical editors to help correct weaknesses in communications of the medical sciences. One of the important committees of the Association is the Educational Committee, which shall study ways and means of improving medical writing and journalism, especially cooperation with educational institutions, foundations and corporations."

TECHNICAL PAPERS PRESENTED

Papers recently presented by members of the Foundation's staff:

"Developments in the Sampling of Air-Borne Dust," given at the Symposium on Instrumentation for Industrial Hygiene at the University of Michigan on May 26 by Theodore Hatch, Research Adviser to the Foundation.

"The Magnitude of Errors in Stack Dust Sampling," read by W. C. L. Hemeon at the ASME Semi-Annual Meeting, held in Pittsburgh, June 20-24.

"A New Method for Stack Dust Sampling," presented by George F. Haines, Jr., at the ASME meeting.

REPRINTS AVAILABLE ON REQUEST

"A Low-Cost Sampler for Measurement of Low Concentration of Hydrogen Sulfide," by J. Deane Sensenbaugh and W. C. L. Hemeon, presented at a meeting of the East-Central section of the Air Pollution Control Association on September 24, 1953, and published in Air Repair, Vol. 4, No. 1, May 1954.

"Variables in Monthly Dust Fall Measurements," by J. Deane Sensenbaugh and W. C. L. Hemeon, read at the Fifty-sixth Annual Meeting of the American Society for Testing Materials, held from June 28 to July 3, 1953, and published in the Proceedings of the ASTM, Vol. 53, 1953.



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August, 1954

No. 8

WALMER ON CIVIL DEFENSE COMMITTEE

Dr. C. Richard Walmer, Managing Director of Industrial Hygiene Foundation, has been made a member of the advisory committee to study the civil defense problem in Pittsburgh and Allegheny County and to aid in civil defense activities.

LANZA MADE PROFESSOR EMERITUS

Dr. Anthony J. Lanza, a Trustee of the Foundation and a pioneer in the field of industrial medicine, has been made professor emeritus of New York University-- Bellevue Medical Center's Post-Graduate Medical School, from which he is retiring at the end of the academic year. A faculty member since 1947, he has served as professor and chairman of the department of industrial medicine and director of the Medical Center's Institute of Industrial Medicine. He will continue as consultant for the Institute. Lanza has been active in the field of industrial medicine and hygiene since 1906 and has contributed much to its advancement while serving in important government and industrial posts.

NEW PERSONNEL

Miss Ethel Tolker has been added to the staff of the Foundation's toxicology laboratory as research assistant. One of her main duties will be the preparation of tissue specimens for microscopic examination. Miss Tolker is a graduate of the University of Maryland and was formerly associated with St. Joseph's Hospital in Pittsburgh.

CHEMICAL-TOXICOLOGICAL COMMITTEE APPOINTMENTS

Two new members appointed to the Chemical-Toxicological Committee are: V. Hendricks, Head of the Industrial Hygiene Section, Esso Laboratories, Standard Development Company; and H. E. Stokinger, Chief Toxicologist, Division of Special Services, U. S. Public Health Service, Cincinnati.

NEW REPRINT AVAILABLE

Reprints are available upon request of a paper on "A New Apparatus for the Fractionation of Expired Air of Small Animals", by Paul E. Palm, Kenneth M. Cook, H. U. Brown, and Theodore Hatch, published in the Review of Scientific Instruments, Vol. 25, No. 6, 576-579, June, 1954.

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November, 1954

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Over 600 leaders in the industries and professions from all parts of the United States gathered at Mellon Institute, Pittsburgh, on November 17 and 18 to attend 9th Annual Meeting of Industrial Hygiene Foundation.

Potential industrial health hazards, as well as the major health problems now facing the manufactures, were taken up at the technical conferences on the first day. Attendance at these sessions were as follows:

Medical	169	Engineering	117
Chemical-Toxicological	120	Legal	100

Total attendance at the Conferences was 506, and representation at the General Meeting on the second day was 514.

The concern of industry over the health and well-being of its workers was reflected from the theme of the papers presented by representatives of many different industrial categories and by the spirited discussion which followed each session.

At the management session Clifford F. Hood, President of United States Steel Corporation, pointed out that "the physiologic health of our manpower is equally as important as the economic health of our nation." The fact that the greatest progress in industrial hygiene has been achieved in this nation he attributed to the leadership of industry and cited the various programs which exist within the great majority of steel companies as an example.

A varied program further emphasized the range of interest and activity in the industrial health field. The Foundation's membership was alerted to new industrial hazards which are an outgrowth of advancements in science, among them hazards from use of radioactive materials and of newer welding, burning, and soldering processes. Noise, obesity, rehabilitation, industrial wastes, health insurance programs, and defense in industry were among other topics. Recent developments in environmental measurements and control and in methods of analysis were presented. The ever-present aspects of industrial health were thoroughly treated also.

A number of excellent exhibits further illustrated activities in the field of industrial health and medicine. Noise in industry was the subject of informative panels by Meyer S. Fox and Dr. Paul J. Whitaker. Johns-Manville Corporation depicted industrial health and safety programs from employment to retirement. The Joint Committee on Industrial Ophthalmology of the American Medical Association and the American Academy of Ophthalmology and Otolaryngology exhibit on eyes in industry, sponsored by the Schering Corporation, was impressive. Pennsylvania Railroad's extensive statistics on employee follow-up of diagnoses made by its medical department. Industrial Hygiene Foundation's own exhibit on health in industry showed the tools for developing an industrial health program to the needs of management and the worker.

Text of "Foundation Facts" by C. Richard Walmer, M.D.
Managing Director, Industrial Hygiene Foundation, pre-
sented at the 18th Annual Meeting of Industrial Hygiene
Foundation, held at Mellon Institute, November 18, 1954.

The most illuminating measure of Industrial Hygiene Foundation's progress
growth is to be found right here in this auditorium. The increasing attendance
Annual Meeting is evidence of the enthusiastic support you and the companies
represent are giving to the Foundation. With such interest, it was inevitable
the Foundation would achieve much in its first 20 years toward making better
environmental health a reality. With a continuation of this interest, we look for-
confidently to a still great degree of success.

We are pleased to welcome eight new member companies to this year's
meeting. They are:

Asbestos Corporation Limited
Commonwealth Sanitation Company
G. H. Packwood Manufacturing Company
Georgia Kaolin Company
Phillips Petroleum Company
Radio Corporation of America
United States Asbestos Division of
Raybestos-Manhattan, Inc.
Western Electrochemical Company

This brings the Foundation's membership to 365 companies having a total
than three million employees. Special subscribers to the monthly Digest
publications now include 128 governmental health agencies and other
and education institutions. Among them are 30 such organizations in 14
countries.

Almost every industrial category is represented on the Foundation's mem-
ber roster. The staff of the Foundation is proud to be the medium through which
these diversified industries can unite their efforts in protecting the health of
workers and their consumers.

Helping immeasurably to make this possible through the years has been
the interest and support of Mellon Institute. We owe a special vote of thanks to
Edward R. Weidlein, President of Mellon Institute, and to Dr. W. A. Hamor,
Director of Research, for their encouragement and assistance.

The members of the Foundation's Board of Trustees and of the technical
staff have also contributed greatly to its success and we want to express our
appreciation to them also at this time.

During the past year 25 environmental surveys or medical audits took
place of the Foundation's staff into 81 plants. In many cases there were
problems such as dust and fume exposures, radiant heat, and noise.

The potential hazard of these environmental contaminants was determined and controls were recommended. Many of the surveys were on a broader basis, reflecting the sincere interest of management in the positive aspects of health maintenance. In many cases the recommendations we were able to make have become the keystone of a successful program for developing and maintaining the company's "human resources."

Such studies involving both environmental and medical phases, were completed for a number of companies this year. In one company, strict medical supervision and continuous education of employees in conjunction with control measures were particularly essential because of the nature of the hazard. After exposures had been evaluated and control measures recommended, a sound medical program was outlined by the Foundation's medical staff, including a physical examination program especially for that particular industry. This also served as a final evaluation of the effectiveness of the engineering measures.

Another medical study called for recommendations of a long-range program, a plan for the progressive development of existing facilities through continuous substitution and supplementation was tailored to the specific needs of the company.

A system-wide industrial hygiene survey was made for a transportation company to establish an adequate positive health protection program. This included the training of personnel from the company in carrying on these activities.

The groundwork was laid this year for planning and organizing a formal continuing program for health maintenance of workers in all the plants of an industrial association's member companies. An environmental survey is being conducted in each plant which will provide an inventory of the magnitude of the exposures during various types of operations and permit evaluation of the exposures in terms of potential health hazards. The findings will also serve as a guide for recommendations of control measures and will be a useful adjunct in developing a coordinated medical program.

In addition to the extensive field work carried on in the plants of member companies, the Foundation has been engaged in a number of basic research programs for associations of industries. Two of these involve major air pollution investigations, one for an association of steel companies and the other for a group of petroleum industries.

A third industrial group has commissioned a three-year program of toxicological research at the Foundation's toxicological laboratory, and investigations of the effects of dust on normal lungs and on the development of pulmonary tuberculosis are underway.

The evaluation of pulmonary response to a variety of materials and products is being carried on in the toxicology laboratory for a number of other companies.

Along with an increase in the work carried on by the Foundation went an increase in Budget Expenditures to \$253,000. We expect to end the year with a small excess of Receipts over Expenditures. Our total Cash and Securities amount to nearly \$175,000, and we expect to continue paying our way as we go so that this reserve can be used for basic research.

A major expenditure each year, but one that we feel is merited, is for the publication of the monthly Digest and the Transactions of the annual meetings and conferences, and the reprinting of technical papers by Foundation staff members, of which there were 23 so far this year, all of which are supplied to members.

Two important compilations concerning noise in industry have been completed and are now being reproduced for distribution to the membership. One is a legal analysis of legislation on noise in industry enacted to this time. The other is an annotated bibliography which covers more than 3,000 literature citations on various aspects of noise, including instruments and techniques for measuring noise and hearing loss, effects of noise, and reduction and control of it.

The activities of the staff during the year have included participation in numerous scientific programs and meetings.

Two noteworthy accomplishments were the authorship of two technical volumes. Professor Philip Drinker, a member of the Foundation's Board, and Theodore F. Hatch, Research Adviser of the Foundation, have completed revision and expansion of their book on "Industrial Dusts." The new, up-to-date edition has just been released by McGraw-Hill.

An impressive 450-page volume on "Plant and Process Ventilation," by Mr. W.C.L. Hemeon, Engineering Director of the Foundation, will be released by Industrial Press in January, 1955.

We hope that in the coming year, more of you will call upon the Foundation for assistance in the solution of your specific industrial health problems. The Foundation's staff has a vast fund of information and experience behind it, and as members of the Foundation you are entitled to consider these specialists as part of your own research personnel. Don't wait until a major industrial health problem confronts you. Take advantage of the little services we can perform for you as well. Communicate with us when you need some bit of technical information or advice, or visit our offices and laboratories to consult with our staff.

This is your Foundation, brought into existence by you and sustained by you. We welcome the opportunity to be of service to you.

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