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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 18

January, 1956

No. 1

NEW MEMBERS OF I-H-F

The Foundation starts the year with four new member companies on its roster. They are:

Detroit Steel Products Company
Dow Corning Corporation
Pennsylvania Manufacturers' Association
Casualty Insurance Company
Standard Oil Company of Indiana

DR. BRAUN PARTICIPATES IN PANEL DISCUSSIONS

Dr. Daniel C. Braun, Medical Director of the Foundation, participated in a program on Absence from Work Due to Nonoccupational Illness and Injury, which was a part of the 16th Annual Congress of Industrial Health held in Detroit on January 23 and 24. The program had special reference to integration between industrial physicians and private practitioners and was arranged by the Committee on Medical Care for Industrial Workers, which is a joint committee of the Council on Medical Service and the Council on Industrial Health of the American Medical Association. Dr. Braun's specific topic was "How Can We Make Better Use of Records?"

Dr. Braun also participated in the Seventh Annual Ann Arbor Discussion on Occupational Health held at the University of Michigan on January 20 and 21.

SPECIAL SERVICES TO MEMBERS

There was a considerable increase in the number of requests for reprints and for other information on published literature during 1955. Five thousand pieces of technical literature were mailed upon request, representing 94 different reprints from the Foundation's stock of such material available to members. This did not include literature on technical aspects of industrial health which were routinely distributed to the membership, as well as the monthly Industrial Hygiene Digest and the Transactions of the annual meeting.

More members took advantage of the technical advisory service of the Foundation's staff as well. "Consultation" by correspondence on specific industrial health problems encountered by member companies was supplied in 120 instances. Inquiries sought answers to the toxicity of a wide variety of chemicals and other compounds, hazards encountered in their use, and methods of controlling those hazards; general information on air pollution, as well as data on legislation and on dust sampling equipment and methods; effects of radiation and protection against it; dermatitis from specific substances; medical programs and health maintenance techniques; mental health in industry; and a host of other subjects.

DECENNIAL INDEX OF DIGEST

To increase the value of Industrial Hygiene Digest as a reference tool for those in the field of industrial health, a cumulative index on the subject matter abstracted in the Digest for the years 1945-1954 was prepared, supplementing the yearly indexes for that period. Copies have been distributed to all representatives of member companies who regularly receive the Digest.

1452	Analgesic formulation, clinical trial	464	Atomic energy (cont.)	
1470	Aniline		notes for medical officers (bk. rev.)	173
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131	exposure and Heinz bodies	354	plants	
			safe design	1321
54	Anthracosilicosis		site selection	1320
	nontuberculous cavitation	366	power plant, safe design	384
	and serum proteins	79	safety record	791
			uses	239
323	Anthrax carriers	968	Atomic explosions, warfare	
			burns, compromise therapy	116
1103	Antimony mines, toxicological study	600	fallout	
806	Antiseptics		bibliography	397
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			effects on foods	532, 658, 1172
66	Anxiety, signs and symptoms	833	extent and distribution	252, 660
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			near explosions	903
732	Arsenic		radiostrontium (see also Strontium)	393
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0, 631,	spraying and bronchial cancer	601	Attendance motivations	279
0, 1285			(see also Absenteeism)	
1131	Arsenicals, dermatosis	35	Audiogram (see also Hearing loss)	
			use in industry	766
1300	Arsine poisoning	982	Audiometer(s) (see also Hearing tests)	
328	Artificial respiration (see also Resuscitation)		automatic	230, 769
1107	while sitting	324	group, single descent	880
			and uses	767
1572	Asbestos and lung tumors	506	Automation	
			bibliography	277
511	Asbestosis		and disabled workers	1200
731	with pleural calcification	761	health and safety aspects	175
	respiratory tests	1011	industrial problems	425
cine	Ascorbic acid		Autometer for sulfur dioxide determination	538
719	effect on work in heat	103	Automobile	
55	Asphyxia, hazard and treatment	930, 931	crash injuries, medical aspects	439
			exhaust (see Exhaust, automobile)	
347	Asthma		Aviation medicine, training	1104
1268	bakers' and millers'	1428	Back injuries (see also Low back)	
973	in coal miners	638	causes and prevention	583
			survey	438
203	Athlete's foot (see Fungus infections)		Bacteria	
64	Atmospheric		airborne, removal, glass filters	1199
	diffusion and turbulence, studies	1049	use in aerosol studies	1038
744	pollution (bk. rev.) (see also Air Pollution)	947	Bacterial aerosols, in rendering plant	561
	turbulence, small scale	422	Bakers' asthma	1428
otion 119	Atomic age (see also Radiation)		BAL (British antilewisite)	
	role of physician	108	action in poisoning	1290
726	Atomic energy (see also Nuclear reactors)		in mercury poisoning	1120
727	industry	530	treatment, mercury poisoning	841
1197	medical problems	898		
44	sanitation	144		
	ventilation			
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Volume 18

May, 1956

No. 5

COMMITTEE APPOINTMENTS OF STAFF

Dr. C. Richard Walmer and Dr. H. H. Schrenk have been named to a committee of five to advise the Board of County Commissioners of Allegheny County on what steps should be taken to provide adequate ventilation in the Liberty Tunnels. Others on the committee are Mr. Earle Shoub of the U. S. Bureau of Mines, Dr. William P. Yant of Mine Safety Appliances Company, and Dr. Rollo Miller of People's Natural Gas Company.

Dr. Daniel C. Braun has accepted appointment as a member of the Committee on Standards of the Industrial Medical Association for this year.

"PRODUCTS" OF INDUSTRIAL HYGIENE FOUNDATION

.... Air Pollution Studies

The problems of air pollution are complex and broad in scope. Their solutions involve the knowledge of the sources and properties of the pollutants, their behavior in the atmosphere, and the ability to identify and determine quantitatively each constituent. Information on the concentration of contaminants must be correlated with knowledge of the effects produced by various levels of pollution and with meteorological conditions. Only when all these factors are studied in relationship to one another can a proper attack on the problem be planned.

This is the approach to the evaluation and the elimination of air pollution which Industrial Hygiene Foundation takes in carrying out its air pollution studies at the plants of its member companies. Studies presently under investigation fall into five main categories:

1. Studies to obtain information on the level of atmospheric pollution before a plant is built in order to establish a base line for comparison after the plant is put in operation. The company will thus be able to determine whether or not its operations are adding significantly to the air pollution of the area, and the degree of improvement required.
2. Studies to evaluate existing conditions in the community surrounding a plant and the extent to which that concern is contributing to the pollution.
3. Seasonal monitoring around the plant to provide a record of the concentration of a particular atmospheric contaminant, enabling a company to appraise its responsibilities with regard to the air-pollution problem in its area.
4. Stack sampling to determine amount of contaminants discharged.
5. Special research problems.

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August, 1956

No. 8

ANNUAL MEETING

Final arrangements for the 21st Annual Meeting of the Foundation are nearing completion. Invitations and preliminary programs will be mailed at a later date, so keep the dates—November 14 and 15—open.

The Medical, Legal, Engineering, and Chemical-Toxicological Conferences will be held the morning of the first day, and a Joint Technical Conference will bring all these groups together in the afternoon for a panel discussion on "Health Problems Involved in the Manufacture, Sale and Use of Toxic Materials."

Included in the Medical Conference will be papers on the legal aspects of medical practice and on health counseling.

The Legal Conference will present a legislative review of the developments in workmen's compensation; a summary analysis of the New Jersey Air Pollution Law; and a discussion of the medical, engineering, insurance and legal aspects of problems incident to the industrial use of atomic energy.

The Engineering Conference will take up various phases of the problem of industrial air cleaning, including the Public Health Service's engineering program on air pollution control; research and development of equipment for cleaning of high temperature gases; and spread of particulate contamination from stacks. There will also be a question and answer period on practical industrial air cleaning problems.

The Chemical-Toxicological Conference will take up the subjects of pneumoconiosis, occupational carcinogens, and analytical procedures.

The management session on the second day, the General Meeting, is designed to open new channels of communication between management and technical personnel in matters of industrial health. In addition to a paper on this specific problem, subjects to be discussed are trends in welfare funds, epidemiology in industrial health, automation, and systematic attention to health in operations research.

DR. SCHRENK SPEAKS ON INDUSTRIAL HYGIENE

Dr. Schrenk addressed the staff of Crucible Steel Company of America's Research and Development Laboratory in Pittsburgh on July 27. His subject was industrial hygiene, with particular reference to toxicology.

NEW REPRINTS

Copies are available on request of a paper on "Evaluating Industrial Medical Departments" by Dr. Daniel C. Braun, Medical Director of the Foundation, reprinted from the Transactions of Industrial Hygiene Foundation's 20th Annual Meeting.

A general mailing has been made to all members of the Foundation of a reprint entitled "Importance of Biological Research in Industrial Medicine".

Copies of the Industrial Hygiene Column by Dr. H. H. Schrenk, Research Director of the Foundation, reprinted from the April 1956 issue of Industrial and Engineering Chemistry, are also available on request. The subject for this column is "Compilation of toxicity data provides quick reference sources. Toxicity of fumigant mixtures."



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Volume 18

November, 1956

No. 11

ANDREW FLETCHER TO BE AWARDED CHARLES F. RAND GOLD MEDAL



Andrew Fletcher, President of St. Joseph Lead Company, and Chairman of the Board of Trustees of Industrial Hygiene Foundation, has been selected by the Board of Directors of the American Institute of Mining, Metallurgical and Petroleum Engineers as the recipient of the 1957 Charles F. Rand Gold Medal Award at the Annual Banquet of the Institute on Wednesday, February 27, 1957, in New Orleans.

The Charles F. Rand Gold Medal Award was initiated in 1940 to recognize distinguished achievement in mining administration. In past years the recipients of this medal were: Mr. Robert C. Stanley, Chairman, International Nickel Co.; Mr. Cornelius F. Kelly, Chairman, Anaconda Co.; Mr. George M. Humphrey, Chairman, M. A. Hanna Co.; Mr. Eugene G. Grace, Chairman, Bethlehem Steel Co.; Mr. Harry C. Wiess, Chairman, Humble Oil & Refining Co.; Mr.

Francis H. Brownell, Chairman, American Smelting & Refining Co.; Mr. James D. Francis, Chairman, Island Creek Coal Co.; Mr. Eugene Holman, Chairman, Standard Oil Co. of N. J.; Mr. Wilfred Sykes, President, Inland Steel Co.; Mr. H. DeWitt Smith, Vice President, Newmont Mining Co.

The 1957 citation reads as follows: Andrew Fletcher

"For distinguished administration in nonferrous mining and metallurgical enterprises; for his inspiring leadership in the mineral industry; and for his outstanding contributions toward furthering the professional interests of those engaged in the mineral industries."

Mr. Fletcher prepared for college at the Hill School, Pottstown, Pa., and was graduated from the Sheffield Scientific School, Yale University in 1916. After a year in the Harlan & Hollingsworth shipyard at Wilmington, Del. as a mechanic, he went to Baltimore, Md. as a foreman for the Baltimore Dry Dock Co. In 1918 he became Secretary of the W. & A. Fletcher Co., Hoboken, N. J., and in 1924 was in direct charge of the business until the shipyard was sold to the United Dry Docks, Inc. In 1929 he gave up his connection with the shipbuilding industry to become Vice President and Treasurer of the St. Joseph Lead Co.

During the period 1929-1940 Mr. Fletcher, in addition to his activities in mining, was also actively connected with public utilities, as he was a Director of the Engineers Public Service, Gulf States Utilities, El Paso Electric and Western Public Service. With the increasing of his responsibilities with the St. Joseph Lead Co., he gave up all connection with public utilities. He became Executive Vice President of the St. Joseph Lead Co. in 1946 and President in 1947.

Mr. Fletcher is Past President of the American Institute of Mining, Metallurgical and Petroleum Engineers, Chairman of the Board of Trustees of Industrial Hygiene Foundation of America, Vice President and Treasurer of the American Mining Congress and President of Lead Industries Association. He is a Director and Trustee of the following organizations: St. Joseph Lead Co., Mine La Motte Corp., Bonne Terre Farming and Cattle Co., Missouri-Illinois Railroad Co., United Engineering Trustees Inc., Engineering Foundation, Societe des Mines de Zellidja, American Zinc Institute and American Bureau of Metal Statistics. Mr. Fletcher is also a member of the following associations: Society of Naval Architects and Marine Engineers, Yale Engineering Association, Holland Lodge No. 8, F. and A. M., Mining and Metallurgical Society, Institute of Metals (London), Australasian Institute of Mining and Metallurgy (Melbourne).

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21ST ANNUAL MEETING OF INDUSTRIAL HYGIENE FOUNDATION

The 21st Annual Meeting of Industrial Hygiene Foundation, held at Mellon Institute, Pittsburgh, on November 14 and 15, was attended by 650 representatives of industrial management and the health professions.

Attendance at the technical conferences on the first day totaled 522. In the morning the guests separated into specialized groups to attend Medical; Legal, Chemical-Toxicological and Engineering Conferences. In the afternoon they assembled together to participate in a Joint Technical Conference at which health problems involved in the manufacture, sale, and use of toxic materials were discussed by a panel composed of representatives of management, and of the medical, engineering, toxicological, legal and insurance professions. Despite the large attendance at this session, discussion from the floor was lively. The resulting interchange of ideas and information fulfilled one of the primary aims of the Foundation's meetings, which is the promotion of higher standards of health maintenance in industry by providing an opportunity to exchange valuable information on the year's achievements, trends and needs in the industrial health field.

The Management Conference on the second day also brought the majority of the technical conference participants, along with a number of new registrants, together for a program designed to open new channels of communication between management and technical personnel in matters of industrial health. Total attendance at this session was 503.

Several excellent exhibits pertinent to industrial health activities were on display. Contributors were: Boeing Airplane Company; General Electric Company; Mine Safety Appliances Company; Sperry-Gyroscope Company; the American Medical Association's Council on Industrial Health, and the United States Department of Commerce. Also displayed were publications of the Foundation and photomicrographs illustrating research on industrial dust diseases carried on in the Foundation's biological laboratory.

I-H-F

21st Annual Meeting
Industrial Hygiene Foundation
Mellon Institute
Pittsburgh, Pennsylvania
November 14-15, 1956

FOUNDATION FACTS

C. Richard Walmer, M. D.
Managing Director, Industrial Hygiene Foundation

It is indeed a pleasure to have so many of the Foundation's member companies represented here today. The charter members of Industrial Hygiene Foundation visualized it as a unifying agent, aiding in the advancement of occupational health on an industry-wide front, and I think your presence here today justifies their belief that industry needed and wanted such an organization. The joint effort of companies to foster health of workmen has been an effective method of dealing with socio-economic problems relating to industrial health.

Of equal importance in advancing industrial health are the individual efforts of companies to achieve optimum health maintenance in their respective plants. I think the member companies of Industrial Hygiene Foundation are leaders in this respect.

We want at this time to welcome seventeen new members to this year's meeting. They are:

- Allied Chemical & Dye Corporation
- AMP Incorporated
- Association of American Railroads
- Association of American Soap and Glycerine Producers, Inc.
- Boeing Airplane Company
- The Cleveland Graphite Bronze Company
- Dow Corning Corporation
- Equitable Life Assurance Society of the United States
- Farrell-Cheek Steel Company
- Jesse S. Morie & Son, Inc.
- Minneapolis-Honeywell Regulator Company
- Pennsylvania Manufacturers' Association
- Casualty Insurance Company
- Sauereisen Cements Company
- Sperry Gyroscope Company
- Standard Oil Company of Indiana
- Wald Industries Inc.
- Western Maryland Railway

C. Richard Walmer

We hope that all of you will consider the Foundation as part of your own technical staff, and we look forward to being of assistance to you.

During the past year the Foundation's staff completed a number of important field and research projects. Environmental surveys were made for member companies to evaluate the degree of exposures to dusts and other atmospheric contaminants and to devise control measures. Air pollution surveys, both at manufacturing operations and in the outdoor area surrounding industrial plants, were carried out, and a study of the air pollution problems of a large city was made.

The toxicological laboratory completed a two-year investigation of the pulmonary effects of synthetic silicate materials. Biological effects of the new materials were studied as a basis for determining possible hazards and the extent and type of control measures necessary. A three-year program on the effects of silicon carbide dust on normal lungs and on the evolution of pulmonary tuberculosis is nearing completion. Other projects in this laboratory included range-finding and chronic toxicity studies of various substances.

A major epidemiological study of industrial dermatitis was completed by the medical staff. Another on industrial pulmonary diseases is under way. These epidemiological studies were requested by industrial groups, thus making available a statistically significant number of cases for study.

As you know, the Foundation functions as a technical information center as well. Specific requests for information were handled by the technical staff by telephone and correspondence throughout the year. In addition, the Industrial Hygiene Digest each year carries over 1400 abstracts of the world's literature on all aspects of industrial health. Numerous reprints and bulletins were made available and announced in the Digest, and the Transactions of the annual meeting were published and distributed.

We want to thank all of the members of the Board of Trustees and the various technical committees who serve the Foundation—and you as members—so well. All have a keen interest in improving health maintenance in industry and their efforts are valuable contributions towards this goal. The terms of a number of the committeemen have expired and new appointments have been made to fill the vacancies.

Appointed to the Research Advisory Council were Dr. E. H. Carleton, Inland Steel Company; and Dr. R. E. Eckardt, Esso Research & Engineering Company.

Three new appointees to the Preventive Engineering Committee are: Mr. A. V. Bender, National Lead Company; Dr. J. V. Grimaldi, General Electric Company; and Dr. E. G. Meiter, Employers Mutuals of Wausau.

Additions to the Legal Committee are Mr. H. M. Jackson, Johns-Manville Corporation; and Mr. Douglas Soutar, American Smelting & Refining Company.

Richard Walmer -

The Chemical-Toxicological Committee added three new members: Mr. James F. Morgan, Pennsylvania Railroad Company; Mr. L. E. Renes, Phillips Petroleum Company; and Mr. E. D. Sallee of American Can Company.

New members of the Air-Pollution Control Committee are: Mr. Harry C. Altman of the Air Pollution Control Association; Dr. C. A. Bishop of United States Steel Corporation; Mr. Lester V. Cralley, Aluminum Company of America; and Dr. G. M. Saunders of Socony Mobil Oil Company, Inc.

We look forward to working with all of these capable men and want to thank again those who have worked so diligently and taken such an interest in the Foundation's activities during the past term.

We want to acknowledge with gratitude the interest and support of the Foundation's Executive Staff, and particularly of Dr. William A. Hamor, who in his capacity as Advisor to the Foundation, has devoted a great deal of time and energy to the Foundation's activities. We are fortunate in having the wise counsel of these outstanding scientists and administrators and to have their use of the best facilities and equipment obtainable. A recent expansion has been the new Department of Radiation Research, for which a new building has been specially constructed.

Again may I say that we are happy to have you here with us today, and that you are finding this Twenty-first Annual Meeting both interesting and profitable.



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Volume 18

December, 1956

No. 12

NEW MEMBERS OF I-H-F

At the recent Annual Meeting of the Foundation, the three newest members of I-H-F were welcomed into the organization. They are:

Association of American Railroads
Association of American Soap
and Glycerine Producers, Inc.
Minneapolis-Honeywell Regulator Company

APPOINTMENT TO I-H-F BOARD OF TRUSTEES

Mr. George A. Jacoby, Director of Personnel Relations, General Motors Corporation, was elected to the Board of Trustees of Industrial Hygiene Foundation at the membership meeting in November.

CUMMINGS MEMORIAL LECTURER NAMED

Dr. H. H. Schrenk, Research Director of Industrial Hygiene Foundation, has been selected by the Board of Directors of the American Industrial Hygiene Association, upon the recommendation of the Awards Committee, as the Donald E. Cummings Memorial Award recipient and lecturer for 1956-57.

TWO CHAIRMANSHIP POSTS FILLED BY I-H-F STAFF MEMBERS

Dr. H. H. Schrenk was appointed Chairman of the ASA Z-37 Committee at a meeting held in New York on December 6. This committee is charged with establishing acceptable concentrations of atmospheric contaminants in the atmosphere of work-places.

Dr. Daniel C. Braun, Medical Director of the Foundation, has been appointed Chairman of the Commission on Industrial Health and Hygiene of the Medical Society of the State of Pennsylvania.

REPRINTS AVAILABLE ON REQUEST

Reprints of technical literature by I-H-F staff members now available on request are as follows:

"Silicosis: The Topographic Relationship of Mineral Deposits to Histologic Structures." Paul Gross, M.D., Marian L. Westrick, Ph.D., and James M. McNerney, B.S. Reprinted from The American Journal of Pathology, 1956, Vol. XXXII, No. 4, pp. 739-775.

"Action of Detergents in White Mineral Oil Upon Rabbit Corneal Epithelium." C. William Weissner, M.D., Marian L. Westrick, Ph.D., and H. H. Schrenk, Ph.D. Reprinted from the A.M.A. Archives of Industrial Health, September 1956, Vol. 14, pp. 265-268.

THE STAFF OF INDUSTRIAL HYGIENE FOUNDATION EXTENDS ITS HEARTIEST WISHES
FOR A HAPPY HOLIDAY SEASON AND FOR A PROSPEROUS AND HEALTHFUL NEW YEAR.

Aroclors, vapor toxicity	1022	Atomic radiation (see Radiation)	
Aromatic hydrocarbons (see Hydrocarbons)		Audiometer, automatic	386, 915
Arsenic in cigarettes and air cancer problem	1420	Audiometric tests (see also Hearing tests) guide	1335
Arsenic trioxide safety data sheet	1283	Automation	
Arsine poisoning cases	1284	challenge to management	829
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		medical aspects	856
		and worker welfare	730
Arthritis		Automotive exhaust	
from pneumatic tools, absence	260	analysis	821
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Artificial respiration (see also Resuscitation) apparatus testing	18	unburned fuel, determination	822
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Asbestosis		action in uranium poisoning	493
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Atomic bomb, atomic warfare		and alkyl derivatives, toxicity	1431
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radiation		and sterility	769
effect on food	1474	hazards	1301
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Atomic energy		skin absorption	
application	539	Benzene hexachloride	
industry		air and food contamination	1311
and community health	925	effect on blood clotting	1312
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health and safety	1206	by animals	234, 235
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