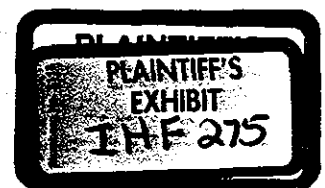




1977 ANNUAL REPORT



01000404

President
Daniel C. Braun, M.D.

Director of Office Services
Sally Jo Carlisle

Director of Information Services
Jane F. Brislin, M.L.S.

Director of Engineering Services
Michael Brian, M.S.

Director of Laboratory Services
Marianne Kaschak, B.S.

Director of Safety and Training
George H. Reilly, A.B.

Director of Pathology Research
Paul Gross, M.D.

Supervisor, Analytical Laboratory
David R. Fussaro, Ph.D.

Industrial Hygiene Engineer/
Health Physicist
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Analytical Technologist
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Industrial Hygienist
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Senior Research Technologist
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Assistant Librarian
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Research Technologist
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Conrad D. Volz, Jr.

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Dolores F. Pedicone

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Publications Typist
Elizabeth Andolina

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PRESIDENT'S MESSAGE

In my report to the Board on December 14, 1977, I reviewed our activities for the year to that date and I projected our plans and areas of increased emphasis for 1978.

In this final report on IHF's performance for 1977, I must first make the point that a steadily decreasing cash-flow deficit is some indication of progress. On the other hand, if this had not been accompanied by very real increases in our staff strength, and in our office and professional equipment, no one could be completely satisfied on that score alone. In 1975, our cash deficit was over \$25,000, and in 1976, it was nearly \$24,000. For 1977, we showed a deficit of a little over \$7,000, and this included \$2,000 which was uncovered as still owing the government on contracts the Foundation had prior to 1972, for which the accounting records left much to be desired.

Over this period, we have built up our staff by the addition of an assistant librarian, two industrial hygiene engineers, an analytical chemist, a toxicology technician, a print shop operator, and a part-time literature searcher. In addition, we have gradually added to our field and laboratory instrumentation, and our office machinery, until at present, we are quite well equipped.

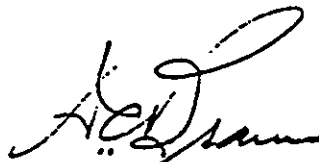
In spite of losses in both laboratories, 1977 operating expense was only \$5,394 over income.

Although meetings and courses recorded a small loss, income from this area did very well as compared to budget. Some extraordinary costs associated with the Chicago course unfortunately forced expenses considerably over budget. Actually, the loss in this area relates almost exactly to the expenses incurred in preparing the Management Course which had to be cancelled because of the poor response.

Another measure of performance for any given year is the gain or loss in the number of members and the resultant change in dues. In this area, we did not do well in 1977. We acquired 14 new members, and lost 13. However, among those we lost were several in group 1 and 2, and the net loss in dues was \$7,000.

The increasing acceptance of our laboratory services, survey work, courses, and administrative projects are, in my view, very healthy signs, and confirm my impression that we have reached a turning point in the fortunes of IHF. Of even greater significance, is the improved position we now enjoy with respect to the staff and the equipment necessary to render our services accurately, and in a timely manner.

As to the year ahead, we have every reason to believe we can add to the membership and increase our training activities. Literature searches, toxicology studies and project work are all becoming more active and if, as the Executive Committee proposed, the Trustees' Fund can be re-activated, we should be able to obtain some much needed maintenance to our building and some additional laboratory equipment.



Daniel C. Braun, M. D.
President

01000406

OFFICE SERVICES

Membership

Any organization with a legitimate interest in industrial health and hygiene or environmental and occupational health may apply for membership in IHF. The Board of Trustees considers all applications, and an applicant becomes a member upon a favorable vote of a majority of the Board.

At the beginning of the year, IHF's membership totaled 149 companies, associations and special groups, and 14 new members joined during the year. However, the loss of 13 resulted in a negligible change in the total number.

Responsibility for expanding membership is shared by the staff, the Board of Trustees, and each IHF member. Dues are scaled to the total number of employees. Member companies receive special discounts on publications, reduced registration fees to all meetings and courses, and special rates on analytical services. Savings that result can actually exceed the cost of membership.

IHF serves as a medium for voluntary action by member companies, large or small, individually or collectively, and as a center to which they can turn for assistance with all health-related problems.

New Equipment and Furnishings

A new secretarial desk and chair, an IBM Memory typewriter, and a checkwriter for the accounting department were acquired during the year.

The donation of a fine wood executive desk from PPG Industries was gratefully received by the Foundation, and an executive chair and credenza were purchased to improve the office of the Director of Office Services.

ENGINEERING AND OCCUPATIONAL MEDICINE SERVICES

A plant survey provides management with an objective, detailed evaluation of the industrial hygiene and/or safety aspects of its facilities with particular reference to the provisions of the OSHA Act. During the year 35 such surveys were carried out for members. In addition, five combined engineering and medical surveys were conducted.

A medical survey provides a current review of the occupational health aspects of a company's plant or corporate facilities. Six such surveys were carried out for members during the year, one of which is on a continuing basis for consultation on employee health matters.

Surveys included sampling for asbestos, organic vapors, solvents, and silica as well as noise levels and the evaluation of waste disposal. In addition, the industrial hygienists worked with the manufacturers of a special filtering device to evaluate the efficiency of filters used in connection with compressors to assure Type 1, Grade D quality air.

A remote oxygen sensor was added to the engineering equipment as was a CO calibration kit.

INFORMATION SERVICES

Responsible for answering inquiries, conducting literature searches and publishing the Industrial Hygiene Digest as well as the Memos and proceedings, this department has carried out work in all these areas in 1977. Over 1400 abstracts were published in the monthly Industrial Hygiene Digest. Circulation of the Digest is over 1,850, seventy percent distributed to members as a part of their dues.

The proceedings of the Symposium on Selenium-Tellurium in the Environment were published and three issues of Memos to Members were printed. The Memos contained news articles on occupational safety and health as well as items of interest on IHF's activities and programs. This publication is circulated to members without charge.

Literature searches were conducted on creosote and silicosis. More than 600 inquiries were handled among which were 54 short, one-hour literature searches.

MEETINGS AND COURSES

The training course and meeting program for 1977 was very well received. On January 12-13, the thirteenth Engineering Discussional attracted 45 representatives from member companies. The Discussionals are open to members, only, with no registration fee. They are structured to provide a mutual exchange of information and discussion of problems in industrial hygiene and safety engineering.

On April 12-14, a training course and workshop on the Fundamentals of Industrial Hygiene Engineering was conducted in co-sponsorship with the Pittsburgh Section of the American Industrial Hygiene Association. An

intermediate level course on Recognition, Evaluation and Control of Occupational Health Hazards was given by IHF on November 14-16. Seventy-eight members and 20 non-members participated in these courses.

The course on New Concepts of Occupational Medicine Under OSHA for plant medical directors and physicians with part-time industrial affiliation was held in Pittsburgh on two successive weekends in May, and repeated in Chicago on August 13-16 and in Los Angeles on November 7-10. Approved for 24 credit hours in Category I of the AMA's Physician's Recognition Award and 24 Elective Hours by the American Academy of Family Physicians, the courses were attended by 110 physicians.

Occupational Health Update, A Training Course for Occupational Health Nurses, was conducted on September 22-23. Ninety nurses attended this course and each received 1.2 continuing education units from the American Nurses Association for their participation.

A Symposium on the Health Aspects of Chromium Containing Materials, held on September 15 in Baltimore, Maryland and co-sponsored by the Organization Resources Counselors, dealt with safe and healthful ways to use chromium containing materials in pigment manufacture, painting, plating, and wood preservation.

Attendees for all programs totaled 399, of which about 60 percent were representing member companies. Unfortunately, the Seminar for Managers on Health Regulations Under OSHA scheduled for October 11 in Pittsburgh had to be cancelled because of insufficient registration. It would appear that managers are leaving the problems related to adhering to OSHA's regulations to the technical personnel in their companies.

LABORATORY SERVICES

Analytical Laboratory

Tests are performed on environmental samples collected with filters, impingers and charcoal tubes, and biological samples of blood and urine. Over 2,680 samples were analyzed during the year. Analyses included asbestos fiber counts, metals, fluorides as well as organic solvents, vinyl chloride and free silica. The laboratory is accredited by the American Industrial Hygiene Association, and because of the increasing number of biological sample requests, accreditation from the Center for Disease was applied for in December.

Toxicology Laboratory

Located in the Eureka Building in the Oakland section of Pittsburgh, the Toxicology Laboratory conducts long- and short-term animal studies on materials or products. All procedures are in accordance with the provisions of the Federal Hazardous Substances Act. During 1977 four short-term studies were carried out as well as a sub-acute feeding study on two inorganic materials. Also, a long-term inhalation study was initiated on a fibrous material.

PROJECTS

Epidemiology Studies

An extensive morbidity and mortality epidemiology study is in process on the health effects of work in a chemical industry. Field work and data collection is being carried out by IHF personnel and statistical consultation, data processing, and computer time are being provided by the University of Pittsburgh, Department of Biostatistics in the Graduate School of Public Health under contract to IHF.

Administrative

IHF serves as technical advisor, administrative coordinator, and treasurer for special health and safety committees of three industry groups. The objectives of these committees is to investigate possible adverse health effects of exposure to the chemicals, compounds and materials found in their particular industry. One committee includes foreign companies, and meetings for that group have been held in London and Munich as well as in various locations in the United States.

These industry groups have found they can work more effectively and more economically through collective action than they could as individual companies. IHF provides the aegis under which they may meet and exchange ideas for the solution of problems of industrial and environmental health, within the restraints of the Anti Trust Laws.

01000410

STAFF ACTIVITIES

Dr. Braun was guest speaker at a corporate management meeting of the SCM Corporation on June 6, 1977 in Mobile, Alabama. His talk was on maintaining good working relations with the community and plant physicians.

On September 7, Dr. Braun presented a paper on "The Role of Enzymes in Byssinosis" at the Medichem Conference in San Francisco. Medichem is a committee of the Permanent Commission and International Organization on Occupational Health. It is concerned with health in the chemical industries.

Professional staff members also lecture at IHF's training courses. Dr. Braun spoke on "The Changing Responsibilities of Industrial Physicians" at the three physicians courses. Mr. Brlan lectured on "The Role of the Industrial Hygiene Engineer" at the physicians courses and assisted with the Workshops on Gas and Vapor Evaluation at the industrial hygiene courses. Mr. Speicher also assisted with these workshops and gave the talk on Ventilation.

01000411

INDUSTRIAL HEALTH FOUNDATION, INC.

Balance Sheet

December 31, 1977 and 1976

ASSETS

	<u>1977</u>	<u>1976</u>
<u>Current Assets</u>		
Cash on hand and in bank	\$ 10,724.55	\$ 23,056.43
Accounts Receivable	48,008.48	43,017.76
Inventory	1,200.00	1,200.00
Prepaid Insurance	1,273.42	1,109.88
Travel Advance		150.00
Work in Progress	<u>11,933.25</u>	<u>6,355.07</u>
	<u>73,139.70</u>	<u>74,889.14</u>
<u>Property and Equipment</u>		
Land	121,745.00	121,745.00
Building	96,795.41	96,795.41
Equipment and fixtures	35,690.29	31,990.15
Lab equipment (donated)	<u>35,000.00</u>	<u>35,000.00</u>
	289,230.70	285,530.56
<u>Less Depreciation taken to date</u>	<u>67,841.59</u>	<u>57,282.17</u>
	<u>221,389.11</u>	<u>228,248.39</u>
	<u>\$294,528.81</u>	<u>\$303,137.53</u>

LIABILITIES

<u>Current Liabilities</u>		
Accounts Payable	\$ 1,275.45	\$ 1,573.10
Note payable - bank	15,000.00	20,000.00
Accrued payroll taxes	593.77	639.28
Current portion of long-term debt	7,563.08	6,707.26
Deferred income:		
Prepaid dues	75,525.00	50,485.00
Prepaid subscriptions	25,708.74	19,028.66
Payment received on uncompleted project	<u>29,367.92</u>	<u>1,850.00</u>
	<u>155,033.96</u>	<u>100,283.30</u>
<u>Long-Term Liabilities</u>		
Mortgage payable - P.I.D.A.	39,269.84	45,750.10
Note payable - R.I.D.C.	<u>1,135.00</u>	<u>1,362.00</u>
	40,404.84	47,112.10
<u>Less Current portion</u>	<u>7,563.08</u>	<u>6,707.26</u>
	<u>32,841.76</u>	<u>40,404.84</u>
<u>Equity</u>	<u>106,653.09</u>	<u>162,449.39</u>
	<u>\$294,528.81</u>	<u>\$303,137.53</u>

An Independent Audit by
 Glaesser and Company
 Certified Public Accountants
 Pittsburgh, Pennsylvania
 June 16, 1978

01000412

MINUTES

ANNUAL BUSINESS MEETING OF MEMBERS

Industrial Health Foundation
5231 Centre Ave., Pittsburgh, Pa.
December 9, 1977

The meeting was called to order by Mr. Edward J. Slack, Chairman of the Board of Trustees.

Mr. Brian reported that 89 proxies had been received, which represented 59% of the IHF members, and in accordance with our By-Laws, constituted a quorum.

Minutes of the last Annual Business Meeting, held on October 27, 1976, were read by Mr. Brian, and since there were no objections, Chairman Slack declared the minutes approved as read.

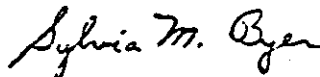
Chairman Slack read the following names of members who were selected by the Nominating Committee to serve on the Board of Trustees for a three-year term: Amos J. Brown, M.D., Associate General Medical Director, Western Electric Company; Mr. Robert S. Gentz, Vice President, Industrial Relations, Inland Steel Company; Dr. Alonzo W. Lawrence, Vice President, Environmental Resources, Koppers Company, Inc.; Dr. Philip X. Masciantonio, Director, Environmental Control, United States Steel Corporation. For re-election to a three-year term, Mr. James E. Foster, Vice President and Manager, Oakland Branch, Mellon Bank, and Raymond A. Yerg, M.D., Director of Medicine, Health and Safety, American Can Company. Motion to elect was made by Dr. Braun, seconded by Mr. Slack, and passed by a unanimous vote.

Chairman Slack then read the following names selected by the Nominating Committee for a two-year term: Mr. Robert F. Kennedy, Director of Personnel Practices, Westinghouse Electric Corporation, and Mr. Joseph G. Seveck, Vice President, Technology, St. Joe Minerals Corporation. Motion to elect was made by Mr. Foster, seconded by Dr. Braun, and passed by a unanimous vote.

The next order of business concerned the selection of an independent auditor of the accounts of the Industrial Health Foundation. Glausser & Company of Pittsburgh, Pa. had been recommended highly. Chairman Slack and Mrs. Carlisle both felt it desirable to retain an outside auditor, and Mrs. Carlisle noted that Dr. Braun had initiated the independent audit for IHF. Motion to retain Glausser & Company was made by Mr. Slack, seconded by Mr. Foster, and passed by unanimous vote.

Since there was no new business to be brought before the meeting, motion to adjourn was made by Mr. Foster, seconded by Mr. Slack, and passed by unanimous vote.

Respectfully submitted,



Sylvia M. Byer
Secretary to Dr. Daniel C. Braun

01000413

IHF MEMBERS

<u>Date Joined</u>	<u>Company</u>	<u>Date Joined</u>	<u>Company</u>
1937	*Abrasive Grain Association	1956	Equitable Life Assurance Society of U. S.
1976	Allegheny County Sanitary Authority	1976	Essex Group, Inc.
1936	Allegheny Ludlum Industries, Inc.	1964	Exxon Corp.
1945	*Alliance of American Insurers	1973	Falcon Foundry Co.
1956	Allied Chemical Corp.	1976	Fort Pitt Steel Casting
1936	Aluminum Co. of America	1974	Fostoria Glass Co.
1969	Aluminum Co. of Canada, Ltd.	1936	Foundry Supply Manufacturers Group
1957	AMAX, Inc.	1976	The Franklin Glue Co.
1947	American Can Co.	1970	General Cigar & Tobacco Co., Div. of Culbro Corp.
1971	American Foundrymen's Society	1947	General Electric Co.
1973	American Industrial Hygiene Association	1951	General Mills, Inc.
1938	*American Insurance Association	1942	General Motors Corp.
1944	American Iron & Steel Institute	1974	General Refractories Co.
1937	American Mining Congress	1954	Georgia Kaolin Co.
1967	American Petroleum Institute	1937	*Grinding Wheel Institute
1976	American Restaurant China Council, Inc.	1950	Gulf Oil Corp.
1936	ASARCO, Inc.	1976	Halcon International, Inc.
1969	American Textile Manufacturers Institute, Inc.	1936	Hall China Co.
1976	American Welding & Manufacturing Co.	1977	Hankison Corp.
1976	American Wood Preservers Institute	1976	Harbison-Walker Refractories
1976	Americhem, Inc.	1972	Heinz U.S.A. (Div. of H. J. Heinz Co.)
1976	Anaconda Co., Wire & Cable Division	1966	Hierro-Peru
1966	ARCO/Polymers, Inc.	1976	Hill & Griffith Co.
1970	Argonaut Insurance Co.	1973	Howell Industrial Clinic
1974	BASF Wyandotte Corp.	1937	Huntington Alloys, Inc.
1977	Borg-Warner Chemicals	1975	Industrial Gasket & Shim Co., Inc.
1944	Brush Wellman, Inc.	1947	Inland Steel Co.
1977	Buffalo Color Corp.	1947	International Business Machines Corp.
1955	CPC International, Inc.	1970	International Lead Zinc Research Organization
1977	Campbell Soup Co.	1936	Johns-Manville Corp.
1971	*Cemented Carbide Producers Association	1939	Jones & Laughlin Steel Corp.
1977	Central Medical Health Services	1955	Kawecki Berylico Industries, Inc.
1968	CertainTeed Corp.	1974	Kopp Glass, Inc.
1974	Chrysler Corp.	1970	Laclede Steel Co.
1958	Ciba-Geigy AG	1962	Lagoven, S. A.
1974	Colt Industries Inc.	1968	Homer Laughlin China Co.
1972	Columbia Gas System Service Corp.	1974	Lenox Crystal, Inc.
1975	Commercial Shearing, Inc.	1937	J. S. McCormick Co.
1958	Companhia Siderurgica Nacional	1976	Marathon Oil Co.
1973	Consolidated Edison Co. of New York, Inc.	1937	Metropolitan Life Insurance Co.
1972	Consolidated Natural Gas Service Co.	1936	Mine Safety Appliances Co.
1973	Consolidation Coal Co., Inc.	1971	Mobay Chemical Co.
1977	John D. Copanos Co., Inc.	1975	Monongahela Iron & Metal Co., Inc.
1952	Diamond Shamrock Corp.	1977	Motor Coils Manufacturing Co.
1976	Dick Corp.	1946	Motor Vehicle Manufacturers Assn. of U. S., Inc.
1973	Dow Chemical U. S. A.	1974	National Annealing Box Co.
1976	Dow Corning Corp.	1972	National Forge Co.
1937	Drakenfeld Division, Hercules, Inc.	1977	National Health Watch, Inc.
1937	Dravo Corp.	1972	Organization Resources Counselors, Inc.
1966	Eastman Kodak Co.	1953	Owens-Corning Fiberglas Corp.
1936	E. I. du Pont de Nemours & Co.	1937	PPG Industries, Inc.
1973	Minerals & Chemicals Division Engelhard Minerals & Chemicals Corp.	1937	Pennsylvania Glass Sand Corp.
1975	Epic Metals Corp.		

*Multiple Membership

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THF MEMBERS (continued)

<u>Date Joined</u>	<u>Company</u>	<u>Date Joined</u>	<u>Company</u>
1972	Peoples Natural Gas Co.	1976	Stellite Division, Cabot Corp.
1975	Pittsburgh & Lake Erie Railroad	1969	Tenneco, Inc.
1970	Pneumafil Corp.	1966	Thermal Insulation Manufacturers Assn.
1938	Portland Cement Association	1976	Tile Council of America, Inc.
1970	Potters Industries, Inc.	1970	Travelers Insurance Companies
1973	Pullman-Standard	1972	Tri-State Engineering Co.
1977	Quaker State Oil Refining Corp.	1976	II-VI Inc.
1976	RAD Services, Inc.	1936	Union Carbide Corp.
1968	Raybestos-Manhattan, Inc.	1974	United States Gypsum Co.
1976	The Refractories Institute	1970	U. S. Minerals Products Co.
1937	H. H. Robertson Co.	1936	U. S. Potters Association
1976	SCM Corp.	1936	United States Steel Corp.
1972	Safety First Industries, Inc.	1960	Van Straaten Chemical Co.
1973	The Sager Glove Corp.	1972	Vesuvius Crucible Co.
1937	St. Joe Minerals Corp.	1977	Volkswagen Mfg. Corp. of America
1937	Sauereisen Cements Co.	1976	WABCO Railway Products Group
1977	Schuylkill Metals Corp.	1975	Washington Mould, Machine & Foundry Co.
1956	Seattle Services Div., The Boeing Co.	1974	Watson-Standard Co.
1976	Senco Products, Inc.	1937	Wedron Silica Div., Pebble Beach Corp.
1974	Sharon Steel Corp.	1977	Wenczel Tile Co.
1972	Shell Oil Co.	1962	Western Electric Co., Inc.
1974	Shenango Inc.	1937	Westinghouse Electric Corp.
1956	Soap & Detergent Association	1977	Whirlpool Corp.
1977	Spartek, Inc.	1976	Williams & Co., Inc.
1975	The Standard Oil Co.	1975	Young Galvanizing, Inc.
1937	Stauffer Chemical Co.		

NEW MEMBERS — 1977

Borg-Warner Chemicals
Buffalo Color Corp.
Campbell Soup Co.
Central Medical Health Services
John D. Copanos Co., Inc.
Hankison Corp.
Motor Coils Manufacturing Co.
National Health Watch, Inc.
Quaker State Oil Refining Corp.
Schuylkill Metals Corp.
Spartek, Inc.
Volkswagen Manufacturing Corp. of America
Wenczel Tile Co.
Whirlpool Corp.

01000415

BOARD OF TRUSTEES

Chairman
Kenneth W. Nelson
ASARCO, Inc.

Vice Chairman
Dr. D. S. Potter
General Motors Corp.

Past Chairman
Edward J. Slack
PPG Industries, Inc.

Secretary
Dr. Calhoun L. H. Howard
Mobay Chemical Co.

Treasurer
James E. Foster
Mellon Bank

President
Daniel C. Braun, M. D.
Industrial Health Foundation, Inc.

Amos J. Brown, M. D.
Western Electric Co.

Robert S. Gentz
Inland Steel Co.

Robert G. Lind
J. S. McCormick Co.

Thomas W. Carmody
Union Carbide Corp.

John T. Hall
The Hall China Co.

Dr. Philip X. Masciantonio
United States Steel Corp.

James D. Copeland
Dravo Corp.

Robert G. Hampel
Aluminum Co. of America

Joseph G. Seveck
St. Joe Minerals Corp.

William R. Cunnick, Jr., M. D.
Metropolitan Life Insurance Co.

Dr. Theodore S. Hermann
Carnegie-Mellon Inst. of Research

Clifford L. Sheckler
Thermal Insulation Mfrs. Assn.

John C. Duffy, M. D.
IBM Corp.

Milton G. Hulme, Jr.
Mine Safety Appliances Co.

John Vyverberg
Owens-Corning Fiberglas Corp.

Warren S. Ferguson
Allied Chemical Corp.

Robert F. Kennedy
Westinghouse Electric Corp.

Raymond A. Yerg, M. D.
American Can Co.

Dr. Alonzo W. Lawrence
Koppers Co., Inc.

01000416

COMMITTEES

ENGINEERING

Chairman
Gary E. Welch
St. Joe Zinc Co.

Richard S. Brief
Esso Research & Engineering Co.

Dr. Donald R. Lynam
International Lead Zinc Res. Org.

George L. Swallow
Johns-Manville Corp.

P. S. Eshelman
General Motors Corp.

James F. Morgan
E. I. du Pont de Nemours & Co.

R. H. Watson
Aluminum Co. of America

Ross J. Elson
Inland Steel Co.

Joseph E. Zatek
Mine Safety Appliances Co.

LEGAL

Chairman
Andrew Kalmykow
American Insurance Association

Richard E. Day
Pennsylvania Glass Sand Corp.

Edward E. Kuebler
Kuebler & Del Deo

Douglas Soutar
ASARCO, Inc.

Robert Gillespy
Squire, Sanders & Dempsey

J. Paul Martha

James S. Stickles
Alliance of American Insurers

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General Electric Co.

Thomas S. Ely, M. D.
Eastman Kodak Co.

Robert J. Halen, M. D.
Jones & Laughlin Steel Corp.

Edward R. Plunkett, M. D.
General Electric Co.

Lee B. Grant, M. D.
PPG Industries, Inc.

E. Quentin Hull, M. D.
Union Carbide Corp.

Otto P. Preuss, M. D.
Brush Wellman Inc.

Raymond F. Peters, M. D.
Dravo Corp.

NURSING

Chairman
Helen Kunzler, R. N.
United States Steel Corp.

Anne K. Carnahan, R. N.
The Hall China Co.

Barbara Miller, R. N.
Aluminum Co. of America

Janet M. Ruff, R. N.
U. S. Army Environmental
Hygiene Agency

Dorothy Dean, R. N.
Jones & Laughlin Steel Corp.

Ann R. Roseta, R. N.
Dravo Corp.

Rae Wharton, R. N.
Employers Insurance of Wausau

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Diamond Shamrock Corp.

Dr. Anna M. Baetjer
The Johns Hopkins University

Edward J. Kerfoot, Ph. D.
BASF Wyandotte Corp.

Robert A. Scala, Ph. S.
Exxon Corp.

Howard E. Bumsted
U. S. Steel Research Laboratory

Harold N. MacFarland, Ph. D.
Gulf Oil Corp.

M. O. Varner
ASARCO, Inc.

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