

*Trade Show 1959
#896*

FORTY-FOURTH ANNUAL MEETING

Industrial

Medical Association

• Pages . . . 33-43

TWENTIETH ANNUAL MEETING

American

Industrial Hygiene Association

• Pages . . . 12-30

TWENTY-FIRST ANNUAL MEETING

American Conference of

Governmental Industrial Hygienists

• Pages . . . 8-11

SEVENTEENTH ANNUAL MEETING

American

Association of Industrial Nurses Inc

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SIXTEENTH ANNUAL MEETING

American

Association of Industrial Dentists

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1959 INDUSTRIAL HEALTH CONFERENCE
April 25th to May 1st, 1959
Chicago, Illinois • Hotel Sherman

Adm. Manual

REGISTRATION AND MEETING ROOM INFORMATION

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Registration for Conference

Lobby, Hotel Sherman—Sunday, April 26 9:00-3:30
 Monday, April 27 thru Thursday, April 30 8:00-5:00
 Registration Fee \$5.00

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Color of Registration Cards and Badges:

- Blue — Industrial Medical Association
- Green — American Conference of Governmental Industrial Hygienists
- Yellow — American Industrial Hygiene Association
- Pink — American Association of Industrial Nurses
- Salmon — American Association of Industrial Dentists
- Purple — Exhibitors

★

Technical Exhibits

Tuesday, April 28, and Wednesday, April 29—8:45 a.m.-4:30 p.m.
 Thursday, April 30—8:45 a.m.-6:00 p.m.

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Scientific Exhibits

See Pages 49 & 50—same schedule as Technical Exhibits

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Meeting Room Locations

LADIES' HOSPITALITY ROOM First Floor—Louis XVI Room
 Mezzanine—9:00 to 4:00 daily
 Old Crystal Room
 Chicago — 101
 Polo — 102
 Jade — 103
 Emerald — 104
 Holiday — 105
 Orchid — 106
 Room 107
 Life — 108
 Time — 110
 Gold — 111
 Const — 112
 Ruby — 113
 Gold — 114

Basement—Shaw Room
Mezzanine—Grand Ballroom
Assembly Room
Partors L, M, O
Picnic Room

Third Floor—Bull Fight, #342

Sixth Floor—Bel Tahrin
Noby Dick—639
Ryfield—641

1960 Conference Planning Meeting will be held Friday morning, May 1, Hotel Sherman, Gold Room #114; 8:00 breakfast

KEY—ACOH—American Conference of Governmental Industrial Hygienists
AIHA—American Industrial Hygiene Association
IMA—Industrial Medical Association
AIIN—American Association of Industrial Nurses
AAID—American Association of Industrial Designers

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INDEX OF SPEAKERS—Continued

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INDEX OF SPEAKERS—Continued

[illegible]

1959 INDUSTRIAL HEALTH CONFERENCE

★

Chicago, Illinois
April 25 - May 1, 1959

★

General Chairman—D. John Lauer, M.D.
Deputy General Chairman—Herbert T. Walworth

★

Conference Chairmen

Arthur E. Petersen, M.D.
Industrial Medical Association

Lloyd E. Gordon

American Industrial Hygiene Association

Warren E. Eckhart

American Conference of Governmental Industrial Hygienists

Marie Greven, R.N.

American Association of Industrial Nurses

Alma Van den Berg, R.N., Co-chairman

Kenneth W. Misher, D.D.S.

American Association of Industrial Dentists

★

Program Chairmen

Eugene L. Walsh, M.D.
Industrial Medical Association

Elmer F. Wheeler

American Industrial Hygiene Association

Miriam Sachs, M.D.

American Conference of Governmental Industrial Hygienists

Ethel C. Burgess, R.N.

American Association of Industrial Nurses

Gay C. Kirby, D.D.S.

American Association of Industrial Dentists

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Arrangements Committee

George P. Bittner, Chairman
American Industrial Hygiene Association

N. Gillmer Long, M.D.
Industrial Medical Association

Dorothy Gelshecker
American Conference of Governmental Industrial Hygienists

Mary Kay Milles, R.N.
American Association of Industrial Nurses

R. I. Humphrey, D.D.S.
American Association of Industrial Dentists

★

Publicity Committee

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American Industrial Hygiene Association

James L. Solomon, M.D.
Industrial Medical Association

Tula S. Breard

American Conference of Governmental Industrial Hygienists

Julia A. Kleeter, R.N.

American Association of Industrial Nurses

Leonard S. Mervay, D.D.S.

American Association of Industrial Dentists

★

Scientific Exhibits Committee

Donald P. O'Neill, Chairman
American Industrial Hygiene Association

Paul J. Whitaker, M.D.
Industrial Medical Association

W. E. Park, M.D.

American Conference of Governmental Industrial Hygienists

Felicia P. Hanes, R.N.

American Association of Industrial Nurses

Harry H. Deugherty, D.D.S.

American Association of Industrial Dentists

★

Edward C. Holmblad, M.D., Managing Director
Stephen G. Hales, Director of Exhibits

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AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS

TWENTY-FIRST ANNUAL MEETING

Chicago, Illinois
April 25-28, 1959

★

Officers

Charles E. Coatsman, Chairman
Baltimore City Health Department
Baltimore 2, Maryland
Miriam Sachs, M.D., Chairman-Elect
New Jersey State Department of Health
Trenton 8, New Jersey
Thomas F. Mancuso, M.D., Past-Chairman
Ohio Department of Health
Columbus 15, Ohio

Jack Ballig
New York State Department of Labor
New York 13, New York

Elizabeth A. Newbert, R.N.
Tennessee Department of Public Health
Nashville 4, Tennessee

George E. Toback
Michigan Department of Health
City Hall Annex
Grand Rapids, Michigan

Charles D. Yaffe, Secretary-Treasurer
Occupational Health Field Headquarters
U. S. Public Health Service
1014 Broadway
Cincinnati 2, Ohio

★

Conference Chairman

Warren R. Reinhardt, Occupational Health & Safety Section, Department of Health, New Orleans, Louisiana

Program—Miriam Sachs, M.D., New Jersey State Department of Health, Trenton, New Jersey

Arrangements—Dorothy Geisheider, Division of Laboratories, Illinois Department of Health, Chicago, Illinois

Publicity—Tula S. Breccard, U. S. Public Health Service, Washington, D. C.

Scientific Exhibits—W. E. Park, M.D., Minnesota Health Department, Minneapolis, Minnesota

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SATURDAY, APRIL 25

9:00 a.m.—5:00 p.m.—Meeting of Standing Committees
1:30 p.m.—10:00 p.m.—Executive Committee Meeting
Yolo Room 102

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SUNDAY, APRIL 26

9:00 a.m.—Registration—Lobby—Hotel Sherman
9:30 a.m.—12:30 p.m.—Round Table Discussions:
Chemists—Mr. Robert G. Keenan and Mr. Harry E. Jaworski,
Co-chairmen—Room 107
Engineers—Mr. Andrew D. Hoesy and William L. Lea, Ph.D.,
Co-chairmen—Old Chicago Room 101
Nurses—Mrs. Mabelle J. Markee and Mrs. Mildred M. J.
Moore, Co-chairmen—Holtzly Room 105
Physicians—W. Clark Coepp, M.D. and W. E. Park, M.D.,
Co-chairmen—Time Room 110

1:30 p.m.—3:00 p.m.—Public Health Service Progress Reports—Old
Chicago Room 101

3:00 p.m.—5:00 p.m.—Continuation of Round Table Discussions
with all groups combined in one room—Mrs. Mildred M. J.
Moore, Mr. Harry E. Jaworski, Co-chairmen—Crystal Room
Concurrent with—

Meeting of Directors of State and Local Industrial Hygiene
Programs only, with Staff Members of Occupational Health
Program, U. S. Public Health Service.

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MONDAY, APRIL 27

8:00 a.m.—Registration—Lobby—Hotel Sherman

9:00 a.m.—General Session—Louis XVI and Crystal Rooms
Welcome: Charles E. Coatsman, Chairman, ACGIH

9:02 a.m.—Trends in State and Local Occupational Health Programs—Victoria M. Franke and Charles D. Yaffe, U. S. Public Health Service.

9:30 a.m.—Is Man Becoming Obsolete?—David Price, M.D., Assistant Surgeon General, U. S. Public Health Service.

10:00 a.m.—Intermission

10:05 a.m.—Business Session including

Discussion of Committee Reports:

Worker Health Information—Dr. Christine Eiseert, California Department of Public Health, Chairman

Threshold Limits—Mr. Allan L. Coleman, Connecticut Department of Health, Chairman

Standard Labeling Procedures—Dr. Harvey B. Eklund, Massachusetts Department of Labor and Industries, Chairman

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Small Plant Health Services—Dr. Harold J. Magnuson, U.S. Public Health Service, Chairman
 Recommended Analytical Methods—Mr. Robert G. Korman, U.S. Public Health Service, Chairman
 Membership—Mr. Dehmann H. Byers, U.S. Public Health Service, Chairman
 Ionizing Radiation—Mr. D. E. Van Farrow, Michigan Department of Health, Chairman
 Industrial Ventilation—Mr. George M. Hanna, Detroit Department of Health, Chairman
 Industrial Hygiene Records and Reports—Miss Victoria M. Traska, U.S. Public Health Service, Chairman
 Industrial Hygiene Codes and Regulations—Mr. Martin C. Wetmore, Texas Department of Health, Chairman
 Awards—Mr. Harry B. Asha, Vermont Department of Health, Chairman
 Air Sampling Instruments—Mr. Irving H. Davis, Michigan Department of Health, Chairman
 Air Pollution—Mr. Bernard D. Moonfield, Michigan Department of Health, Chairman
 Agricultural Health—Mr. Wilbur C. Applegate, Oregon State Board of Health, Chairman
 Epidemiology of Occupational Diseases—Dr. Thomas F. Macneon, Ohio Department of Health, Chairman

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Monday Afternoon

General Session.....Louis XVI and Crystal Rooms
 2:00 p.m.—Needed—Mail Order Industrial Hygiene For The Farm—Dr. Clyde M. Berry, State University of Iowa
 2:30 p.m.—Living In The Air We Breathe—H. H. Fawcett, General Electric Company, Schenectady, New York
 3:00 p.m.—Intermission
 3:30 p.m.—What's New In Industrial Ventilation—The Committee on Industrial Ventilation, ACGIH, George M. Hanna, Detroit Department of Health
 4:00 p.m.—Occupational Health Studies of The Shell Molding Process—George E. Tabick, Bernard D. Moonfield, and Irving H. Davis, Michigan Department of Health
 4:30 p.m.—Odorant Levels Recommended for Liquefied Petroleum Gases Insufficient for Adequate Warning of Explosive Mixtures—Rosa N. Kusan, John B. Pace, and Joe Lipera, University of Washington, Seattle, Washington

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TUESDAY, APRIL 28

General Session.....Louis XVI and Crystal Rooms
 9:00 a.m.—A Study of Pulmonary Talcosis—Dr. J. Mesalle, Dr. G. Reddin, and Dr. M. Kleinfield, New York State Department of Labor
 9:20 a.m.—Applications of Local Exhaust to New Operations and the Control of Traditional Operations by New Methods—James C. Barrett, Michigan Department of Health
 9:50 a.m.—Intermission—Visit Exhibits
 10:20 a.m.—Retrospective Studies of Pulmonary Cancer in Industrial Populations—Dr. R. B. Sutherland, Department of Health for Ontario
 10:50 a.m.—Business Meeting

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Tuesday Afternoon

Joint Session, ACGIH and AIHA—Louis XVI and Crystal Rooms
 Co-chairmen: Charles R. Williams, Ph.D., Liberty Mutual Insurance Company, Boston, Massachusetts (AIHA), and Charles E. Cochrane, Baltimore City Health Department, Baltimore, Maryland (ACGIH)
 2:00 p.m.—Summary of the Lead Conference Held in Chicago On November 6 and 7, 1968—Masfired Bowditch, Lead Industries Association, New York, New York
 2:30 p.m.—Summary Report on the Silicosis Conference in South Africa (February, 1969)—Theodore F. Hatch, University of Pittsburgh, Pittsburgh, Pennsylvania
 3:00 p.m.—Intermission—Visit Exhibits
 3:30 p.m.—Discussion of Status of Certification Program—Charles D. Yaffe, U.S. Public Health Service, Cincinnati, Ohio
 4:00 p.m.—Discussion of Status of Certification Program—Henry F. Smyth, Jr., Ph.D., Mellon Institute, Pittsburgh, Pennsylvania

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Tuesday Evening

7:00 p.m.—ACGIH 21st Anniversary Dinner—Country Store Restaurant, 17 S. Wabash Avenue

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AMERICAN INDUSTRIAL HYGIENE ASSOCIATION

TWENTIETH ANNUAL MEETING

Chicago, Illinois

April 27 - May 1, 1959

Officers

Kenneth W. Nelson, President
American Smelting & Refining Company, Salt Lake City, Utah
Blair F. Wheeler, President-Elect
Monsanto Chemical Company, St. Louis, Missouri
Charles R. Williams, Ph.D., Past President
Liberty Mutual Insurance Company, Boston, Massachusetts
William G. Fredrick, Sc.D., Secretary
Detroit Department of Health, Detroit, Michigan
William T. McCormick, Treasurer
Inland Steel Company, East Chicago, Indiana
George D. Clayton, Executive Secretary
14125 Prevoist, Detroit, Michigan

Directors

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Stanford Medical School, San Francisco, California
Charles P. Carpenter, Ph.D.
Mellon Institute, Pittsburgh, Pennsylvania
Lester V. Gaylor, Ph.D.
Alumina Company of America, Pittsburgh, Pennsylvania
John J. Perry
General Electric Company, Schenectady, New York
John M. Kane
American Air Filter Company, Inc., Louisville, Kentucky
Kenneth M. Morse
United States Steel Corporation, Pittsburgh, Pennsylvania
Norton Nelson, Ph.D.
New York University Medical Center, New York, New York
Verald K. Rowe
Dow Chemical Company, Midland, Michigan
Harry F. Schulte
Los Alamos Scientific Laboratory, Los Alamos, New Mexico
Leslie Silverman, Sc.D.
Harvard School of Public Health, Boston, Massachusetts

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Joseph F. Trean, Ph.D.
Atlas Powder Company, Wilmington, Delaware
Charles D. Yaffe
U. S. Public Health Service, Cincinnati, Ohio

★

Conference Committee

Herbert T. Walworth, Deputy General Co-Chairman
Lumbermens Mutual Casualty Company, Chicago, Illinois
Lloyd E. Gordon, Chairman
Zurich Insurance Company, Chicago, Illinois

Paul D. Halley
Standard Oil Company of Indiana, Chicago, Illinois

Walter F. Scholtz
Allis-Chalmers Manufacturing Company, West Allis, Wisconsin

Frank A. Smith, Ph.D.
University of Rochester, Rochester, New York
Anthony Weewucki, Jr.
Continental Casualty Company, Chicago, Illinois

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Eastman Kodak Company, Rochester, New York
John W. Yeung
International Harvester Company, Chicago, Illinois

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Rysdal Products Company, Chicago, Illinois
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Germain C. Crossman
Rausch and Lomb Optical Company, Rochester, New York
Charles W. Wyman
Western Electric Company, Chicago, Illinois

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Scientific Exhibits Committee

Donald P. O'Neil, Chairman
Argonne National Laboratory, Lemont, Illinois
Clark D. Bridges
Industrial Medical Association, Chicago, Illinois
William M. Sutton, M.D.
Eastman Kodak Company, Rochester, New York

Publicity Committee

Herbert J. Weber, Chairman
American Foundrymen's Society, Des Plaines, Illinois
Fred Cook
Blountsboro Casualty Corporation, Rock Island, Illinois
Charles E. McNaiff
Mine Safety Appliances Company, Long Island City, New York
Harold W. Whitbread
Inland Steel Company, East Chicago, Indiana

Program Committee

Elmer P. Wheeler, Chairman
Monsanto Chemical Company, St. Louis, Missouri
Vincent J. Cantow
General Motors Corporation, Detroit, Michigan
David W. Fessett, M.D.
Eastman Kodak Company, Rochester, New York
William R. Harris
U. S. Atomic Energy Commission, New York, New York
Howard N. Schuls
American Medical Association, Chicago, Illinois
Herbert E. Stoblinger, Ph.D.
U. S. Public Health Service, Cincinnati, Ohio
John P. Frawley, Ph.D.
Hercules Powder Company, Wilmington, Delaware
E. R. Hendrickson, Ph.D.
University of Florida, Gainesville, Florida
Robert G. Keenan
U. S. Public Health Service, Cincinnati, Ohio
J. A. Martin
Pratt & Whitney Aircraft, Middletown, Connecticut
Russell C. Ruhl
Bethlehem Steel Company, Bethlehem, Pennsylvania
George M. Wilkening
Esso Standard Oil Company, New York, New York

MONDAY, APRIL 27

9:00 a.m.

Meeting of Technical Committees Hotel Sherman
Analytical Chemistry Holiday Room
Engineering Gold Coast Room
Hygienic Guides Moby Dick Room
Noise Room 107
Radiation Room 641
Toxicology Ruby Room

9:00 a.m.-5:00 p.m.—Joint AIHA and ACGIH Technical Committee on Respirators—Old Chicago Room 101

12:00 Noon—Local Section Council Luncheon—Hotel Sherman, Jade Room

1:30 p.m.—Board of Directors Meeting—Hotel Sherman, Emerald Room

6:30 p.m.—Board of Directors Dinner—Hotel Sherman, Jade Room

TUESDAY, APRIL 28

9:00 a.m.—Registration, Hotel Sherman

9:00 a.m.—Meeting, Technical Committees' Chairmen—Hotel Sherman, Gold Coast Room

9:00 a.m.—Meeting, Air Pollution Technical Committee—Holiday Room

10:00 a.m.—Meeting, Conference Committee, Arrangements Committee, Chairman and Co-chairmen of all Sessions, and Monitors—Hotel Sherman, Jade Room

Tuesday Afternoon

Joint Session, AIHA-ACGIH—Hotel Sherman, Louis XVI and Crystal Rooms

Co-chairman—Charles R. Williams, Ph.D., Liberty Mutual Insurance Company, Boston, Massachusetts, and Charles E. Ceschmann, Baltimore City Health Department, Baltimore, Maryland

Paper No. 1

2:00 p.m.—The Lead Hygiene Conference of November 1968—Manfred Berditch, Lead Industries Association, New York, New York

Paper No. 2

2:30 p.m.—Summary Report on the Silicosis Conference in South Africa (February, 1969)—Theodore F. Hatch, University of Pittsburgh, Pittsburgh, Pennsylvania

3:00 p.m.—Intermission—Visit Exhibits

Employment Service for AIHA members and employers seeking industrial hygienists—Polo Room #102—9:00-12:00 and 2:00-5:00, Tuesday and Wednesday.

Paper No. 3
3:30 p.m.—Discussion of Status of Certification Program—Charles D. Yaffe, U. S. Public Health Service, Cincinnati, Ohio

Paper No. 4
4:00 p.m.—Discussion of Status of Certification Program—Henry P. Smyth, Jr., Ph.D., Mellon Institute, Pittsburgh, Pennsylvania

★

WEDNESDAY, APRIL 29

General Session—Hotel Sherman, Louis XVI and Crystal Rooms

Co-chairmen—Jack C. Radcliffe, Ford Motor Company, Dearborn, Michigan, and Kenneth M. Morse, U. S. Steel Corporation, Pittsburgh, Pennsylvania

9:00 a.m.—Welcome—Kenneth W. Nelson, American Smelting & Refining Company, Salt Lake City, Utah, AIHA President

Paper No. 5

9:05 a.m.—Laboratory Simulation of a Hot Industrial Job to Find Weather Conditions Critical for Producing Overstrain—Harwood E. Redding, Ph.D., Bruce A. Hertig, M.P.H., and Marvella L. Rickard, Ph.D., University of Pittsburgh, Pittsburgh, Pennsylvania

Paper No. 6

9:20 a.m.—Microwave Radiation Hazards—William E. Morgan, Boeing Airplane Company, Seattle, Washington (to be presented by M. Chaim Robbins, Boeing Airplane Company, Seattle, Washington)

Paper No. 7

9:55 a.m.—Some Newer Concepts of the Role of the Skeleton in Fluoride Deposition—Frank A. Smith, Ph.D., and Harold C. Ender, Ph.D., University of Rochester, School of Medicine and Dentistry, Rochester, New York

10:20 a.m.—Intermission—Visit Exhibits

Paper No. 8

10:40 a.m.—What Do You Mean by Normal Hearing—James H. Redford, Bethlehem Steel Company, Bethlehem, Pennsylvania

Paper No. 9

11:05 a.m.—Requirements for Reliable Audiometric Testing—Leo G. Deardor, Ph.D., University of Pittsburgh School of Medicine, Pittsburgh, Pennsylvania

Paper No. 10

11:30 a.m.—High-Speed Movies—A New Tool in Dust Control—Rushen J. Beaman, The Procter & Gamble Company, Cincinnati, Ohio

Employment Services for AIHA members and employers seeking industrial hygienists—Polo Room #102—9:00-12:00 and 2:00-5:30, Tuesday and Wednesday.

Wednesday Afternoon

1:00-2:30 p.m.—Annual Business Meeting of The American Industrial Hygiene Association—Hotel Sherman, Louis XVI and Crystal Rooms

General Session—Hotel Sherman, Louis XVI and Crystal Rooms

Co-chairmen—Allan E. Dooley, The Texas Company, New York, New York, and William S. Johnson, Bethlehem Steel Company, Bethlehem, Pennsylvania

Paper No. 11

2:30 p.m.—Training in Atmospheric Environmental Technology—Harry P. Kramer, Paul F. Woodrich, James P. Sheehy, and Andrew W. Reidenbach, U. S. Department of Health, Education, and Welfare, Robert A. Taft Sanitary Engineering Center, Cincinnati, Ohio

Paper No. 12

2:50 p.m.—Relationship of Street Level Carbon Monoxide Concentrations to Traffic Accidents—George D. Clayton, George D. Clayton & Associates, Detroit, Michigan, Warren A. Cook, University of Michigan, Ann Arbor, Michigan, and W. G. Fredrick, Sc.D., Department of Health, Detroit, Michigan

Paper No. 13

3:10 p.m.—The Relation of Bladder Cancer to Metabolism of Aromatic Amines—Walter Trull, Ph.D., New York University, Bellevue Medical Center, New York, New York

3:30 p.m.—Intermission—Visit Exhibits

Paper No. 14

3:50 p.m.—A Review of Ten Years' Experience in the Manufacture and Use of Triphenyl Phosphate—David W. Fassett, M.D., Robert L. Rosdabach, Ph.D., William L. Suttou, M.D., and C. J. Terhaar, Ph.D., Eastman Kodak Company, Rochester, New York

Paper No. 15

4:10 p.m.—The Industrial Hygiene of Uranium Refining—E. Christofano and William B. Harris, U. S. Atomic Energy Commission, New York, New York

Paper No. 16

4:30 p.m.—Epidemiological Findings Associated with Beryllium Extraction—Jan Lebeus, M.D., M.P.H., and Franz Mettner, M.D., M.P.H., Division of Industrial Hygiene, Pennsylvania Department of Health, Harrisburg, Pennsylvania

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Wednesday Evening

6:30 p.m.—AMERICAN INDUSTRIAL HYGIENE ASSOCIATION ANNUAL BANQUET—20th Anniversary Speaker: Dr. Kenneth McFarland, Educational Consultant and Lecturer, General Motors Corporation, Detroit, Michigan—Hotel Sherman, Louis XVI Room

THURSDAY, APRIL 30

7:30 a.m.—Past Presidents' Breakfast—Hotel Sherman, Jade Room

Concurrent Session—AIR POLLUTION—Hotel Sherman, Bal Tabarin

Session Arranger—E. E. Hendrickson, Ph.D., University of Florida, Gainesville, Florida

Co-chairmen—Paul F. Wehrlich, U. S. Department of Health, Education, and Welfare, Robert A. Taft Sanitary Engineering Center, Cincinnati, Ohio, and Jack T. Garrett, Monsanto Chemical Company, St. Louis, Missouri

Paper No. 17

9:00 a.m.—Constant Flow Regulators for the Hi-Volume Sampler—W. E. Harrison, Naval Ordnance Laboratory, Silver Spring, Maryland, J. S. Nader, and F. S. Fugman, U. S. Department of Health, Education, and Welfare, Robert A. Taft Sanitary Engineering Center, Cincinnati, Ohio

Paper No. 18

9:20 a.m.—Air Pollution Inventory—Procedure and Results—Bernard D. Bloomfield, Michigan Department of Health, Lansing, Michigan

Paper No. 19

9:40 a.m.—Engineering Estimates of Atmospheric Disposal Capacity—Harrison E. Cramer, Sc.D., Massachusetts Institute of Technology, South Dartmouth, Massachusetts

Paper No. 20

10:00 a.m.—Forecasting Air Pollution—L. E. Niemeyer, U. S. Department of Health, Education, and Welfare, Robert A. Taft Sanitary Engineering Center, Cincinnati, Ohio

10:20 a.m.—Discussion—Business Session

10:30 a.m.—Intermission—Visit Exhibits

Paper No. 21

10:50 a.m.—Recent Research and Developments in the Fixation and Mass Analysis of Atmospheric Sulfur Dioxide—Allen F. Welch, and James F. Terry, U. S. Department of Health, Education, and Welfare, Robert A. Taft Sanitary Engineering Center, Cincinnati, Ohio

Paper No. 22

11:10 a.m.—Air Pollution and Associated Health Hazards from Diesel Locomotive Traffic in a Railway Tunnel—Morris Katz, Ph.D., Department of National Health and Welfare, Ottawa, Ontario, Canada, R. P. Remick, Ph.D., and Z. Jager, Ph.D., Canadian National Railroad, Montreal, Canada

Paper No. 23

11:30 a.m.—Activities of the Automobile Industry in Reducing Hydro-carbon Exhaust Emissions—James M. Chandler, Ford Motor Company, Dearborn, Michigan

11:50 a.m.—Discussion

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Thursday Morning

Concurrent Session—NOISE—Hotel Sherman, Crystal Room

Session Arranger—George M. Wilkeing, Esso Standard Oil Company, New York, New York

Co-chairmen—Kenneth M. Morse, United States Steel Corporation, Pittsburgh, Pennsylvania, and George L. Benvallet, Rydon Products Company, Chicago, Illinois

Reports on the Current Status of Hearing Conservation Efforts

Paper No. 24

9:00 a.m.—Critique of Present Efforts to Develop a Damage Risk Criterion—Raymond Carhart, Ph.D., Northwestern University, The School of Speech, Evanston, Illinois

Paper No. 25

9:20 a.m.—Critique of Our Present Noise Control Engineering Efforts and Accomplishments—Clayton H. Allen, Ph.D., Bolt, Beranek and Newman, Inc., Cambridge, Massachusetts

Paper No. 26

9:40 a.m.—Critique of Our Present Legal Efforts and Accomplishments—Neil S. Symons, Vaughan, Brown, Kelly, Turner & Symons, Buffalo, New York

Paper No. 27

10:00 a.m.—Critique of Our Present Medical Efforts and Accomplishments—Meyer S. Fox, M.D., Milwaukee, Wisconsin

10:20 a.m.—Intermission—Visit Exhibits

10:40 a.m.—Discussion—Panel and Audience Participation

11:00 a.m.—Summary of the Current Status of the Hearing Conservation Problem—Kenneth M. Morse, U. S. Steel Corporation, Pittsburgh, Pennsylvania

11:10 a.m.—Business Session

Paper No. 28

11:20 a.m.—Implementation of Noise Reduction—John R. Engstrom, International Business Machines Corporation, Endicott, New York

Paper No. 29

11:40 a.m.—Special Sound Absorptive Materials in Noise Control—Benjamin C. Duggar, E. I. du Pont de Nemours & Company, Inc., Wilmington, Delaware

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Thursday Morning

Concurrent Session—RADIATION—Hotel Sherman, Louis XVI Room

Session Arranger—J. A. Martin, Pratt & Whitney Aircraft, Division of United Aircraft Corporation, Connecticut Operations—Canal, Middletown, Connecticut

Co-chairmen—J. J. Fitzgerald, Harvard University, Cambridge, Massachusetts, and Leslie Silverman, S.C.D., Harvard University, Boston, Massachusetts

Paper No. 30

9:00 a.m.—Review of Developments in the Field of Radiation Protection—G. Victor Beaud, Ph.D., Division of Biology and Medicine, U. S. Atomic Energy Commission, Washington, D. C.

Paper No. 31

9:20 a.m.—Uranium Mining: Examples of Radiation Problems Encountered and Methods of Control—Robert L. Harris, Jr., Ronald R. Bales, Richard L. Monchard, and Duane A. Hahsday, Public Health Service, U. S. Department of Health, Education, and Welfare, Salt Lake City, Utah

Paper No. 32

9:40 a.m.—The Health Hazards Associated with the Commercial Milling of Uranium—Contaminated Ferrous Metal Scrap—R. H. Starker, J. W. McElvey, and E. J. Held, National Lead Company of Ohio, Cincinnati, Ohio, and E. L. Alpaugh, National Safety Council, Chicago, Illinois

Paper No. 33

10:00 a.m.—Nuclear Safety in Manufacturing Plants—James E. McLaughlin, U. S. Atomic Energy Commission, New York, New York

10:20 a.m.—Discussion

10:30 a.m.—Intermission—Visit Exhibits

Paper No. 34

10:45 a.m.—An Investigation of Lens Opacity on Personnel Operating a Portable Nuclear Reactor—J. K. Leverett, M.D., and C. Harold Bessley, M.D., Convair, Division of General Dynamics Corporation, Fort Worth, Texas

Paper No. 35

11:05 a.m.—The Effects of Quantity and Activity Levels on the Pulmonary Clearance of Radioactive Dust—H. Chamber, J. A. Watson, and A. A. Spritzer, University of Pittsburgh, Pittsburgh, Pennsylvania

Paper No. 36

11:25 a.m.—Administrative Experience in Occupational Over-Exposure to Radiation—Morris Kleinfeld, M.D., and Albert A. Abraham, State of New York Department of Labor, New York

11:45 a.m.—Discussion

Thursday Morning

Concurrent Session—TOXICOLOGY—Hotel Sherman, Old Chicago Room

Session Arranger—John P. Frawley, Ph.D., Hercules Powder Company, Wilmington, Delaware

Co-chairmen—E. D. Palmes, Ph.D., New York University, Bellevue Medical Center, New York, New York, and Dorothy B. Hood, Haskell Laboratory, E. I. du Pont de Nemours & Company, Inc., Wilmington, Delaware

Paper No. 37

9:00 a.m.—The Effect of Carbon Tetrachloride Inhalation on Serum and Tissue Enzymes—Herbert H. Cornish, Ph.D., and Walter D. Block, Ph.D., Institute of Industrial Health, University of Michigan, Ann Arbor, Michigan

Paper No. 38

9:15 a.m.—Toxicologic Studies of Acrylonitrile, Adiponitrile, and EIB-Oxydipropionitrile—J. L. Svirsky, Ph.D., and E. P. Floyd, M.S., U. S. Department of Health, Education, and Welfare, Robert A. Taft Sanitary Engineering Center, Cincinnati, Ohio

Paper No. 39

9:30 a.m.—Toxicological Studies on Hydrocarbons. The Biochemistry of Certain Aliphatic and Alicyclic Hydrocarbons—H. W. Gerarde, M.D., Ph.D., Esso Research & Engineering Company, Linden, New Jersey, and Bureau of Biological Research, Rutgers University, New Brunswick, New Jersey

Paper No. 40

9:45 a.m.—An Analytical and Comparative Metabolic Study of Para-Aminobiphenyl—Seeshell Leham, Ph.D., Department of National Health and Welfare, Ottawa, Ontario, Canada

Paper No. 41

10:00 a.m.—The Toxicity of Allyl Alcohol and Allyl Chloride as Determined on Laboratory Animals—T. R. Tortelone, M.S., F. Oyres, M. A. Wolf, M.S., and V. K. Rowe, M.S., The Dow Chemical Company, Midland, Michigan

Paper No. 42

10:15 a.m.—Cardiotoxicity of Alkylamines—C. H. Hine, M.D., R. Garman, R.S., J. K. Kedama, Ph.D., G. Lequvam, M.D., and H. H. Andersen, M.D., School of Medicine, University of California, San Francisco, California

10:30 a.m.—Intermission—Visit Exhibits

Paper No. 43

10:45 a.m.—Diethylstilbestrol Absorption in Industry: A Test for Early Detection as an Aid in Prevention—R. M. Walross, M.D., and R. T. Olson, R.S., Abbott Laboratories, North Chicago, Illinois

Paper No. 44

11:00 a.m.—The Use of Sequential Electrocardiograms in Toxicological Investigations—Charles E. Lewis, M.D., College of Medicine, University of Cincinnati, Cincinnati, Ohio

Paper No. 45

11:15 a.m.—A Study of Carbon Disulfide Toxicity—Arthur E. Cohen, M.D., Lester D. Schedl, Ph.D., Olga J. Debragorali, M.D., John P. Keppa, M.S., Fulton R. Meckel, Jr., R.S., Robert G. Keenan, M.D., John T. Montzuke, M.S., and Harold J. Pechen, Ph.D., U. S. Department of Health, Education, and Welfare, Bureau of State Services, Occupational Health Program, Cincinnati, Ohio

Paper No. 46

11:30 a.m.—Mineral Content of Pneumoconiotic Lungs and Lymph Nodes—Arthur J. Verrall, Ph.D., M.D., Ralph G. Smith, Ph.D., and James D. MacBroom, M.S., Wayne State University, Detroit, Michigan

Paper No. 47

11:45 a.m.—Experimental Cancers in Rats Produced by Carcinogen Compounds and Their Significance to Industry and Public Health—W. C. Hueper, M.D., and William W. Payne, National Cancer Institute, U. S. Public Health Service, Bethesda, Maryland

Employment Service for AIHA members and employers seeking industrial hygienists—Pole Room No. 102—9:00-12:00 and 2:00-5:00, Tuesday and Wednesday.

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Thursday Afternoon

Concurrent Session—JOINT AIR POLLUTION—ENGINEERING—Hotel Sherman, Bal Tabaria

Session Arrangers—E. E. Hendrickson, Ph.D., University of Florida, Gainesville, Florida, and Russell C. Ruff, Bethlehem Steel Company, Bethlehem, Pennsylvania

Co-chairmen—Frederick E. Tucker, Weirton Steel Company, Weirton, West Virginia, and Harry E. Seifert, Florida State Board of Health, Winterhaven, Florida

Paper No. 48

2:00 p.m.—Aerosol Filtration with Fibrous Media—Robert R. Evans, Mine Safety Appliances Company, Pittsburgh, Pennsylvania

Paper No. 49

2:20 p.m.—Concepts in Fabric Air Filtration—David G. Stephen, George W. Walsh, Robert A. Herrick, and Andrew H. Rice, Jr., U. S. Department of Health, Education, and Welfare, Robert A. Taft Sanitary Engineering Center, Cincinnati, Ohio

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Paper No. 50

2:00 p.m.—A Venturi Scrubber Designed for Pission Product Removal—Harry S. Jordan and Carl G. Welly, Los Alamos Scientific Laboratory, Los Alamos, New Mexico

Paper No. 51

3:00 p.m.—Use of a Gas Chamber for Testing Air Samplers—R. O. McCollin, Ph.D., U. S. Department of Health, Education, and Welfare, Robert A. Taft Sanitary Engineering Center, Cincinnati, Ohio, and E. R. Hendrickson, Ph.D., University of Florida, Gainesville, Florida

3:20 p.m.—Intermission—Visit Exhibits

Paper No. 52

3:40 p.m.—Lightweight Air Sample Pumps for Field Use—Merton Lippmann, Emil Christofani, and Robert T. Graveson, U. S. Atomic Energy Commission, New York, New York

Paper No. 53

4:00 p.m.—Industrial Hygiene Evaluation of a Plant Experiencing Thallium Exposures—William H. Hill, Ph.D., and Marie A. Murphy, B.S., University of Pittsburgh, Pittsburgh, Pennsylvania

Paper No. 54

4:20 p.m.—Five Years of Continuous Air Monitoring—Bernard D. Tebbens, Sc.D., University of California, Berkeley, California

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Thursday Afternoon

Concurrent Session—CHEMICAL AND ANALYTICAL—Hotel Sherman, Crystal Room

Session Arranger—Robert G. Keenan, U. S. Department of Health, Education, and Welfare, Occupational Health Field Headquarters, Cincinnati, Ohio

Co-chairmen—John L. Meekman, Department of National Health and Welfare, Ottawa, Ontario, Canada, and Bernard E. Salzman, Ph.D., U. S. Department of Health, Education, and Welfare, Occupational Health Field Headquarters, Cincinnati, Ohio

Paper No. 55

2:00 p.m.—Measurement of Ketene for the Study of Its Toxic Action On Animals—E. M. Mendenhall, Ph.D., A. L. Mendenhall, Jr., M.S., H. E. Ayer, R.S., and H. E. Stokinger, Ph.D., U. S. Department of Health, Education, and Welfare, Occupational Health Field Headquarters, Cincinnati, Ohio

Paper No. 56

2:20 p.m.—Separation of Fluoride from Urine by Ion Exchange—N. A. Tatavile and Lail W. Brewer, U. S. Department of Health, Education, and Welfare, Occupational Health Field Headquarters, Cincinnati, Ohio

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Paper No. 57

2:40 p.m.—Urinary Uranium Levels in Non-Exposed Individuals—George A. Welford, R.B., John S. Alerte, R.B., and Robert S. Morse, U. S. Atomic Energy Commission, New York, New York

Paper No. 58

3:00 p.m.—Hemoglobin Analysis for Aromatic Nitro and Amino Compound Exposure Control—J. M. Wetherhold, M.D., A. L. Lind, M.B., and R. C. Charaka, M.B., E. I. du Pont de Nemours & Co., Inc., Paines Grove, New Jersey

3:20 p.m.—Intermission—Business Session

Paper No. 59

3:40 p.m.—Microdetermination of Ozone in Smog Oxidant Mixtures—Bernard E. Saltzman, Ph.D., U. S. Department of Health, Education, and Welfare, Occupational Health Field Headquarters, Cincinnati, Ohio, and Nathan Gilbert, University of Cincinnati, Cincinnati, Ohio

Paper No. 60

4:00 p.m.—Identification and Determination of Organic Material in Air Borne Pollutants—J. L. Meekins and Ann Corbary, Department of National Health and Welfare, Ottawa, Ontario, Canada

Paper No. 61

4:20 p.m.—Analytical Experiences with Beryllium Determinations in A Comprehensive Air Pollution Study—V. Venghi, S. Watta, and F. Wahn, Pennsylvania Department of Health, Harrisburg, Pennsylvania

Paper No. 62

4:40 p.m.—Field Method for the Determination of Inorganic Lead Fumes in Air—Eugene A. Quinn, Esso Standard Oil Company, New York, New York

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Thursday Afternoon

Concurrent Session—RADIATION—Hotel Sherman, Louis XVI Room

Session Arranger—J. A. Martin, Pratt & Whitney Aircraft, Division of United Aircraft Corporation, Connecticut Operations—Gard, Middletown, Connecticut

Co-chairmen—Charles E. Williams, Ph.D., Liberty Mutual Insurance Company, Boston, Massachusetts, and D. C. Fletcher, General Electric Company, Schenectady, New York

Paper No. 63

3:00 p.m.—Health Physics Problems Following a Reactor Accident—J. M. White, Atomic Energy of Canada Limited, Chalk River Project, Chalk River, Ontario, Canada

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Paper No. 64

2:20 p.m.—The Dynamics of a Protective Clothing Program at a Large Atomic Energy Installation—R. W. Van Wyck and H. L. Butler, E. I. du Pont de Nemours & Company, Inc., Aliken, South Carolina

Paper No. 65

2:40 p.m.—Report on the Activities of the Radiation Committee—Thomas J. Burnett, Oak Ridge National Laboratory, Oak Ridge, Tennessee

3:00 p.m.—Discussion—Business Session

3:20 p.m.—Intermission—Visit Exhibits

Paper No. 66

3:40 p.m.—Radiation and Contamination Zoning Problems—C. E. Haynes, and E. J. Kena, Oak Ridge National Laboratory, Oak Ridge, Tennessee

Paper No. 67

4:00 p.m.—Evaluation of Fallout Data—Alan A. Jarrett, Atomic International, A Division of North American Aviation, Inc., Canoga Park, California

Paper No. 68

4:20 p.m.—A Pre-Operational Radiological Survey of the Environs of the Enrico Fermi Reactor—John V. Nchemias, The National Sanitation Foundation, Ann Arbor, Michigan

Paper No. 69

4:40 p.m.—Evaluation of a Pre-Operational Site Survey Program—William R. Harris, U. S. Atomic Energy Commission, New York, New York

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Thursday Afternoon

Concurrent Session—TOXICOLOGY—Hotel Sherman, Old Chicago Room

Session Arranger—John P. Frawley, Ph.D., Hercules Powder Company, Wilmington, Delaware

Co-chairmen—W. L. Bell, Ph.D., Department of National Health and Welfare, Ottawa, Ontario, Canada, and H. E. Stebbins, Ph.D., U. S. Department of Health, Education, and Welfare, Occupational Health Field Headquarters, Cincinnati, Ohio

Threshold Limit Values Symposium

Paper No. 70

2:00 p.m.—The Toxicological Basis of Threshold Limit Values—1. Experience with Threshold Limit Values Based on Animal Data—Henry F. Smyth, Jr., Ph.D., Mellon Institute, Pittsburgh, Pennsylvania, and Union Carbide Corporation, New York, New York

Paper No. 71

2:20 p.m.—The Toxicological Basis of Threshold Limit Values—2. Pathological and Biochemical Criteria—V. K. Rowe, The Dow Chemical Company, Midland, Michigan

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Paper No. 72

2:40 p.m.—The Toxicological Basis of Threshold Limit Values—
1. Physiological Criteria—John A. Zapp, Jr., Ph.D., Hazlett
Laboratory, E. I. du Pont de Nemours & Company, Inc.,
Wilmington, Delaware

3:00 p.m.—Intermission—Visit Exhibits

Paper No. 73

3:10 p.m.—The Toxicological Basis of Threshold Limit Values—
4. Theoretical Approach to Prediction of Toxicity of Mix-
tures—W. L. Ball, Ph.D., Department of National Health and
Welfare, Ottawa, Ontario, Canada

Paper No. 74

3:30 p.m.—The Toxicological Basis of Threshold Limit Values—
5. Experimental Inhalation of Mixture of Vapors—U. C.
Peacock, Mellon Institute, Pittsburgh, Pennsylvania

Paper No. 75

3:50 p.m.—The Toxicological Basis of Threshold Limit Values—
6. Report of Progress Symposium on International Threshold
Values—W. L. Ball, Ph.D., Department of National Health
and Welfare, Ottawa, Ontario, Canada

4:10 p.m.—Discussion and Questions

4:30 p.m.—Business Session

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FRIDAY, MAY 1

Concurrent Session—CHEMICAL AND ANALYTICAL—
Hotel Sherman, Crystal Room

Session Arranger—Robert G. Keenan, U. S. Department of Health,
Education, and Welfare, Occupational Health Field Head-
quarters, Cincinnati, Ohio

Co-chairmen—Newton E. Whittman, Bethlehem Steel Company,
Bethlehem, Pennsylvania, and Evan R. Campbell, Los Alamos
Scientific Laboratory, Los Alamos, New Mexico

Paper No. 76

9:00 a.m.—Analysis of Decaborane with Dipyrrolyl Ethylene—
Emil A. Pinner, M.Sc., and Jack M. Seash, University of
Pittsburgh, Pittsburgh, Pennsylvania

Paper No. 77

9:20 a.m.—Determination of Pentaborane by Means of Activated
Carbon—William H. Hill, Ph.D., Jean M. Merrill, B.S., and
Jack M. Seash, University of Pittsburgh, Pittsburgh, Penna-
sylvania

Paper No. 78

9:40 a.m.—The Value of Phase Microscopy for the Examination of
Particulate Material Collected on Membrane Filters—Ger-
maine Cressman, Bausch & Lomb Optical Company, Roches-
ter, New York

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Paper No. 79

10:00 a.m.—Sampling and Analysis of Cobalt Hydrocarbons and
its Decomposition Products in Air—R. D. Palmes, Ph.D.,
New York University, Bellevue Medical Center, New York,
New York

10:20 a.m.—Intermission

Paper No. 80

10:40 a.m.—The Collection and Analysis of Effluents from Com-
bustion Sources—Milton Feldstein, Joseph D. Coona, Herbert
C. Johnson, and John E. Yocom, Bay Area Air Pollution
Control District, San Francisco, California

Paper No. 81

11:00 a.m.—Vapor Phase Chromatography in Quantitative Deter-
mination of Air Samples Collected in the Field—Robert F.
Fera, B.S., Leonard A. Krause, M.S., and R. H. Mansur, M.S.,
Virginia Department of Health, Richmond, Virginia

Paper No. 82

11:20 a.m.—Chromatographic Separation of Phenolic Mixtures—
Ralph G. Smith, Ph.D., Robert E. Barrow, and James D.
MacEwen, Wayne State University, Detroit, Michigan

Paper No. 83

11:40 a.m.—The Determination of Zirconium in Air—Evan E.
Campbell, Los Alamos Scientific Laboratory, Los Alamos,
New Mexico

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Friday Morning

Concurrent Session—ENGINEERING—Hotel Sherman,
Ball Tabarin

Session Arranger—Russell C. Rahl, Bethlehem Steel Company,
Bethlehem, Pennsylvania

Co-chairmen—Allan E. Deoley, The Texas Company, New York,
New York, and Herbert I. Miller, Bethlehem Steel Company,
Lackawanna, New York

Paper No. 84

9:00 a.m.—Calibration of the Casella Cascade Impactor—Merton
Lippman, U. S. Atomic Energy Commission, New York, New
York

Paper No. 85

9:20 a.m.—Application of Activated Charcoal Adsorption for
Solvent Vapor Control—Fred S. Venable and Earlene A.
Quine, Phos Standard Oil Company, Baton Rouge, Louisiana,
and New York, New York

Paper No. 86

9:40 a.m.—An Approach to a Rational Method of Recommending
Face Velocities for Laboratory Hoods—Jack E. Peterson,
The Dow Chemical Company, Midland, Michigan

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Paper No. 87

10:00 a.m.—Air Distribution and Outlet Types for Industrial Supply Air Systems—John H. Clarke, Visking Company, Chicago, Illinois

10:20 a.m.—Intermission—Business Session

Paper No. 88

10:40 a.m.—Industrial Hygiene Features of Petro-Chemical Benzene Plant Design and Operation—J. W. Hammond, Humble Oil & Refining Company, Houston, Texas

Paper No. 89

11:00 a.m.—Some Health Hazards Associated with the Manufacture of Commercial Jet Aircraft—M. Cheln Robbins, Boeing Airplane Company, Seattle, Washington

Paper No. 90

11:20 a.m.—Treatment of Exhaust Gases From Boron Fuels—W. E. Williamson and M. F. Clay, General Electric Company, Cincinnati, Ohio

Paper No. 91

11:40 a.m.—Factory Heat Waves Can Be Broken—Bartlett E. Small, P. R. Aluminum Company of America, Pittsburgh, Pennsylvania

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Friday Morning

Concurrent Session—RADIATION—Hotel Sherman, Louis XVI Room

Session Arranger—J. A. Martin, Pratt & Whitney Aircraft, Division of United Aircraft Corporation, Connecticut Operations—Cassel, Middletown, Connecticut

Co-chairmen—Henry G. Lamb, American Standards Association, New York, New York, and Dr. Simon Klemm, Radiological Health Program, U. S. Department of Health, Education, and Welfare, Public Health Service, San Francisco, California

Paper No. 92

9:00 a.m.—The Technique of Planning for a Radiation Accident—Eugene L. Stenger, M.D., University of Cincinnati, Cincinnati General Hospital, Cincinnati, Ohio

Paper No. 93

9:20 a.m.—Emergency Planning to Reduce the Effects of Released Radioactive Materials in the Environment—J. J. Fitzgerald and R. G. Gallagher, Harvard University, Cambridge, Massachusetts

Paper No. 94

9:40 a.m.—Radioactive Trash Disposal at Los Alamos—John W. Eiders, Health Division, Los Alamos Scientific Laboratory, Los Alamos, New Mexico

Paper No. 95

10:00 a.m.—The Determination of Alpha Activity Associated with Sub-Microgram Quantities of Enriched Uranium in Urine—T. C. Whitson and T. Kawasaki, Union Carbide Nuclear Company, Oak Ridge, Tennessee

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10:20 a.m.—Discussion

10:30 a.m.—Intermission

Paper No. 96

11:00 a.m.—Rapid Estimation of Uranium Body Burden Following Acute Exposure—Birney R. Fish, Oak Ridge National Laboratory, Oak Ridge, Tennessee

Paper No. 97

11:20 a.m.—Correlation of Urine Data with Environmental Exposure to Uranium—John E. Reas, Westinghouse Electric Corporation, Pittsburgh, Pennsylvania

Paper No. 98

11:40 a.m.—A Survey of the Radiation Received by Dentists and Dental Assistants—Charles K. Spalding, Cancer Research Institute, New England Deaconess Hospital, Boston, Massachusetts

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Friday Morning

Concurrent Session—TOXICOLOGY—Hotel Sherman, Old Chicago Room

Session Arranger—John P. Frawley, Ph.D., Hercules Powder Company, Wilmington, Delaware

Co-chairmen—C. Boyd Shaffer, Ph.D., American Cyanamid Company, Stamford, Connecticut, and Joseph F. Trean, Ph.D., Atlas Powder Company, Wilmington, Delaware

Paper No. 99

9:00 a.m.—In Vivo Measurements of Pulmonary Dust Burdens—J. A. Watson, and H. Comber, University of Pittsburgh, Pittsburgh, Pennsylvania

Paper No. 100

9:15 a.m.—The Pulmonary Response to Blast Furnace Stack Dust—Paul Green, M.D., Marian L. Westrick, Ph.D., and James M. McMerney, M.P.H., Industrial Hygiene Foundation of America, Inc., Pittsburgh, Pennsylvania

Paper No. 101

9:30 a.m.—Toxicity of Boron Oxide Aerosols—James L. Wilding, Ph.D., Paul Yevich, Stella G. Ryan, W. J. Smith II, and Charles L. Fuate, U. S. Army Chemical Warfare Laboratories, Army Chemical Center, Maryland

Paper No. 102

9:45 a.m.—Autoradiographic Study of the Distribution of Plutonium Following Inhalation—J. J. Casarett, Ph.D., F. E. Morrow, Ph.D., and F. R. Gibb, D.S., The University at Rochester, Rochester, New York

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Paper No. 103

10:00 a.m.—Retention and Effect of Radioactive Particulates in the Lung—Charles W. LaBalle, Ph.D., Heinrich Brieger, M.D., James W. Giddard, M.D., Kathleen A. Rastatter, M.S., and Beverly L. Zager, The Jefferson Medical College of Philadelphia, Philadelphia, Pennsylvania

10:15 a.m.—Intermission

Paper No. 104

10:30 a.m.—Toxicological Properties of a Cobalt-Molybdenum Desulfurization Catalyst—Joseph C. Calandra, M.D., Ph.D., and John H. Kay, Ph.D., Industrial Bio-Test Laboratories, Inc., Northbrook, Illinois

Paper No. 105

10:45 a.m.—Beryllium Reactions with Tissue Constituents—Sidney Bolman, Ph.D., New York University, Bellevue Medical Center, New York, New York

Paper No. 106

11:00 a.m.—The Antagonistic Effects of Sulfur Compounds on the Respiratory Irritant Gases, Nitrogen Dioxide and Ozone—Edward J. Fairchild, Ph.D., U. S. Department of Health, Education, and Welfare, Occupational Health Program, Cincinnati, Ohio

Paper No. 107

11:15 a.m.—Potentiation of the Response to Irritant Gases by Inert Aerosols—Mary O. Amdur, Ph.D., Harvard School of Public Health, Boston, Massachusetts

Paper No. 108

11:30 a.m.—Effects on Growing Animals of a Continuous Exposure to Experimental Concentrations of Nitrogen Dioxide—Lyman A. Rupperton, and Donald E. Johnston, University of North Carolina, Chapel Hill, North Carolina

Paper No. 109

11:45 a.m.—Toxicity of Fumigant Products of "Tofen" TFE-Fluorocarbon Resins—J. W. Clayton, D. H. Head, and Gayl Raymond, Hissell Laboratory, E. I. du Pont de Nemours & Company, Inc., Newark, Delaware

AMERICAN ASSOCIATION OF INDUSTRIAL DENTISTS

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SIXTEENTH ANNUAL MEETING

Chicago, Illinois

April 27-29, 1959

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Industrial Dental Consultant, Pennsylvania Department of Health,
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Lincoln Medical Center, Anaheim, California

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St. Louis, Missouri

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Chicago, Illinois

Lynn F. Sirean, Ph.D., D.D.S., Merck, Sharp & Dohme,
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Convention Chairmen

Program—Gay C. Kirby, D.D.S., East Hartford, Connecticut
Publicity—Leonard S. Mervay, D.D.S., Newark, New Jersey

Scientific Exhibits—Harry S. Dougherty, D.D.S., Wyoming, Pennsylvania

Arrangements—Kenneth W. Maber, D.D.S., Chicago, Illinois

MONDAY, APRIL 27

HOTEL SHERMAN—All Meetings in Orchid Room, # 106, First Floor

9:30 a.m.—Registration (Lobby)

10:30 a.m.—Business Session

Presiding: K. W. Maber, D.D.S., President AAID

12:30-2:00 p.m.—Luncheon

2:00 p.m.—"The Hazards of Dental Radiography"—E. R. Arden, D.D.S., Industrial Dental Consultant, Department of Health, Harrisburg, Pennsylvania

3:00 p.m.—"Areas in Industrial Dentistry Frequently Overlooked"—Lynn F. Strom, Ph.D., D.D.S., Chief, Dental Medicine Department, Merck, Sharp and Dohme, West Point, Pennsylvania

4:00 p.m.—Discussion

6:00 p.m.—Cocktail Hour—Hotel Sherman—Wives Invited

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TUESDAY, APRIL 28

10:00 a.m.—"The Present Status of Industrial Dentistry"—Gay C. Kirby, D.D.S., Dental Director, Pratt and Whitney Aircraft, East Hartford, Connecticut

10:30 a.m.—"Where Do We Go From Here in the Field of Prepaid Dentistry?"—Colvin Weiss, D.D.S., Chief of Dentistry, St. Louis Labor Health Institute, St. Louis, Missouri

11:00 a.m.—"Dentistry in the Industrial Medical Department"—Will Ferson Lynn, M.D., Medical Director, Retired, International Harvester Company, Chicago, Illinois

11:30 a.m.—"Industrial Dentistry: Past, Present, and Future"—Robert L. Humphrey, D.D.S., Illinois State Board of Dental Examiners, Chicago, Illinois

12:30 p.m.—Luncheon

2:00 p.m.—"Interception"—C. E. Fricke, D.D.S., Duquesne Light Company, Pittsburgh, Pennsylvania

2:30 p.m.—"The Three Faces of Industrial Dentistry"—Frances R. Karlan, D.D.S., Metropolitan Life Insurance Company, New York, New York

3:00 p.m.—Title of paper to be announced—Robert E. Nemecoff, D.D.S., Young and Rubicam, New York, New York

3:30 p.m.—"The Present Status of Industrial Dentistry in the United States"—Aaron Finkelstein, D.D.S., Sidney Hillman Medical Center, Philadelphia, Pennsylvania

4:00 p.m.—Discussion

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WEDNESDAY, APRIL 29

9:30 a.m.—Open Forum—Our Position in the Industrial Health Field and What To Do About It

11:30 a.m.—Business Meeting and Election of Officers

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INDUSTRIAL MEDICAL ASSOCIATION

Headquarters Office

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12. Julian E. Williams, M.D., Knapport, Tennessee
13. Eugene H. Kremer, Jr., M.D., Louisville, Kentucky
14. Harry Vernon Sims, M.D., New Orleans, Louisiana
- 14A. William Q. Thoms, Jr., M.D., Birmingham, Alabama
15. Allen K. Harcourt, M.D., Indianapolis, Indiana
- 15A. Eugene L. Walsh, M.D., Chicago, Illinois
16. George E. Petersen, M.D., Beloit, Wisconsin
17. John F. Sharvett, M.D., Minneapolis, Minnesota
18. W. L. Macos, Jr., M.D., St. Louis, Missouri
- 18A. G. Presnell McArdle, M.D., Omaha, Nebraska
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20. Robert J. Pettit, M.D., Dallas, Texas
21. Robert A. Wiles, M.D., Houston, Texas
22. George L. Necht, M.D., Idaho Falls, Idaho
23. R. H. Reeve, M.D., Casper, Wyoming
24. Charles M. McGinn, M.D., Morenci, Arizona
25. Forrest E. Ricks, M.D., Portland, Oregon
27. John R. Eckstrick, M.D., San Francisco, California
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29. William H. Williams, M.D., Wahiawa, Oahu
30. Edwin A. Turcot, M.D., Montreal, Quebec
31. R. G. Warrallsten, M.D., Niagara Falls, Ontario
32. A. John Nelson, M.D., Vancouver, British Columbia

•Moved to Phillips, Texas

INDUSTRIAL MEDICAL ASSOCIATION

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FORTY-FOURTH ANNUAL MEETING

Chicago, Illinois
April 28-30, 1959

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- D. John Lauer, M.D., General Chairman
Jones & Laughlin Steel Corporation, Pittsburgh, Pennsylvania
- Arthur K. Peterson, M.D., Conference Chairman
R. R. Donnelley & Sons Company, Chicago, Illinois
- Eugene L. Walsh, M.D., Program Chairman
International Harvester Company, Chicago, Illinois
- N. Giffmer Lang, M.D., Arrangements Committee Chairman
Lumbermens Mutual Casualty Company, Chicago, Illinois
- Reinald A. Jacobson, M.D., Banquet Committee Chairman
Universal Oil Products Company, Des Plaines, Illinois
- James L. Salomon, M.D., Publicity Committee Chairman
Ford Motor Company, Aircraft Engine Division, Chicago, Illinois
- Paul J. Whitaker, M.D., Scientific Exhibits Committee Chairman
Allis-Chalmers Manufacturing Company, Milwaukee, Wisconsin
- Entertainment—Woman's Auxiliary to the Central States Society
of Industrial Medicine and Surgery—Mrs. Emmett B. Lamb,
President

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Members of the Academy of General Practice will be allowed
hour-for-hour informal post-graduate credit for attendance at
this meeting.

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SATURDAY, APRIL 26
9:00 p.m.—Executive Committee meeting—President's Suite

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SUNDAY, APRIL 26
9:00-3:00—Registration, Lobby
2:00 p.m.—District Counselors' meeting—Gold Room, No. 114

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MONDAY, APRIL 27
Registration—Lobby
Group Meetings and Group Dinners
9:00 a.m.—Committee Chairmen's Meeting—Gold Room, No. 114

[illegible]

2:10-12:30 p.m.—Question and Answer period

Wednesday P. M.—GENERAL SESSION—Grand Ballroom

Chairman: A. E. Petersen, M.D., President of Central States Society of Industrial Medicine and Surgery, Medical Director, R. E. Donnelly & Sons Company, Chicago

1:30-3:00 P.M.—"Arteriosclerosis, Hypertension, Coronary Disease—Current Concepts"—Louis N. Katz, M.D., Director, Cardiovascular Department, Medical Research Institute, Michael Reese Hospital, Chicago

3:30-2:45 P.M.—"Criteria of Aging—

Clinical Aspects

Kenneth E. Ray, M.D., Professor, Department of Medicine, University of Chicago, Chicago

Psychological Testing"

Ward C. Hales, Ph.D., Professor, Departments of Medicine and Psychology, Director of Medical Psychology, University of Chicago, Chicago

3:45-3:50 P.M.—Discussion

3:50-4:30 P.M.—Visit Exhibits

3:30-5:00 P.M.—IMA ANNUAL BUSINESS MEETING—Grand Ballroom

Presiding: H. W. Lawrence, M.D., President

Fellowship Address—E. A. Irvin, M.D., Past President

Fellowships to be conferred upon:

Joseph Theodore Andrews, M.D., Buffalo, New York
 Bernard Behrend, M.D., Philadelphia, Pennsylvania
 Levin Charles Beach, M.D., Denver, Colorado
 Albert John Blair, M.D., Pittsburgh, Pennsylvania
 Stanley John Bodet, M.D., Sparrows Point, Maryland
 James Joseph Brand, M.D., Buffalo, New York
 Merle Brady, M.D., Pittsburgh, Pennsylvania
 William Brady Camp, M.D., Kingsport, Tennessee
 Edward White Canby, M.D., McKeenport, Pennsylvania
 Elva Kravis Chaffee, M.D., Rochester, New York
 Roger Garrett Conant, M.D., Hartford, Connecticut
 Raymond LaRoy Conklin, M.D., South Bend, Indiana
 George Joseph Cooper, M.D., Chicago, Illinois
 Joseph Alfred Cozzetta, M.D., St. Louis, Missouri
 Sydney Cravener, M.D., of Ch. B. Victoria, Australia
 Wallace Lee Davidson, M.D., Philadelphia, Pennsylvania
 Paul Edward Derleth, M.D., Detroit, Michigan
 Leon O. Doudmann, M.D., Los Angeles, California
 Earle Thomas Dewey, M.D., San Francisco, California
 F. Curtis Dehan, M.D., Camden, New Jersey
 Thomas Joseph Doyle, M.D., Fresh Meadows, New York
 William Henry Duncan, M.D., Kansas City, Missouri
 Joseph Michael Drake, M.D., Lacksawanna, New York
 Charles Allen Earl, M.D., Richmond, Washington
 Matthew Elmer Fairbank, M.D., Honesoy Falls, New York
 Louis Bartlett Folson, M.D., Minneapolis, Minnesota
 Donald Kenneth Grant, M.F., Toronto, Ontario

Stanley Greenhill, M.D., Edmonton, Alberta
 Benjamin Aladar Gross, M.D., Philadelphia, Pennsylvania
 Lewis Charles Haslam, M.D., Montreal, Quebec
 Walter Wesson Haasig, M.D., Detroit, Michigan
 Ralph Woodworth Howell, M.D., Portland, Connecticut
 John Henry Hoge, M.D., Findlay, Ohio
 Thomas Hamilton Hoghead, M.D., Wilmington, Delaware
 Gordon Alfred Holden, M.D., Utica, New York
 Vernal William Hoffs, M.D., St. Louis, Missouri
 Meredith Haskins, M.D., Rochester, New York
 William Jewell, Jr., M.D., Penns Grove, New Jersey
 Donald Alanson Kelly, M.D., Cleveland, Ohio
 Norvin Charles Kiefer, M.D., New York, New York
 Eugene Eugene Kling, III, M.D., St. Louis, Missouri
 John Charles Kindy, M.D., North Tonawanda, New York
 Hallett Adams Lewis, M.D., Fontana, California
 Henrik W. Locke, M.D., Camden, New Jersey
 Iechok Jakob Mankowski, M.D., Richmond, Washington
 Elvavorth Fred Marriener, M.D., Riverside, California
 William Alton McClellan, M.D., Germantown, Tennessee
 Edwin Andrew McGovern, M.D., Cleveland, Ohio
 Robert Dean McIntosh, M.D., Detroit, Michigan
 Robert Hess Mehnert, M.D., Buffalo, New York
 Charles Irving Miller, M.D., Rochester, New York
 Emil Kenneth Meany, M.D., Peoria, Illinois
 Alfred John Nelson, M.D., Vancouver, British Columbia
 John Baptist Nicula, M.D., East Chicago, Indiana
 Eugene Fulmore Owen, M.D., Portland, Oregon
 Gordon Waldemar Peterson, M.D., Neenah, Wisconsin
 Charles William Peterson, Jr., M.D., New Orleans, Louisiana
 Walter Francis Prendergast, M.D., Toronto, Ontario
 Harold Wilfred Prince, M.D., El Segundo, California
 Sarah Emily Priole, M.D., Rochester, New York
 Jacob G. Probst, M.D., St. Louis, Missouri
 Vincent Eugene Ray, M.D., Garden City, L.I., New York
 Hecose Helen Reeve, M.D., Casper, Wyoming
 Arthur Butler Rhoaden, M.D., Kansas City, Missouri
 Dean Marvin Richmond, M.D., St. Joseph, Michigan
 James Ryan, M.D., San Diego, California
 Carl John Schaeffer, M.D., Bloomfield, New Jersey
 Bernard John Schuman, M.D., New York, New York
 Frederick Paston Shafer, M.D., Los Angeles, California
 William Lerne Shields, M.D., Detroit, Michigan
 Wilhelm John Sittner, M.D., Portland, Oregon
 Howard Flor Staak, M.D., Detroit, Michigan
 Vernon Carl Stehr, M.D., Oakland, California
 Leon Arthur Stegman, M.D., Rochester, New York
 Charles Reese Sullivan, Jr., M.D., Oak Ridge, Tennessee
 John Robert Sullivan, M.D., San Francisco, California
 John Mackey Trapnell, M.D., Philadelphia, Pennsylvania
 Walter Guy Vernon, M.D., Valley Forge, Pennsylvania
 Harry Roby Walker, M.D., Oakland, California
 Jean De Garne Walkers, M.D., Rochester, New York
 Reginald Edmund Lee Watson, M.D., Montreal, Quebec
 Frederick John Weismiller, Jr., M.D., Rochester, New York
 John Duran Welch, M.D., Portland, Oregon
 John Arthur Williams, M.D., St. Paul, Minnesota
 Sherman Mathews Williamson, M.D., Seattle, Washington
 Harold E. Ziller, M.D., Buffalo, New York

9:00-10:30 a.m.—SURGICAL SECTION—Grand Ballroom

6:00 p.m.—Fellowship Gathering—Grand Ballroom Foyer

7:00 P.M.—ANNUAL IMA BANQUET—Grand Ballroom

(Honoring Dr. Edward C. Heimbald)

Tickets may be purchased at the registration desk from Monday, April 27 to Wednesday Noon, April 29, \$16.00 per person

THURSDAY: APRIL 30

9:00 a.m.—Orientation Meeting of New Officers, Directors and Committee Chairman—Gold Room, #114

12:40 Noon—Past Presidents' Luncheon—Holiday Room, #105

2:00 p.m.—Occupational Health Institute, Board of Directors meeting—Life Room, #106

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9:00-10:30 a.m.—MEDICAL SECTION—Parlor M

Chairman: J. P. Jellene, M.D., Chairman, IMA Committee on Problem Drinking

9:00-9:30 a.m.—"Alcoholism in Industry"—Three 6-minute talks
 "Recent Trends in Treatment in Industry"—J. F. Jelluma,
 M.D., Plant Physician, Fisher Body Plant No. 2, Grand
 Rapids, Michigan

"Introduction of a Program in an Industrial Plant"—E. F. Buyschli, M.D., Medical Director, A.G.T. Division, General Electric Company, Evendale, Ohio

"Ten Years of a Company Program"—S. Charles France, M.D., Associate Medical Director, Consolidated Edison Company of New York, Inc., New York

Question and Answer period. Members and former members of Committee will be on platform to answer questions

9:30-9:45 a.m.—"Industrial Medicine—Some History and Background"—Alfred H. Whitaker, M.D., Chairman, History Committee IMA

9:45-10:00 a.m.—"Medical Criteria for Motor Vehicle Drivers"—Harold Brandegee, M.D., Chairman, IMA Committee on Standards for Motor Vehicle Drivers; Assistant Clinical Professor of Medicine, New York University College of Medicine, and Edward E. Miller, M.D., Director, Institute of Industrial Health, University of Michigan, Ann Arbor

10:00-10:15 a.m.—"Physical Fitness and Motor Vehicle Accidents"
—Robert P. Slim, M.D., Assistant Medical Director, Esso
Standard Oil Company, New York

10:15-10:30 a.m.—Discussion

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Thursday Morning, continued

11:00 a.m.-12:25 p.m.—MEDICAL SECTION—Parlor M

Chairman: Logan T. Robertson, M.D., Chairman, IMA Small Plants Services Committee

11:00-11:30 a.m.—"Industrial Medical Service in the Small Plant"—Bert W. Brooks, M.D., Chairman of Program Committee of IMA Small Plants Services Committee; Medical Director of M & M's Candies; Consultant to the Health Research Foundation, Upper Montclair, New Jersey

11:30-11:45 a.m.—"Logic in Liability Settlements"—Clem Martin, M.D., Medical Director, Continental Casualty Company, Chicago

11:45-12:05 p.m.—"A Biostatistical Approach to Drug Evaluation, Utilizing Industrial Clinics"—Harry E. Tebeck, M.D., F.A.C.O.M., Medical Director, Syvala Electric Products, Inc., New York—and John E. Silcox, M.D., M.P.H., affiliated with Geigy Pharmaceuticals (Division of Geigy Chemical Corporation), Ardsey, New York

2:05-12:25 p.m.—"Gynecologic Surveys in Industry—The Administrative Aspect"—Mac Key Gasque, M.D., Medical Director, Olin Mathliason Chemical Corporation, Pinguh Forest, North Carolina

11:00 a.m.-12:15 p.m.—SURGICAL SECTION—Grand Ballroom
 Chairman: George J. Cooper, M.D., Consulting Industrial Surgeon, Vice-President, Chicago Society of Industrial Medicine and Surgery

11:00-11:20 a.m.—"Medicolegal Problems and The Impartial Medical Witness"—G. A. Lertman, M.D., Professor of Pathology, University of Illinois, College of Medicine, Chicago

11:20-11:40 a.m.—"Some Practical Aspects of Disability Evaluation"—Leland C. Meigs, M.D., Medical Director, Hercules Powder Company, Wilmington, Delaware; Visiting Professor, Industrial Medicine, University of Pennsylvania, School of Medicine, Philadelphia

11:40-12:00 Noon—"The Rehabilitation Center's Function in a Community"—R. J. Mikels, M.D., Rehabilitation Institute of Chicago

12:00-12:15 p.m.—Discussion

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Thursday Afternoon

2:00-3:30 p.m.—MEDICAL SECTION—Parlor M

Chairman: James H. Storer, M.D., Medical Director, Eastman Kodak Company, Rochester, New York

2:00-3:00 p.m.—"Plastics—The Toxicology of Synthetic Resins"—Ben H. Wilson, M.D., Medical Director, R. F. Goodrich Company, Akron, Ohio

3:00-3:30 p.m.—"Beryllium Disease—

Clinical Aspects

Harold L. Hardy, M.D., Chief, Occupational Medical Service, Massachusetts General Hospital, Boston; Assistant Medical Director, Massachusetts Institute of Technology, Cambridge, Massachusetts, and John D. Slocum, M.D., Massachusetts General Hospital, Boston, Massachusetts

Experimental Studies"

Arthur J. Verward, M.D., Professor and Chairman, Department of Industrial Medicine and Hygiene, Wayne State University, Detroit, Michigan

3:00-3:15 p.m.—"Toxicology of Agricultural Chemicals, Pesticides, Fertilizers, etc."—Michael E. Zarem, M.D., The Kettering Laboratory, University of Cincinnati, Cincinnati, Ohio

3:15-3:30 p.m.—Discussion

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2:00-3:30—SURGICAL SECTION—Grand Ballroom

Chairman: J. F. McCahan, M.D., Medical Director, Western Electric Company, Hawthorne Station, Chicago, Illinois

2:00-2:30 p.m.—"Cardiac Resuscitation in Industry"—Robert V. Heider, M.D., Associate Director Course in Cardiac Resuscitation in Cleveland; Associate Director Course in Cardiac Respiratory Resuscitation given at New York Academy of Sciences, Cleveland, Ohio

2:30-2:55 p.m.—"Followup of Inguinal Hernia Repair with Tantalum Mesh"—Chester C. Gay, M.D., Clinical Associate Professor of Surgery, University of Illinois College of Medicine; Chief of Surgical Service, Illinois Central Hospital, Chicago

2:55-3:20 p.m.—"Superficial and Deep Thrombophlebitis of the Lower Extremities and Sequelae"—David I. Abramson, M.D., Professor and Head of the Department of Physical Medicine and Rehabilitation and Professor of Medicine, University of Illinois, College of Medicine, Chicago

3:20-3:30 p.m.—Discussion

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3:30-4:00 p.m.—Visit Exhibits

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4:00-5:00 p.m.—COMBINED MEDICAL AND SURGICAL SECTION—Grand Ballroom

Chairman: Raymond R. Seakind, M.D., Chairman, IMA Committee on Dermatology

4:00-4:25 p.m.—"Use of the Reflectance Spectrophotometer in the Management of Certain Skin Disorders"—William R. Buckley, M.D., Instructor in Medicine (Dermatology), University of Rochester, School of Medicine; Assistant Physician, Strong Memorial Hospital; Consulting Dermatologist, Eastman Kodak Company, Rochester, New York

4:25-5:00 p.m.—"Occupational Skin Problems"

Moderator: Raymond R. Seakind, M.D., Associate Professor of Dermatology, University of Cincinnati Medical School, Cincinnati, Ohio

Panelists:

Donald J. Birmingham, M.D., Assistant Professor of Dermatology, University of Cincinnati Medical School

William R. Buckley, M.D., Instructor in Medicine (Dermatology), University of Rochester, School of Medicine; Assistant Physician, Strong Memorial Hospital; Consulting Dermatologist, Eastman Kodak Company, Rochester, New York

Joseph E. Klander, M.D., Clinical Professor of Dermatology, Grindstone School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania

Discussion

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AMERICAN ASSOCIATION OF INDUSTRIAL NURSES, INC.

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AMERICAN ASSOCIATION OF INDUSTRIAL NURSES, INC.

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SEVENTEENTH ANNUAL MEETING
Chicago, Illinois
April 28-30, 1959

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