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Occupational Exposures to Fibrous and Particulate Dust



OCCUPATIONAL EXPOSURES TO FIBROUS AND PARTICULATE DUST
AND THEIR EXTENSION INTO THE ENVIRONMENT

The Mayflower Hotel
Washington, D. C.
December 4-7, 1977

Cosponsor
Mining Enforcement and Safety Administration
United States Department of Interior

SOCIETY FOR OCCUPATIONAL AND ENVIRONMENTAL HEALTH

Sunday, December 4, 1977

5:30 P.M. RECEPTION AND PRE-REGISTRATION FOR PARTICIPANTS AND ATTENDEES
(Cash Bar)

Monday, December 5, 1977

8:00 A.M. REGISTRATION

9:00 A.M. INTRODUCTORY REMARKS STATE ROOM

Greetings from SOEH and Scope of Conference

Dr. Joseph Wagoner, President of SOEH

9:30 A.M. SESSION I - FIBROUS MATERIALS IN THE OCCUPATIONAL AND NON-
OCCUPATIONAL ENVIRONMENT

Moderator: Dr. Fred Pooley, University College, Cardiff

- Speakers:
1. The Nature of Fibrous Minerals in Man's Environment
Dr. Arthur Langer, Mt. Sinai School of Medicine
 2. An Overview of Inorganic Man-Made Fibers in the Environment
Dr. Morton Corn, University of Pittsburgh

10:00 A.M. SESSION II - CURRENT CONCEPTS IN FIBER PATHOGENICITY

Moderator: Dr. Raymond Shapiro, NIEHS, North Carolina

- Speakers:
3. Animal Model for Inhalation Exposure to Talc
Dr. J. C. Wagner, Llandough Hospital, Wales
 4. Current Concepts in Asbestos Fibre Pathogenicity
Dr. J. M. G. Davis, Institute of Occupational Medicine,
Edinburgh

10:30 A.M. Coffee Break

5. Morphological Aspects of Biologically Relevant Fibers
Dr. K. H. Friedrichs, University of Dusseldorf
6. Translocation of Asbestos Fibers Through Respiratory
Tract and Gastrointestinal Tract According to Fiber Type
and Size
Dr. Patrick Sebastien, Service Hospitalier Universitaire
de Pneumologie, Paris
7. Fiber Dimensions: Their Significance in Deposition and
Clearance of Inhaled Fibrous Dusts
Dr. Arthur Morgan, Atomic Energy Research Establishment,
Harwell
8. Chronic Exposures of Hamsters to Asbestos Cement Dust
Dr. Alfred P. Wehner, Battelle Pacific Northwest Laboratories

Panel Dr. Fred Pooley, University College, Cardiff

Discussion: Dr. Philip M. Cook, National Water Quality Laboratory, Duluth
Dr. Jack Harington, NIEHS, North Carolina

Questions from the Audience

1:00 P.M. LUNCH

2:30 P.M. SESSION III - EXPOSURES AND HEALTH EFFECTS OF ASBESTOS MINERALS

Moderator: Dr. Irving Selikoff, Mt. Sinai School of Medicine

- Speakers:
9. Mortality Patterns Among Asbestos Workers
Ms. Cynthia Robinson, NIOSH, Cincinnati
 10. Family Exposure to Asbestos and Subsequent Disease
Dr. Henry A. Anderson, Mt. Sinai School of Medicine
 11. Asbestos Disease and Smoking Patterns - An Overview
Dr. Rudolfo Saracchi, International Agency for Research on Cancer, Lyon
 12. Overview of Research on Mechanisms by Which Asbestos Could Enter Drinking Water
Dr. W.H. Hallenbeck/Ms. C.S. Hesse, University of Illinois, School of Public Health

3:30 P.M. Coffee Break

13. Non-Occupational Indoor Asbestos Pollution
Dr. Robert N. Sawyer, Yale University
14. Monitoring and Measuring Airborne Concentrations of Asbestos Fibers
Dr. Gerald Chase, Johns-Manville Corp.
15. Unbiased Estimates of Coefficients of Variation for Asbestos Counting
Mr. Nelson Leidel, NIOSH, Rockville

Panel Dr. William Johnson, University of Washington

Discussion: Dr. Marvin Kuschner, School of Medicine, S.U.N.Y.

Questions from the Audience

7:00 P.M. RECEPTION AND SOEH AWARD BANQUET

CHINESE ROOM
EAST ROOM

Speaker: Judge Miles Lord

Recipient: Dr. Irving J. Selikoff

Tuesday, December 6, 1977

8:30 A.M. SESSION IV - EXPOSURES AND HEALTH EFFECTS OF INORGANIC SYNTHETIC FIBERS AND FIBROUS MINERALS

Moderator: Dr. Jon Konzen, Owens-Corning Fiberglas Corp.

Speakers: 16. Mortality Patterns Among Fibrous Glass Production Workers
Dr. Philip Enterline, University of Pittsburgh

17. Mortality Patterns and Occupational Exposures Among Mineral Wool Production Workers
Mr. Gregory O. Ness, NIOSH, Cincinnati

18. Workers Exposed to Wallastonite Through Mining & Milling
Dr. Brian Boehlecke

Panel Dr. Anders Englund, Bygghälsan, Stockholm

Discussion: Dr. Frank E. Lundin, Bureau of Radiological Health, FDA

Questions from the Audience

10:15 A.M. Coffee Break

Tuesday, December 6, 1977

10:30 A.M. SESSION V - TALCS CONTAMINATED WITH OTHER MINERALS

Moderator: Mr. Richard Lemen, University of Illinois

Speakers: 19. Morphological Characteristics of Amphibole Particles
Dr. William J. Campbell, U.S. Bureau of Mines

20. Occupational Exposures to Talcs Containing Asbestiform Minerals

Mr. John Dement, University of North Carolina

21. Respiratory Morbidity Among Miners and Millers of Asbestiform Talc

Dr. John Gamble, NIOSH, West Virginia

22. Mortality Patterns Among Miners and Millers of Asbestiform Talc

Dr. David Brown, NIOSH, Cincinnati

23. Stomach Cancer Among Rubber Workers: An Epidemiologic Investigation

Dr. Steve Blum, University of North Carolina

24. Biologic Tests of Tremolite in Hamsters

Dr. William Smith, Fairleigh Dickinson University

Panel Dr. Arthur Langer, Mt. Sinai School of Medicine

Discussion: Dr. Paul Kotin, Johns-Manville Corporation

Questions from the Audience

1:00 P.M. LUNCH

2:30 P.M. SESSION VI - NON-FIBROUS TALC

Moderator: Mr. Don Spatz, United Cement, Lime and Gypsum Workers

Speakers: 25. Mortality and Morbidity of Talc Miners and Millers in Italy
Dr. Giovanni Rubino, Institute of Occupational Medicine, Turin

26. Occupational Exposures to Non-Asbestiform Talc in Vermont
Ms. Maryanne Boundy, Harvard School of Public Health

27. Respiratory Morbidity Among Workers Exposed to Non-Asbestiform Talc

Dr. David Wegman, Harvard School of Public Health

28. Mortality Patterns Among Miners and Millers of Non-Asbestiform Talc

Ms. Sherry Selevan, NIOSH, Cincinnati

3:30 P.M. Coffee Break

29. Animal Model for Inhalation Exposure to Talc
Dr. J.C. Wagner, Llandough Hospital, Wales

30. Consumer Usage of Talc

Dr. Arthur Rohl, Mt. Sinai School of Medicine

Panel Dr. Hector Blejer, City of Hope Medical Center, Calif.

Discussion: Dr. George Wright, Consultant, Denver, Colorado

Questions from the Audience

5:30 P.M. ANNUAL SOEH BUSINESS MEETING

Wednesday, December 7, 1977

8:30 A.M. SESSION VII - NON-FIBROUS ORGANIC AND INORGANIC PARTICULATES

Moderator: Mr. James Wolfe, International Molders and Allied Workers Union

Speakers: 31. Mortality Patterns Among Foundry Molders and Coremakers
Ms. Betsy Egan, NIOSH, Cincinnati

32. Lung Cancer Mortality in a Steel Foundry
Dr. E.S. Gibson, Dominion Foundries and Steel, Ltd.

33. Mortality Study in Iron and Steel Foundries
Dr. Patricia Breslin, OSHA, Washington, D.C.

34. Occupational Morbidity Studies Among Aluminum Workers
Dr. Bertram W. Carnow, University of Illinois

9:30 A.M. Coffee Break

35. Cancer Mortality Among Workers in Beryllium Production Plants

Dr. T. F. Mancuso, University of Pittsburgh

36. Cancer and Respiratory Disease Risk Among Individuals in the Beryllium Case Registry

Dr. Peter Infante, NIOSH, Cincinnati

Panel Dr. Janette Sherman, Wayne State University

Discussion: Dr. Brian MacMahon, Harvard School of Public Health
Dr. J. William Lloyd, United Steelworkers of America

Questions from the Audience

11:30 A.M. LUNCH

1:00 P.M. SESSION VIII - HEALTH IMPLICATIONS AND GOVERNMENT RESPONSE

Moderator: Dr. Warren Muir, Environmental Protection Agency

Speakers: 37. OSHA Regulatory Action
Mr. Grover C. Wrenn, OSHA, Washington, D.C.

38. MESA Regulatory Action
Dr. Aurel Goodwin, Mining Enforcement and Safety Adm.

39. EPA Regulatory Action
(to be announced)

40. CPSC and Consumer Protection
Dr. Alan M. Ehrlich, Consumer Product Safety Commission

2:00 P.M. Coffee Break

41. FDA and Regulations Concerning Talc and Asbestos
Dr. Armand Casola

42. International Implications of Fibrous Materials - Export and Import Problems
Mr. Barry Castleman, Consultant, Office of Technology Assessment

Panel Dr. Robert Harris, Environmental Defense Fund

Discussion: Dr. Paul Kotin, Johns-Manville Corporation

Questions from the Audience

3:45 P.M. CONFERENCE SUMMATION BY CONFERENCE CO-CHAIRPERSON

Mr. John Dement, University of North Carolina

PROGRAM PARTICIPANTS

Henry A. Anderson, M.D.
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Associate Director, Toxic Chemicals Program,
Environmental Defense Fund, Washington, D.C.

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Technical Assistant, State of Illinois
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Epidemiologist, Industry-Wide Studies
Branch, NIOSH, Cincinnati

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Marvin Kuschner, M.D. Dean, School of Medicine S.U.N.Y. at Stony Brook, New York	Robert N. Sawyer, M.D. Head, Preventive and Occupational Medicine Yale University
Arthur Langer, Ph.D. Environmental Sciences Laboratory Mt. Sinai School of Medicine, New York	Patrick Sebastien, Ingenieur Hygieniste Direction Departementale des Affaires Sanitaires et Sociales, Paris
Nelson A. Leidel Chief, Technical Evaluation and Review Branch, NIOSH, Rockville	Sherry Selevan, Epidemiologist NIOSH, Cincinnati
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J. William Lloyd, Sc.D. Epidemiologist United Steelworkers of America	Raymond Shapiro, Ph.D. Ass't Director for Toxicology Coordination National Institute of Environmental Health Sciences, North Carolina
Judge Miles Lord U.S. District Court for Minnesota	Janette Sherman, M.D. Clinical Assistant Professor, Wayne State University, Department of Oncology
Frank E. Lundin, Jr., M.D., Dr.P.H. Chief, Epidemiologic Studies Program Division of Biological Effects, Bureau of Radiological Health, FDA, Rockville	William E. Smith, M.D. Director, Health Research Institute Fairleigh Dickinson University, Madison, N.J.
Brian MacMahon, M.D. Chairman, Department of Epidemiology Harvard School of Public Health	Don Spatz United Cement, Lime and Gypsum Workers
Thomas F. Mancuso, M.D. University of Pittsburgh, School of Public Health	John C. Wagner, M.D., FRC Path. Consultant Pathologist Medical Research Council, Pneumoconiosis Unit Penarth, S. Glamorgan, Wales
Arthur Morgan, B.Sc. Group Leader Inhalation Toxicology Atomic Energy Research Establishment Harwell, United Kingdom	Joseph Wagoner, S.D.Hyg. Special Ass't for Occupational Carcinogenesis Office of the Ass't Secretary of Labor for OSHA, Dept. of Labor, Washington, D.C.
Warren R. Muir, Ph.D. EPA, Washington, D.C.	David Weyman, M.D. Harvard School of Public Health
Gregory O. Ness, Epidemiologist NIOSH, Cincinnati	Alfred P. Wehner, D.M.D. Battelle Pacific Northwest Laboratories Richland, Washington
P. D. Pooley, Ph.D. Reader, Mineral Processing University College, Cardiff	James Wolfe Director, Research and Education International Molders and Allied Workers Union, Cincinnati
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CONFERENCE PLANNING COMMITTEE

Conference Cochairpersons: Mr. John Dement Mr. Richard Lemen
University of N.C. University of Illinois

Mr. Donald Spatz Dr. Jon Konzen
United Cement, Lime & Gypsum Owens-Corning Fiberglas Corp. ~
Workers

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Johns-Manville Corp. OSHA, Dept. of Labor

Dr. J. William Lloyd Dr. Lawrence Plumlee
United Steelworkers of America Environmental Protection Agency

Dr. Arthur Langer
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