

CONFERENCE TO REEVALUATE THE TOXICITY OF
VINYL CHLORIDE, POLYVINYL CHLORIDE AND
STRUCTURAL ANALOGUES

March 20-21, 1980

National Institutes of Health
Masur Auditorium
Building 10
Clinical Center
Bethesda, Maryland

Cosponsors

National Institutes of Environmental Health Sciences
National Institute for Occupational Safety and Health
Occupational Safety and Health Administration

Program Planning Committee

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Dr. Philip J. Landrigan
NIOSH, Cincinnati, Ohio

Dr. Raymond E. Shapiro
NIEHS, Research Triangle Park, North Carolina

Dr. Richard J. Waxweiler
NIOSH, Cincinnati, Ohio

Thursday, March 20, 1980

8:00 A.M. REGISTRATION

8:30 A.M. INTRODUCTORY REMARKS
Dr. David Rall, NIEHS

SESSION I - CARCINOGENESIS BIOASSAYS OF VINYL CHLORIDE
MONOMER

Chairperson: Dr. Umberto Saffiotti, NCI

8:45 A.M. 1. Carcinogenesis Bioassay of Vinyl Chloride
Monomer with Particular Reference to
Multiple Sites and Dosage Review
Dr. Caesar Maltoni, Institute of Oncology
and Tumor Center, Bologna

9:45 A.M. 2. Experimentally Induced Pulmonary Cancer
Dr. Y. Suzuki, Mt. Sinai Medical School

10:00 A.M. Discussion

10:15 A.M. Break

10:45 A.M. 3. The Role of Aging on Vinyl Chloride
Monomer - Induced Cancer
Dr. David Groth, NIOSH

11:00 A.M. 4. Carcinogenic Effects of Exposure to Vinyl
Chloride Monomer and Ethyl Alcohol on Rats
Dr. Martha Radike, University of Cincinnati

11:15 A.M. 5. Cancer Induction Following Single and Multiple
Exposures to a Constant Amount of Vinyl
Chloride Monomer
Dr. Robert Hehir, CPSC

SESSION II - TOXICOLOGY STUDIES OF POLYVINYL CHLORIDE

Chairperson: Dr. Peter Infante, OSHA

11:30 A.M. 6. Pneumoconiosis in Animals Exposed to Polyvinyl
Chloride Dust
Dr. David Groth, NIOSH

11:45 A.M. 7. Results of Carcinogenesis Bioassay of Polyvinyl
Chloride
Dr. Chris Wagner, BMRC, Penarth, Wales

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SESSION III - SPUTUM CYTOLOGY OF VINYL CHLORIDE WORKERS

Chairperson: Dr. Peter Infante, OSHA

12:00 P.M. 8. Results of Sputum Cytology Among Vinyl Chloride Polymerization and Polyvinyl Chloride Fabrication Workers
Dr. Caesar Maltoni, Institute of Oncology and Tumor Center, Bologna

12:15 P.M. Discussion

12:30 P.M. LUNCH

SESSION IV - MORTALITY STUDIES OF WORKERS EXPOSED TO VINYL CHLORIDE

Chairperson: Dr. Philip Landrigan, NIOSH

2:00 P.M. 9. Multiple Site Risk Analysis of Vinyl Chloride Related Cancer in Workers - Review
Dr. Peter Infante, OSHA

2:15 P.M. 10. Cohort Mortality Study of Vinyl Chloride Workers
Dr. H. Weber, Der Staatliche Geverbearzt, Fed. Deutch Republic

2:30 P.M. 11. Epidemiological Study of Vinyl Chloride Workers
Dr. Clark Cooper, Consultant

2:45 P.M. 12. Power Considerations in Epidemiologic Studies of Vinyl Chloride Workers
Dr. Jay Beaumont, NIOSH

3:00 P.M. Discussion

3:15 P.M. Break

SESSION V - LIVER AND BIOCHEMICAL CHANGES ASSOCIATED WITH VINYL CHLORIDE

Chairperson: Dr. David Groth, NIOSH

3:45 P.M. 13. Epidemiologic Review of Hepatic Angiosarcoma in the United States
Dr. Henry Falk, CDC

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4:00 P.M. 14. United Kingdom Angiosarcoma Registry
Dr. Peter Baxter, CDC

4:15 P.M. 15. Pathology of Vinyl Chloride Induced Liver
Lesions
Dr. Hans Popper, Mt. Sinai Medical School

4:30 P.M. 16. Liver Screening Tests for Vinyl Chloride
Exposed Workers
Dr. Carlo Tambero, University of Louisville

SESSION VI - INDUSTRIAL HYGIENE MEASUREMENTS OF POLYVINYL
CHLORIDE OPERATIONS

Chairperson: Mr. James Gideon, NIOSH

4:45 P.M. 17. Polyvinyl Chloride Processes and Products
Dr. R. Nick Wheeler, Union Carbide

5:00 P.M. 18. Characterization of Polyvinyl Chloride
Homopolymers, Copolymers and Additives
Mr. Jay Jones, NIOSH

5:15 P.M. Discussion

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SESSION VII - MORBIDITY AND MORTALITY STUDIES OF
POLYVINYL CHLORIDE EXPOSED WORKERS

Chairperson: Dr. R. Greenberg,
University of Louisville

- 8:30 A.M. 19. Mortality Among Polyvinyl Chloride
Fabricators
Dr. Leonard Chiazze, Georgetown
University
- 8:45 A.M. 20. Heart Disease in the Swedish Polyvinyl
Chloride Fabricating Industry
Dr. Gustavo Molina, Colombia
- 9:00 A.M. 21. An Epidemiological Study of Respiratory
Disease in United Kingdom Workers Exposed
to Polyvinyl Chloride Dust
Dr. Anthony Seaton, University of
Edinberg
- 9:15 A.M. 22. Polyvinyl Chloride Dust Induced
Pneumoconiosis
Dr. A. Arnaud, Marseille, France
- 9:30 A.M. 23. An Epidemiologic Study of Pneumoconiosis
in the Italian Polyvinyl Chloride Industry
Dr. Guiseppe Mastrangelo, Padova, Italy
- 9:45 A.M. 24. A Case-Control Study of Lung Cancer
Among Vinyl Chloride-Polyvinyl Chloride
Workers
Dr. Richard Waxweiler, NIOSH
- 10:00 A.M. 25. Review of Pulmonary Effects of Polyvinyl
Chloride Exposure
Dr. Ruth Lilis, Mt. Sinai Medical School
- 10:15 A.M. Discussion
- 10:30 A.M. Break

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SESSION VIII - REPRODUCTIVE EFFECTS OF VINYL CHLORIDE

Chairperson: Dr. James Wilson, University
of Cincinnati

- 11:00 A.M. 26. Transplacental Teratogenic Effects of
Vinyl Chloride in Experimental Animals
Dr. Jackie John, DOW Midland
- 11:15 A.M. 27. Transplacental Carcinogenic Effects
Dr. Jerry Rice, NCI
- 11:30 A.M. 28. Mutagenic Effects of Vinyl Chloride
Dr. Jill Fabricant, University of
Texas, Galveston
- 11:45 A.M. 29. Power Considerations in Studies of
Reproductive Effects Associated with
Vinyl Chloride and Some Structural
Analogues
Ms. Maureen Hatch, Columbia University
- 12:00 P.M. Discussion
- 12:30 P.M. LUNCH

SESSION IX - ENVIRONMENTAL EXPOSURE TO VINYL CHLORIDE-
POLYVINYL CHLORIDE AND LIVER ANGIOSARCOMA

Chairperson: Dr. Pier Bertazzi, Institute
of Occupational Health, Milan

- 2:00 P.M. 30. Fugitive Emissions of Vinyl Chloride-
Polyvinyl Chloride
Speaker to be Announced
- 2:15 P.M. 31. Case-Control Study of Liver Angiosarcoma
Among Residents in New York
Dr. Nicholas Vianna, N.Y.S. Department
of Health

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SESSION X - CARCINOGENICITY OF SOME STRUCTURAL ANALOGUES
OF VINYL CHLORIDE

Chairperson: Dr. Kim Hooper, University of
California, Berkeley

- 2:30 P.M. 32. Comparative Pathology of Vinyl Chloride
and Vinyl Bromide Induced Liver Pathology
in Animals
Dr. William Busey, Experimental
Pathology Laboratories
- 2:45 P.M. 33. Review of Experimental Carcinogenesis
of Vinyl Chloride Related Compounds
Dr. Ken Chu, NCI
- 3:00 P.M. 34. Review of Epidemiologic Study Results of
Vinyl Chloride Related Compounds
Ms. Rosanne Apfeldorf, OSHA
- 3:15 P.M. Discussion
- 3:30 P.M. Break

SESSION XI - RESEARCH NEEDS AND PUBLIC HEALTH INTERVENTION

Chairperson: Dr. Anthony Robbins, NIOSH

Panel Discussion:

- 4:00 P.M. 35. Dr. Dale Haddis, Center for Policy
Alternatives, MIT
- 4:15 P.M. 36. Mr. Steve Wodka, OCAW
- 4:30 P.M. 37. Dr. Maurice Johnson, B.F. Goodrich
- 4:45 P.M. 38. Dr. Irving Selikoff, Mt. Sinai Medical
School
- 5:00 P.M. 39. Dr. Joseph Wagoner, EDF
- 5:15 P.M. Discussion

Proceedings from the Conference will be published.