

NIH
Lyman W. Hong
File/Vinyl Chloride

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**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**

R&S 141413

**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**

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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. Carcinogenicity Bioassays of Vinyl Chloride Monomer: A Model of Risk Assessment on Experimental Basis
Dr. Cesare 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 Cancer Induced by Vinyl Chloride Monomer
Dr. David Groth, NIOSH

11:00 A.M. 4. Carcinogenic Effects of Exposure to Vinyl Chloride Monomer and Ethyl Alcohol on Rats
Dr. Martha Radtke, 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 Workers Exposed to Vinyl Chloride Monomer and to Polyvinyl Chloride
Dr. Cesare 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. ^{Morbidity and} Cohort Mortality Study of Vinyl Chloride Workers
Dr. H. Weber, Der Staatliche Gewerbearzt
Fed. Republic Germany

- 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 Tamburro, 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
WORKERS EXPOSED TO POLYVINYL CHLORIDE**

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 Edinburg
- 9:15 A.M. 22. Pneumoconiosis Induced by Polyvinyl Chloride Dust
Dr. A. Arnaud, Marseille, France

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- 9:30 A.M. 23. An Epidemiologic Study of Pneumoconiosis in the Italian Polyvinyl Chloride Industry
Dr. Giuseppe 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 Lillis, Mt. Sinai Medical School
- 10:15 A.M. Discussion
- 10:30 A.M. Break

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~~ *Fetal Susceptibility to Xenobiotic Chemicals including VCM* 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

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- 2:00 P.M. 30. Fugitive Emissions of Vinyl Chloride-Polyvinyl Chloride
Dr. Susan R. Wyatt, EPA
- 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

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

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5:00 P.M. 39. Dr. Joseph Wagoner, EDF

5:15 P.M. Discussion

Proceedings from the Conference will be published

Program Planning Committee

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