

FRIDAY, NOVEMBER 1, 1974

**AFTERNOON SESSION - PROTECTIVE DEVICES &
PROCESS OPTIMIZATION**

Moderator: *David W. Anderson,*
Coating Division Manager
Oulmet Corporation

- 1:30 p.m. **"Respiratory Protection for Vinyl Chloride Monomer"**
Ronald Voisard, Mgr. Distributor Development & Tech. Service
Scott Aviation, Division of A-T-O, Inc.

Abstract: This paper will discuss the equipment requirements relative to the Emergency Temporary Standard and the Permanent Standard by OSHA on VCM. Mr. Voisard will discuss the degrees of protection afforded by the various types of respirators, the trade-off associated with each, the equipment serviceability and costs.

- 2:00 p.m. **"Respiratory Protective Devices and Protective Clothing Used in Areas of VCM Manufacture"**
Karl Oelfke, Production Manager
Dow Chemical U.S.A.

Abstract: Mr. Oelfke will discuss information on Engineering Controls and Manufacturing Practices in both production of VCM and copolymers of vinyl chloride. He will describe possible areas of VCM exposure and the protective clothing and/or respiratory protection needed in these areas. Advantages and disadvantages of the different types of protection will be covered.

- 2:30 p.m. **"Protective Techniques for VCM in Mixing and Extruding Operations"**
Dr. Maurice Oberg, Senior Staff
Industrial Hygienist
LFE Environmental Systems

Abstract: A variety of manufacturing facilities using PVC resins were surveyed for airborne concentration of VCM. Results of this survey were presented for both lab and large scale operations and include storage, handling, mixing, and extruding. This paper deals with corrective measures and attempts to answer: What is available today? What is being used? How long does it last? What does it cost?

- 3:00 p.m. **"Controlling and Reducing Monomer Content in PVC Formulations Through Advanced Compounding Techniques"**
Ronald Adams, Chief Engineer
Werner & Pfleiderer Corporation

Abstract: Mr. Adams will discuss methods of reducing VCM content in both rigid and plasticized PVC formulations through advanced compounding techniques. An analysis of typical PVC formulations will be made defining all processing stages where monomer might be set free, including pre-blending, melt compounding, pelletizing, pellet drying, conveying, storage and remelting during final conversion. The possibility of eliminating VCM by thermal or auto-catalytic decomposition will be discussed.

- 3:30 p.m. **Summary Highlights of the Conference**
Dr. Daniel S. Dixler
Keller and Heckman, Washington, D.C.

Extra Paper "Vinyl Chloride Analysis in PVC Processing Plants"
Paul A. Ketterer, Group Leader Analytical
Tenneco Chemicals, Inc.

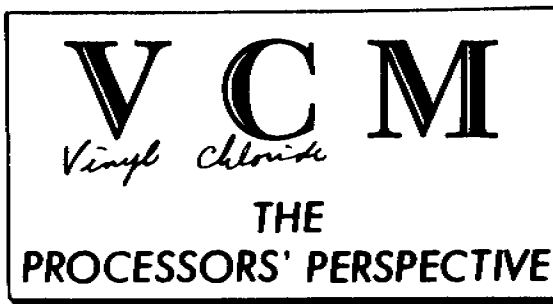
Mr. Ketterer will be on the Panel Friday, 10:30 a.m.



OCT 28 1974

SOCIETY OF PLASTICS ENGINEERS, INC.

Palisades Section • Vinyl Plastics Division



OCTOBER 31 - NOVEMBER 1, 1974

THURSDAY - FRIDAY



REGIONAL TECHNICAL CONFERENCE

"THE MOST IMPORTANT RETEC EVER SPONSORED BY SPE"

OLI 451

6 - 9 p.m. REGISTRATION. Regency Foyer, 3rd Floor

12:15 p.m. LUNCHEON — Imperial Ballroom B
Guest Speaker: John H. Myers, President SPE
 General Manager, Research & Development
 Delaware Plastics Division
 Container Corp. of America

THURSDAY, OCTOBER 31, 1974

AFTERNOON SESSION

2:00 p.m. "VCM - The EPA Viewpoint"
Glenn E. Schweitzer, Director
Office of Toxic Substances
U.S. Environmental Protection Agency
Washington, D.C.

Abstract: Mr. Schweitzer's presentation will cover recent EPA activities relative to VCM. It also should provide insight into what industry should now be doing or planning to do in order to control VCM as a pollutant.

2:30 p.m. "VCM - The FDA Viewpoint."
Gerard L. McCowin, Assistant to the Director
Division of Food and Color Additives
Food and Drug Administration (FDA)
Washington, D.C.

Abstract: Current involvement by FDA will be covered, along with actions taken or pending. This will include a discussion of the Food Additives Regulations as they relate to vinyl chloride and what they require of the processor.

ANALYTICAL DEVICES & METHODS

Moderator: Dr. Gerald J. Mantell,
Director of Research
Air Products & Chemicals, Inc.

3:00 p.m. "Determination of Vinyl Chloride in Workplace Air"

Dr. Robert H. Hill, Jr., Chemist
Department of Health, Education & Welfare
Public Health Service
Physical & Chemical Analysis Branch, DLCD
National Institute for Occupational Safety
& Health (NIOSH) Cincinnati, Ohio

Abstract: The method used by NIOSH for determination of VCM in workplace air is discussed. Air from the worker's breathing zone is drawn through a tube containing activated charcoal and the vinyl chloride is trapped. For analysis, the vinyl chloride is desorbed from the charcoal with carbon disulfide and is subsequently determined by gas chromatography.

3:30 p.m. "Monitoring Methods for VCM at Western Electric"
Dr. Frank M. Zado & Dr. J.O. Rasmuson
Western Electric Research Center

Abstract: Vinyl chloride (VCM) monitoring in industrial atmospheres at Western Electric can be accomplished with an automated VC analyzer. This instrument consists of a portable gas chromatograph equipped with a flame ionization detector and a control module providing capabilities for automated and unattended operation. The highly efficient GC continuously provides interference free measurement of VCM concentrations from less than 0.1 ppm in cycles of 4 minutes. Less frequent measurements, if desired, are simply dialed in.

4:00 p.m. "Analysis for VCM in PVC Resins, Compounds and Extractants"
Ivor L. Simmons, Manager
Central Analytical Dept. - M & T Chemicals, Inc.

Abstract: The gas chromatographic methods for the determination of VCM in PVC Resins, compounds and liquids which have been in contact with finished PVC articles are presented. The preparation of standards and samples are discussed in detail. The problems of sensitivity and interferences and alternative means of detection are presented especially in the area of liquid extractants.

4:30 p.m. - 6:00 p.m. Industry Reception - Cash Bar

Registration
Palisades Section/Vinyl Plastics Division - REGIONAL TECHNICAL CONFERENCE - Society of Plastics Engineers, Inc.
"VCM - THE PROCESSORS' PERSPECTIVE"

Thursday-Friday, October 31 - November 1, 1974 - AMERICANA HOTEL, 7th Ave. & 52nd St., N.Y.C.

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ADVANCE REGISTRATIONS OR REFUNDS WILL BE HONORED ONLY IF POSTMARKED BY OCTOBER 23, 1974

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FRIDAY, NOVEMBER 1, 1974

7:30 a.m. REGISTRATION - Imperial Foyer, 2nd Floor
MORNING SESSION - ANALYTICAL DEVICES & METHODS

Moderator - Dr. Gerald J. Mantell

- 8:45 a.m. "Monitoring Ambient Vinyl Chloride with Infrared Analyzers"**
Paul A. Wilke, Jr., President
Donald S. Lavery
Wilks Scientific Corporation

Abstract: VCM has a characteristic infrared spectrum. Thus, with recently developed selective filter infrared analyzers equipped with long-path absorption cells, it can be detected in the atmosphere and measured quantitatively in the low parts per million range. The infrared method has high specificity, provides nearly instantaneous measurements and the equipment is simple, requiring a minimum of service and maintenance. Both portable and continuous, multi-sample point infrared VCM analyzers will be described.

- 9:15 a.m. "A Continuous Monitor for Vinyl Chloride Monomer, Based Upon an Impregnated, Paper Tape"**
Byron A. Denenberg, Vice-President
MDA Scientific, Inc.

Abstract: A self-contained, specific, low-cost, semi-portable, continuous monitor for VCM has been developed. Model 7070 is based upon the use of an impregnated paper tape, supplied in convenient cassettes which produces a color reaction when exposed to VCM. Continuous recording and both audio and visual alarms are incorporated into the basic design. The monitor and the color reactions will be discussed.

- 9:45 a.m. "VCM - What to Expect During an OSHA Inspection"**
Otto White, Jr., Regional Industrial Hygienist
U.S. Department of Labor
Occupational Safety and Health Administration
New York, N.Y.

Abstract: An in-depth view of the typical procedures utilized during an OSHA inspection to determine compliance to the Vinyl Chloride Standard, 29 CFR 1910.93q. Discussion includes: recognition and identification of potential vinyl chloride sources, review of vinyl chloride monitoring program and records, evaluation of control methods used to limit airborne concentration of vinyl chloride, assessment of respiratory protection program and extent of employees knowledge in relation to exposures in excess of the standard and observation of monitoring.

- 10:15 a.m. Coffee Break**

- 10:30 a.m. PANEL SESSION: Discussion of questions relative to VCM. Sample Collection and analysis.**

- 11:15 a.m. "VCM - Current European Status"**
(Speaker to be announced)

5 p.m.

LUNCHEON - Imperial Ballroom B