

CONFIDENTIAL

Subject to Protective Order in  
Ross v. Conoco, Inc., No. 90-4837  
14th Judicial District Court  
E. Calcasieu Parish, Louisiana

Manufacturing Chemists Association

Minutes of Meeting

TECHNICAL PANEL ON VINYL CHLORIDE RESEARCH

Crystal City Marriott Hotel

Arlington, Va.

April 28, 1976

Chairman Torkelson convened the meeting at 9:00 a.m.  
The record of attendance is:

MEMBERS PRESENT:

|                           |                                     |
|---------------------------|-------------------------------------|
| T. R. Torkelson, Chairman | The Dow Chemical Company            |
| T. R. Aalto               | Tenneco Chemicals, Inc.             |
| R. J. Abramowitz          | Hooker Chemicals & Plastics Corp.   |
| Z. G. Bell, Jr.           | PPG Industries, Inc.                |
| O. P. Cohen               | Great American Chemical Corporation |
| (for W. A. Fuhrman)       |                                     |
| D. E. Cooper              | Ethyl Corporation                   |
| (for R. K. Hinderer)      |                                     |
| R. L. Gibson              | Gulf Oil Corporation                |
| W. D. Harris              | UNIROYAL Inc.                       |
| G. K. Hatfield            | Diamond Shamrock Corporation        |
| (for R. W. McBurney)      |                                     |
| M. N. Johnson             | B. F. Goodrich Company              |
| F. Kennedy                | Continental Oil Company             |
| W. C. Koch                | Allied Chemical Corporation         |
| R. A. Kuna                | Exxon Corporation                   |
| (for R. E. Eckardt)       |                                     |
| H. L. Kusnetz             | Shell Oil Company                   |
| R. W. Laundrie            | The General Tire & Rubber Company   |
| M. W. Palshaw             | Stauffer Chemical Company           |
| (for A. R. Lindquist)     |                                     |
| R. A. Park                | Firestone Plastics Co.              |
| (for R. S. Brookman)      |                                     |
| H. A. Russell             | The Pantasote Company               |
| H. L. Schmidt, Jr.        | Borden Chemical                     |
| W. M. Smith               | Air Products & Chemicals, Inc.      |
| J. W. Walker              | Certain-Teed Products Corp.         |
| R. N. Wheeler             | Union Carbide Corporation           |
| H. M. Zimmerman           | Georgia-Pacific Corporation         |
| M. Freifeld               | MCA Staff                           |

MEMBERS ABSENT:

B. W. Duck  
J. E. Ertel  
M. R. Gasque  
C. A. Johnson  
S. K. Law  
A. B. Magram  
G. Roush

British Petroleum Co. Ltd.  
Robintech Incorporated  
Olin Corporation  
The Goodyear Tire & Rubber Company  
Keysor-Century Corporation  
W. R. Grace & Co.  
Monsanto Company

GUESTS PRESENT:

W. R. Gaffey  
T. J. Gilroy  
R. V. Johnston  
M. L. Keplinger  
E. A. Ledet  
J. J. Mantell  
B. A. Schwetz  
K. L. Spalding  
F. M. Toca  
P. G. Watanabe

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Equitable Environmental Health, Inc.  
MCA Staff  
The Dow Chemical Company  
Industrial BIO-TEST Laboratories, Inc.  
Borden Chemical  
Air Products & Chemicals, Inc.  
The Dow Chemical Company  
Shell Oil Company  
Tenneco Chemicals, Inc.  
The Dow Chemical Company

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1. Oral Reports by Contractors

Presentations were made as follows:

TOPICSPEAKER

Teratology

Dr. B. A. Schwetz  
The Dow Chemical Company

Metabolism

Dr. P. G. Watanabe  
The Dow Chemical Company

Animal Studies

Dr. M. L. Keplinger  
Industrial BIO-TEST Laboratories, Inc.

Mutagenetic Work

Dr. R. V. Johnston  
The Dow Chemical Company

Epidemiology

Dr. W. R. Gaffey  
Equitable Environmental Health, Inc.

Dr. Johnston's work was reported here although not

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not a part of the MCA project since it is related to the IBT studies.

Dr. Keplinger's talk was substantially the same as the one to be given at the American Industrial Hygienists Association meeting the week of May 17 in Atlanta. The suggestion was made that the discussion on investigating the effect of contaminated food should be clarified.

All of the work described is done or nearing completion. Summaries of the presentations will be distributed to the Panel.

## 2. Proposals for Future Research

### 2.1 Birth Defects

The recommendation of the Research Coordinators, reported by Dr. Torkelson, was to defer action until the results of the study currently underway by The Center for Disease Control are known. The Panel accepted this recommendation.

### 2.2 Additional Metabolic Work

Overwhelming approval by the Panel in a letter ballot to recommend the Dow protocol of February 5 to management contacts was reported by the Project Manager. Among the thirty companies supporting the VC project, only two indicated hesitation or objection to proceeding with this work. Following a very brief discussion, the action recommended in the ballot was sustained and management contacts will be asked to support the additional metabolic investigations expected to take about one year and to cost \$115,000 (plus contingency funds and administrative expenses as necessary).

### 2.3 University of Louisville

Dr. Torkelson outlined the Research Coordinator's recommendation for favorable Panel action on the proposal outlined in Dr. Tamburro's letter of April 20. It involves the study of immunological systems and electron microscopic evaluation of liver tissue. A primary objective of the work is to develop new diagnostic tools to predict disease resulting from VC exposure. The National Cancer Institute is supporting Dr. Tamburro's work on the application of known methods for the diagnosis and treatment of VC-related health problems in workers. A sense of urgency was relayed by Dr. Torkelson if Dr. Tamburro's staff is to be held together.

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The level of funding requested for this project is about \$235,000 per year with possible alternate funding of \$200,000 per year (by reducing indirect cost). Since the full Panel has not yet seen the Tamburro proposal (only the Research Coordinators have) and the matter is urgent, the decision was made to vote on supporting this research for one year. This was with the understanding that once the full Panel had a chance to review the proposal it would probably want to support this work for an additional two years.

On motion duly made and seconded the Panel then voted (sixteen to one) to recommend to management contacts that the University of Louisville proposal be supported at the rate of \$200,000 for the first year with contingency funds and administrative expenses as needed recognizing that similar requests will probably be made in the next two years so that continuity of the effort can be maintained.

3. Minutes of Last Meeting

Minutes of the December 11, 1975 Panel meeting were approved as distributed.

4. Financial Statement

A financial statement dated April 1 is appended.

5. Public Relations

The sentiment of the Panel was that there was no need for a news release or other notification of this meeting outside of MCA. Nearly all of the material covered had been sent to appropriate government agencies in the form of reports. Furthermore, for those studies that were not yet finished, completion of the work and issuance of the reports were expected very shortly. These will be made available to government personnel in the usual way and in addition it is expected that results will be published in a suitable technical journal.

6. Selection of Vice Chairman

Acting on the recommendation of the Research Coordinators, the Panel voted unanimously for Dr. W. Mayo Smith as Vice Chairman.

7. Next Meeting

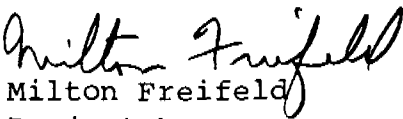
This was left to the discretion of the Chairman.

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The meeting was adjourned at 2:20 p.m.

  
Milton Freifeld  
Project Manager

Minutes Subject to Approval

MF:ec  
May 22, 1976

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# ATTENDANCE SHEET

(PLEASE PRINT)

COMMITTEE:

Vinyl Chloride  
Technical Panel

DATE:

April 21, 1976

IF NOT PREVIOUSLY SUBMITTED FOR THIS COMMITTEE'S RECORDS,  
PLEASE ALSO COMPLETE THE FOLLOWING:

| R. or MR. | NAME            | COMPANY                 | TITLE               | ADDRESS                                | TELEPHONE NO. |
|-----------|-----------------|-------------------------|---------------------|----------------------------------------|---------------|
| Dr.       | W.D. Harris     | Uniroyal, Inc           |                     |                                        |               |
|           | R.W. LAUNDIE    | GENERAL TIRE            |                     |                                        |               |
| MR.       | R.J. AZRAMOWITZ | HOOVER CHEMICAL         | TECHNICAL DIRECTOR  | RIVER ROAD<br>BURLINGTON, N.J. 08016   | 609-499-2300  |
| DR        | W. PAUL COITEN  | Great American Chemical | V.P.                | 650 WATER ST.<br>FITCHBURG, Mass 01420 | 617-343-6573  |
| Dr.       | D.E. Cooper     | Ethyl Corporation       | Env. Health         | Baton Rouge, La                        | 504-388-7105  |
| MR.       | K.L. SPALDING   | SHELL CHEM              | Mgr.-Vinyl Chloride | One Shell Plaza-Houston, Tx.           | 713-220-4483  |
|           |                 |                         |                     |                                        |               |
|           |                 |                         |                     |                                        |               |

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# ATTENDANCE SHEET

(PLEASE PRINT)

COMMITTEE: Vinyl Chloride  
Technical Panel

DATE: April 28, 1976

IF NOT PREVIOUSLY SUBMITTED FOR THIS COMMITTEE'S RECORDS,  
PLEASE ALSO COMPLETE THE FOLLOWING:

| MR. OR MS. | NAME                | COMPANY               | TITLE                                               | ADDRESS                                                               | TELEPHONE NO. |
|------------|---------------------|-----------------------|-----------------------------------------------------|-----------------------------------------------------------------------|---------------|
|            | Harry A. Nussen     | PANTASOTE CO          | VICE CHAIRMAN + TECHN                               | P.O. 1800 GREENWICH CONN.                                             | 203-661-0400  |
| ✓          | JOHN W. WALKER      | CERTAINTEED PRODC-    | DIR. OF MANUFACTURING                               | P.O. 860 VALLEY FORGE PA 19482                                        | 215-687-5000  |
| Ms         | Mary Wagner Balshaw | Stauffer Chemical Co. | Epidemiologist/Administrator<br>Occupational Health | Westport, Conn.                                                       | 203-222-3239  |
|            | Howard L. Kusnetz   | SHELL OIL Co.         | Mgr. Safety & Health<br>(MHC)                       | Box 2463<br>Houston TX 77001                                          | 713-220-5604  |
|            | T R Torkelson       | The Dow Chem Co       | Occupational Health<br>Associate                    | 2030 Dow Center<br>Corporate Medical Department<br>Midland Mich 48640 | 517 636-5197  |
|            | H. Kent Halperin    | Diamond Shamrock      | Toxicologist                                        | 1100 Superior Ave.<br>Cleveland, OH 44114                             | 216-694-4365  |
| L          | Harry M. Zimmerman  | Georgia-Pacific       | Mgr. Tech. Services                                 | P.O. Box 629<br>Pldquening, LA 70764                                  | 504 687-6321  |

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A T T E N D A N ' S H E E T

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COMMITTEE: Vinyl Chloride  
Technical Panel

DATE: April 28, 1976

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PLEASE ALSO COMPLETE THE FOLLOWING:

| R. or MR. | NAME                | COMPANY           | TITLE                    | ADDRESS                                 | TELEPHONE NO. |
|-----------|---------------------|-------------------|--------------------------|-----------------------------------------|---------------|
| X         | T. R. Ayth          | Tenneco Chem.     |                          |                                         |               |
|           | LEO G. BELL         | BIG               |                          |                                         |               |
|           | Frederick H. Teco   | Tenneco Chemicals | Manager Industrial Neg.  | Scottdale, N.J. 07662                   |               |
|           | HENRY L. SCHMIDT JR | BORDEN CHEM       |                          |                                         |               |
|           | R. V. WHEELER       | UNION CARBIDE     |                          |                                         |               |
|           | T. J. Gilroy        | MCA               |                          |                                         |               |
|           | E. A. LEDET         | BORDEN CHEMICAL   | MGR. SAF, SEC. CO HEALTH | 180 E. BROAD ST<br>COLUMBUS, OHIO 43215 | 614/225-4813  |
|           | Mayo Smith          | Air Products      |                          |                                         |               |
|           | M. N. Johnson       | B. F. Goodrich    |                          |                                         |               |
| C         | M. L. KEPLINGER     | BIO-TEST          |                          |                                         |               |

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# ATTENDANCE SHEET

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COMMITTEE:

*Vaughn Monte  
Technical Panel*

DATE:

*April 28, 1976*

IF NOT PREVIOUSLY SUBMITTED FOR THIS COMMITTEE'S RECORDS,  
PLEASE ALSO COMPLETE THE FOLLOWING:

| R. or MR.    | NAME                      | COMPANY                     | TITLE                              | ADDRESS                                                    | TELEPHONE NO.  |
|--------------|---------------------------|-----------------------------|------------------------------------|------------------------------------------------------------|----------------|
| <del>✓</del> | <del>HARRY H. ROSEN</del> | <del>PANTASITE Co.</del>    |                                    |                                                            |                |
|              | R.V. JOHNSTON             | DOW                         |                                    |                                                            |                |
| ✓            | W.R. GAFFEY               | STANFORD RESEARCH INSTITUTE | SENIOR EPIDEMIOLOGIST              | 333 RAVENSWOOD AVE.<br>MENLO PARK,<br>CALIF.               | (415) 326-6200 |
|              | F. KENNEDY                | Conoco                      |                                    |                                                            |                |
|              | P.G. Watanabe             | Dow Chemical                |                                    | Toxicology Laboratory Bldg. 1803 Midland, Mich             | 517-636-1313   |
| ✓            | W.C. KOCH                 | Allied Chem                 | Mgr. Occ. Health -<br>Prod. Safety | Allied Chem.<br>P.O. Box 1139 R<br>MORRIS TOWN, N.J. 07960 | 201/455-3042   |
|              | G.J. MANTILL              | AIR PRODUCTS                | Director Marketing                 | P.O. Box 531<br>Allentown PA 18105                         | 215-395-7656   |
|              | R.A. KUNA                 | Effco Corp.                 | Toxicologist                       | P.O. Box 45<br>Linden, N.J.<br>07036                       | 201/474-2869   |
| ✓            | ROY L. GIBSON             | Gulf Oil Corp.              | Associate Mgr. Dir. Dir.           | Health Department, Gulf Bldg, Pittsburgh, Pa.              | 391-2400       |
| ✓            | B.A. Schwetz              | Dow Chemical                |                                    |                                                            |                |
| C. ✓         | RA Park                   | Firestone Plastics Co.      | Special Project Coordinator        | Box 699<br>Pottstown, Pa. 19464                            | 215/326-2000   |

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