



VINYL INSTITUTE  
EXECUTIVE BOARD MEETING  
DECEMBER 12, 1991

CTL009605

## Available from the Vinyl Institute

9/91

*Note: Individual copies of all items listed are available free of charge to employees of Vinyl Institute member companies unless otherwise noted. There may be a nominal charge for multiple copies or large quantities of some items. For more information, or to order materials, contact Ms. Pat Benkner at the Vinyl Institute (201) 890-9299.*

### General Information:

*"Vinyl: Serving More People, In More Products, Made By More Industries, Than Almost Any Other Material Today" – 16-page four color brochure describing how vinyl is made and used. Highlights five major markets with testimonials from industry customers.*

*"Polyvinyl Chloride: An Overview of the Role Chlorine Plays in this Plastic Material" – Ten-page white paper with references. Discusses the major topics associated with the manufacture and use of vinyl. A resource document designed for use by VI members.*

*"We're Glad You Asked: Answers to the Most Commonly Asked Questions About Vinyl" – Eight-panel wallet card. A condensed version of the white paper for use with customers, suppliers, community residents, etc.*

*"Facts About Working with PVC" – 12-page pamphlet designed for PVC plant workers and convertors.*

*"Facts About Vinyl Chloride Monomer – 12-page pamphlet designed for VCM/PVC plant workers and plant community residents.*

*"Community Health Effects of Vinyl Chloride" – 13-page Vinyl Institute technical paper with references.*

*"Potential Effects of Vinyl Chloride on Human Offspring" – 10-page VI technical paper with references.*

*"Recommended Guidelines for Vinyl Chloride: Storage, Shipping and Handling" – 10-page VI technical paper.*

*"On Potential Sources of Vinyl Chloride in Landfills and Groundwater" – 13-page technical paper.*

*Builder Brochures – A series of four, four-page, four-color direct mail pieces promoting the attributes of vinyl building products of most importance to builders.*

### Solid Waste/Environmental:

*Solid Waste Information Kit – Pocket folder containing a basic fact sheet, press releases announcing availability of other materials, several trade magazine article reprints, latest issue of Environmental Briefs newsletter, information about the VI Environmental Resource Center, VI member list, backgrounder about the Vinyl Institute.*

*National Vinyl Environmental Resource Center Rolodex Card – Promotes VI 800-number and hotline.*

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"End Use Markets for Recycled Polyvinyl Chloride" – *Research study prepared by University of Toledo. \$5.00 per copy for VI members.*

"Directory of Companies Involved in the Recycling of Vinyl (PVC) Plastics," Second Edition – *20-page pamphlet.*

"Vinyl Plastics and Solid Waste: Some Basic Facts" – *Two-page fact sheet.\**

"PVC Recycling: Landfill Fodder? It Doesn't Have to Be" – *Reprinted from the March 1989 issue of Modern Plastics magazine.\**

"Earth Day 1990" – *Reprinted from the April 22, 1990 issue of Plastics World magazine.*

"From Sortation to Marketing, the Vinyl Loop Gets Stronger" – *Reprinted from the March 1990 issue of Recycling Today magazine.\**

"Vinyl Recycling: Often Asked Questions" – *Reprinted from the February 1991 issue of Public Works.\**

"NRT Process Sorts PVC From Other Plastics" – *Reprinted from the November 12, 1990 issue of Plastics News.\**

"Environmental Briefs" – *Quarterly newsletter published by the Vinyl Institute. Free subscriptions available to VI members, customers and others by request to the VI office.\**

"Vinyl Institute/NRT Vinyl Separator" – *3.25 min. videotape. \$10 charge for VI members.*

\* Available separately or as part of Solid Waste Information Kit.

#### **Electrical Market/Combustibility/Toxicity:**

"Vinyl: Material of Choice for Electrical Applications" – *Pocket folder containing Institute's "Vinyl" brochure, "Wired for Safety" brochure, "10 Reasons" brochure, fire technical paper, various ad and article reprints, background on the VI's Electrical Materials Council, three "Electrical Perspectives" fact sheets and various technical papers given by VI members.*

"Electrical Connection" – *Periodic newsletter published by the Institute's Electrical Materials Council. Free subscriptions available to VI members, customers and others by request to the VI office.\**

"PVC Electrical Non-Metallic Tubing vs. Electrical Metallic Tubing: A Cost/Benefit Comparison" – *Four-page executive summary of a study conducted on behalf of the Vinyl Institute.\**

"Wired for Safety with Vinyl Electrical Materials" – *Eight-page four-color brochure.\**

"Ten Reasons to Rely on Vinyl, the World's Leading Electrical Material" – *Six-panel pamphlet (printed on recycled rigid vinyl sheet).\**

"Vinyl: An Enlightening Look at the 50-Year History of the World's Leading Electrical Material" – *Ten-page background with references and key milestones.*

"Fire Properties of Polyvinyl Chloride" – Eight-page Vinyl Institute technical paper with references.\*

"Electrical Perspectives" – Three fact sheet covering the safety, performance and preference of vinyl in electrical applications, produced by the Vinyl Institute.\*

"Vinyl's Fire Performance: The Perception and Reality" -- Article by Roy Gottesman, reprinted from the August 1990 issue of EC&M magazine.\*

"An Evaluation of the Performance Properties of Poly(vinyl chloride) Wire and Cable Compounds for Severe Service Applications" – article by VI members given at the November 1989 Wire Symposium, reprinted from Wire Journal.\*

"Update on Smoke Corrosivity" – Paper presented on behalf of the Vinyl Institute at the 1990 Wire and Cable Symposium.\*

"General Principles of Fire Hazard and the Role of Smoke Toxicity" -- Article authored by Marcelo Hirschler, reprinted from the American Chemical Society Symposium Series No. 425.\*

"Fire Hazard in a Room Due to a Fire Starting in a Plenum: Effect of Polyvinyl Chloride Wire Coating" – Article authored by BFGoodrich, reprinted from the American Chemical Society Symposium Series No. 425.\*

"The Toxicity of Hydrogen Chloride and of the Smoke Generated by Polyvinyl Chloride, Including Effects on Various Animal Species, and the Implications for Fire Safety" – Article authored by BFGoodrich, reprinted from "The Toxicity of Smoke."\*

"A USA Approach to Combustion Toxicity of Cables" – Authored by AT&T Bell Laboratories and Anderson Laboratories Inc., reprinted from Vol. 15, No. 3 of Plastics, Rubber and Composites Processing and Applications magazine.\*

\* Available separately, or as part of the Electrical Materials Council information kit.

#### Pipe Market/Water Integrity:

"PVC Pipe For All The Right Reasons" – Illustrated pocket folder with promotional copy also containing Institute's "Vinyl" brochure, assorted ad reprints, case histories, technical bibliography, drinking water technical paper and background on the VI Pipe Resource Organization.

"PVC Pipe Delivers!" – Series of six ad reprints as they appeared in AWWA Journal. Each features a different testimonial from an independent expert and discusses a different attribute of PVC pipe.\*

"PVC Pipe Resource Report" -- Series of seven newspaper-style case histories developed in cooperation with Uni-Bell PVC Pipe Association. Each features a different installation of PVC large diameter pipe.\*

"PVC Drain, Waste and Vent Pipe vs. Cast Iron Soil Pipe: A Cost/Benefit Comparison" – Four-page executive summary of a study conducted on behalf of the Vinyl Institute.\*

"PVC vs. Copper Domestic Hot & Cold Water Systems: A Cost/Benefit Comparison" -- Four-page executive summary of a study conducted on behalf of the Vinyl Institute.\*

"PVC Pipe and Drinking Water Safety" -- *Technical paper summarizing VI-sponsored research on pipe permeation and leaching. Revised July 1991. References.\**

"Technical Information Available" -- *Special four-page PVC Pipe Resource Report listing publications about PVC available from ASTM, AWWA, Uni-Bell, PPI, PPFA and the Vinyl Institute\*.*

"Is PVC Piping Firesafe?" -- *Article by VI consultant Joseph Zicherman, reprinted from the November/December 1990 issue of Fire Journal.\**

\* Available separately, or as part of the Pipe Resource Organization information kit.

#### **Packaging Market:**

"Eight Packaging Professionals" -- *Eight-page, four-color brochure highlighting brand-name vinyl bottle applications with testimonials from package designers and other independent experts.\**

"Vinyl: The Advantage You Need" -- *Six-page, four-color brochure about the advantages of vinyl for bottled water applications.*

"Which Bottle Gives Your Water the Right Look?" -- *A set of three, four-color direct mail pieces, each focusing on one of the benefits of using vinyl for water bottles.*

"A Look at the Packaging Options for Bottled Water" -- *Authored on behalf of the Vinyl Institute, reprinted from the August/September 1988 issue of Bottled Water Reporter magazine.*

"Vinyl Packs Get VIP Treatment" -- *Coverage of the Institute's vinyl packaging awards competition, reprinted from May 1991 issue of Packaging Digest.*

\* Available separately, and as part of the Packaging Council's version of the VI's solid waste information kit.



A Division of The Society of The Plastics Industry, Inc.

November 25, 1991

TO: Vinyl Institute Executive Board

RE: Executive Board Meeting - December 12, 1991

Enclosed is the agenda and briefing book for the next meeting of the Vinyl Institute Executive Board which is to be held on Thursday, December 12, 1991 starting at 8:00 a.m. at the Atlanta Airport Marriott Hotel.

As in the past, there will be a Board dinner the evening prior to the meeting to be held at the hotel with cocktails at 7:00 p.m. and dinner at 8:00 pm.

As to the Board Meeting itself, the agenda has been structured so as to allow sufficient time for Board level discussion on those items requiring action and to allow for adjournment by noon. Since we anticipate concluding this meeting around the noon hour, no arrangements have been made for lunch. As usual, however, a continental breakfast will be available starting at 7:45 a.m. prior to the Board Meeting.

I look forward to seeing you in Atlanta and to a useful and informative meeting.

RTG/pmb

CTL009610

## VINYL INSTITUTE EXECUTIVE BOARD

The Rittenhouse Hotel  
210 West Rittenhouse Square  
Philadelphia, Pennsylvania

Friday  
September 13, 1991  
8:00 a.m.

### Attendees

Raymond Azrak, Union Carbide Corporation  
Alan Bailey, Occidental Chemical  
Pat Benkner, Vinyl Institute  
Bob Burnett, Vinyl Institute  
Peter de la Cruz, Keller & Heckman  
Bruce Duerringer, Kaneka Texas  
Roy Gottesman, Vinyl Institute  
Jerry Koral, Atochem  
Fred Krause, BFGoodrich ~~P&S~~  
Len Krauskopf, Exxon Chemicals/Canada ~~USA~~  
Brad Lienhart, Dow Chemical  
Bob Margevich, Akzo Chemicals  
Bob Noble, Exxon Chemicals/Canada  
W.F. Patient, BFGoodrich  
John Russ, Borden Chemicals  
Meredith Scheck, Vinyl Institute  
E. S. Schiffer, Georgia Gulf  
Erv Schroeder, Shintech  
Jim Souder, Rohm & Haas  
Vic Struber, Witco  
Roger Wilson, GE Specialty Chemicals

### I. OPENING OF MEETING AND SELF INTRODUCTIONS

Mr. Russ convened the meeting at 8:00 a.m. and asked for a round of self introductions. Mr. Russ welcomed Mr. Azrak of Union Carbide and Mr. Lienhart of Dow to their first Executive Board meeting. Mr. Russ thanked Atochem and Rohm and Haas for hosting the Board at dinner the evening of September 12.

### II. APPROVAL OF MINUTES OF EXECUTIVE BOARD MEETING OF MAY 29, 1991

Mr. Schiffer moved that the minutes of the Executive Board meeting of May 29, 1991 as included under Tab A of the briefing book for this meeting be approved as submitted. The motion was seconded by Mr. Koral and approved by voice vote.

CTL009611

## PONTE VEDRA INN AND CLUB

2000 Ponte Vedra Boulevard  
Ponte Vedra Beach, Florida 32082  
(904)-285-1111  
Tony Fitzjohn

|                        |                                  |
|------------------------|----------------------------------|
| Distance From Airport: | 40 Minutes South of Jacksonville |
| Room Rate:             | \$119.00/All oceanfront rooms    |
| Hotel Size:            | 200 Rooms                        |
| Recreation:            | Tennis: 15 courts                |
|                        | Golf: 2 courses on premises      |
|                        | Pool: 4                          |
|                        | Resort on the beach              |

I am highly recommending this resort. The rooms are extremely nice and a good size. Everything at the resort is within walking distance and very convenient. The conference center is new and geared for convenience even down to the lighting in the rooms. The hotel size is 200, so that the Vinyl Institute would be taking up the majority of the space and we would not be competing with other functions going on simultaneously.

He had originally quoted me a room rate of \$185.00, but we worked out a rate more in line with the rest of the resorts when I went down there on the site inspection.

Although I think the golf course at Ponte Vedra is fine to me, I think the course at Marriott Sawgrass is probably better (more difficult). There is also a course in the area that is very popular (Marsh Landing) and if the VI members would prefer, I can arrange for our tournament to be played at any of the other courses.

CTL009612



*A Division of The Society of The Plastics Industry, Inc.*

# P R O G R A M

## The Vinyl Institute Executive Board Meeting

Thursday, December 12, 1991  
8:00 a.m.

held at:

Atlanta Airport Marriott  
4711 Best Road  
College Park, Georgia

CTL009613

PROGRAM  
EXECUTIVE BOARD MEETING  
DECEMBER 12, 1991

I. OPENING OF MEETING AND SELF INTRODUCTIONS

Executive Board Chairman Russ will open the meeting with a round of self introductions.

II. APPROVAL OF MINUTES OF SEPTEMBER

It is in order to approve the minutes of the September 13, 1991 Executive Board Meeting, a copy of which can be found under Tab A of the Briefing Book for this meeting.

Motion: "I move that the minutes of the Vinyl Institute Executive Board meeting held on September 13, 1991 be approved."

III. CHAIRMAN'S REPORT ON EXECUTIVE COMMITTEE MEETING OF DECEMBER 11, 1991

Mr. Russ will report on discussions held December 11, 1991 during the Executive Committee meeting.

IV. FINANCIAL REPORT

A. Status of Current Expenditures

A cash basis statement for the period ending October 31, 1991 the first five months of the current fiscal year, is included under Tab B of the Briefing Book for this meeting. Dr. Gottesman will present that information for review and discussion by the Board. If later financial information is available by the date of the Executive Board Meeting, it will be presented at this time.

B. Year-End Projection

A projected year-end financial report for the current fiscal year (June 1, 1991 - May 31, 1992) is included under Tab C. Dr. Gottesman will present this information for review and discussion by the Board.

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C. FY 1992- 1993 Budget Development

Dr. Gottesman will review the process to be used in the development of a proposed budget for FY 1992-1993 (June 1, 1992 - May 31, 1993). In past years, a preliminary budget for the coming fiscal year has been presented at the Executive Board's March meeting, with subsequent final approval at the Executive Board's May meeting.

V. SOLID WASTE MANAGEMENT

A. Vinyl Institute Group on Recycling (VIGOR)

At the September 13 Executive Board meeting two initiatives were approved: one aimed at citing an automated sortation unit for the recycling of vinyl plastics in the State of Florida. The other initiative was directed at participating in discussions focused on creating plastic recycling facilities (PRFs).

Mr. Krause, Committee Chairman, will update the Board on the implementation of these initiatives. Background information is included in the Committee's report under Tab D.

B. Issues Management Activities: First Six Months

The Executive Committee of the Board approved in early May an Issues Management Program. At the May, 1991 Annual Meeting, Mr. David Meeker and Ms. Nora Jacobs of Edward Howard & Co., The Vinyl Institute public relations agency, presented elements of the new Issues Management Program. A quarterly review meeting with the VI Communications Committee was held October 4. Mr. Burnett will update the Board on activities undertaken to implement the program during the first six months of the fiscal year. Background information is included under Tab E.

VI. PRO-ACTIVE TASK FORCE REPORTS AND RELATED ITEMS

Background reports on activities of the Pipe Resource Organization, Electrical Materials Council and Vinyl Packaging Council are included in the Briefing Book for this meeting under Tabs F, G, and H respectively. Any updates on this information will be presented at this time by either the committee chairs or staff. Questions on activities of these committees are appropriate at this time.

VII. CALIFORNIA EIR STATUS REPORT

Dr. Gottesman will update the Board on the status of the California EIR on expanded use plastic pipe. Background information is included under Tab M.

VIII. TECHNICAL, REGULATORY AND LEGISLATIVE UPDATES

A. Proposal to Consider Development of a New Unit Risk Factor for Vinyl Chloride.

The Vinyl Institute Health, Safety & Environment Committee received a proposal from Clement Associates to initiate a two-phase project aimed at developing a new unit risk factor for vinyl chloride. Initial committee consideration of this proposal has occurred. Before further discussions on this proposal are undertaken and proposed funding for such an initiative is requested, the Executive Director suggested that the Committee update the Board on this issue. Mr. Borrelli, Committee Chairman, will present this topic to the Board. Background information is included under Tab J.

B. Other

Updates to supplement materials in the Briefing Book on the following will be presented at this time by either the committee chair or appropriate staff:

|                              |       |
|------------------------------|-------|
| Technical Committee          | Tab I |
| Health, Safety & Environment | Tab J |
| Legislative                  | Tab K |
| General Counsel's Report     | Tab L |

Questions on items included in the Briefing Book reports and on the presentations are appropriate at this time.

IX. ANTITRUST/LITIGATION UPDATE

Mr. Luss, Chairman of the Legal Committee, will update the Board on antitrust and litigation issues of interest to the vinyl industry.

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X. EUROPEAN UPDATE

Mr. Prinselaar will update the Board on activities in Europe since the last Executive Board meeting at which time Mr. Burnett gave a brief summary of Mr. Prinselaar's report.

XI. OLD BUSINESS

A. Chlor-Alkali Federation

Dr. Gottesman will update the Board on continuing liaison with trade associations in the chlor-alkali industry. Background information is included under Tab N.

B. Partnership for Plastics Progress

Mr. Patient will update the Board on the status of and financing arrangements for the Partnership for Plastics Progress.

XII. NEW BUSINESS

A. Proposal for Tripartite Organization: VI/ECVM/Japan PVC Association.

The Board received a report on the October 7 meeting between representatives of the Japan PVC Association and the Vinyl Institute. Mr. Russ will lead the Board in a discussion on the proposal for a tripartite organization.

B. Other

It is appropriate at this time that any additional new business items be discussed.

XIII. ORGANIZATIONAL

A. Membership

It is appropriate at this time to discuss any business related to membership.

B. Other

Mr. Russ will lead the Board in a discussion of other organizational issues.

XIV. FUTURE MEETINGS

A. Executive Board Meeting - March 18, 1992

The next meeting of the Executive Board will be Wednesday, March 18, 1992 at a site to be determined in Houston, Texas. An Executive Committee meeting will be held from 4:00-6:00 p.m. the afternoon preceding the Executive Board meeting.

B. Annual Meeting Location/Recommendation

Based on the Board's direction, Ms. Benkner has been researching appropriate facilities in the southeast United States for the 1992 Annual Meeting, scheduled for May 27-29, 1992. A decision on the recommended location needs to be made at this time.

XV. SPI PROGRAM - OPERATION CLEAN SWEEP

A video on the SPI Program: Operation Clean Sweep will be shown at this time.

XVI. ADJOURNMENT

There being no other business, a motion to adjourn will be in order.

## VINYL INSTITUTE EXECUTIVE BOARD MEETING

Atlanta Airport Marriott  
4711 Best Road  
College Park, Georgia

Thursday  
Dec. 12, 1991  
8:00am-12:15pm

- 8:00 - 8:05a      I. Opening of Meeting & Self      J. Russ  
                                         Introductions
- 8:05 - 8:10      II. Approval of Minutes of September  
                                         13, 1991 Executive Board Meeting
- 8:10 - 8:20      III. Chairman's Report of Executive      J. Russ  
                                         Committee Meeting of  
                                         December 11
- 8:20 - 8:30      IV. Financial Report      W. Patient/  
                                         R. Gottesman
- A. Status of Current Expenditures  
                                         B. Year End Projection  
                                         C. FY '92-'93 Budget Development
- 8:30 - 9:00      V. Solid Waste Management      F. Krause
- A. VIGOR - Update on Implementation  
                                         of Initiatives Approved at Sept. 13  
                                         Board Meeting (PRFs and Siting of  
                                         Sortation Unit)
- 9:00 - 9:15      B. Issues Management Activities:      R. Burnett  
                                         First Six Months
- 9:15 - 9:30      VI. Pro-Active Task Force Reports  
                                         & Related Items
- (If needed to supplement materials  
                                         in Briefing Book)
- 9:30 - 9:45      B R E A K
- 9:45 - 9:55      VII. California EIR Status Report      R. Gottesman

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**VIII. Technical, Regulatory &  
Legislative Update**

|               |                                                                                |                        |
|---------------|--------------------------------------------------------------------------------|------------------------|
| 9:55 - 10:05  | A. Proposal to Consider Development of New Unit Risk Factor for Vinyl Chloride | F.Borrelli             |
| 10:05 - 10:25 | B. Chem Systems Life Cycle Analysis Report                                     | C.Bush                 |
|               | C. Other (If needed to supplement materials in Briefing Book)                  |                        |
| 10:25 - 10:45 | <b>IX. Antitrust/Litigation Update</b>                                         | R. Luss                |
| 10:45 - 11:00 | <b>X. European Update</b>                                                      | W.Prinselaar           |
| 11:00 - 11:15 | <b>XI. Old Business</b>                                                        |                        |
|               | A. Chlor-Alkali Federation                                                     | R.Gottesman            |
|               | B. Partnership for Plastic Progress                                            | W.Patient              |
| 11:15 - 11:30 | <b>XII. New Business</b>                                                       |                        |
|               | Proposal for Tripartite Organization: VI/ECVM/Japan PVC Association            | J.Russ/<br>R.Gottesman |
| 11:30 - 11:40 | <b>XIII. Organizational</b>                                                    |                        |
|               | A. Membership                                                                  |                        |
|               | B. Other                                                                       |                        |
| 11:40 - 12:00 | <b>XIV. Future Meetings</b>                                                    |                        |
|               | A. March 18, 1992                                                              |                        |
|               | B. Annual Meeting Location (Recommendation)                                    |                        |
| 12:00 - 12:15 | <b>XV. SPI Program: Operation Clean Sweep</b>                                  |                        |
| 12:15 pm      | <b>XVI. Adjournment</b>                                                        |                        |

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### III. CHAIRMAN'S REPORT ON EXECUTIVE COMMITTEE MEETING OF SEPTEMBER 12, 1991

Mr. Russ noted that the Executive Committee had discussed Institute activities that have occurred since the last meeting of the Board and commented that those issues would all be covered during the Board meeting.

### IV. FINANCIAL REPORT

#### A. Fiscal Year 1990-1991 Year End Report

On behalf of VI Treasurer, William Patient, Roy Gottesman reviewed the Cash Basis Statement of Revenue and Expenditures for Fiscal Year 1990-1991 as included under Tab B of the briefing book for this meeting. Dr. Gottesman stated that at the time of the last Executive Board meeting, he had reported that a carry forward to the current fiscal year's budget was estimated to be approximately \$15,000. However, when all bills were processed for the fiscal year, a deficit of \$4,385 resulted. He noted that the points of variance from the approved budget for the year were due to increased travel costs, higher than anticipated meeting costs resulting from the Annual Meeting, and higher than anticipated expenses from the Communications budget resulting from the work done for the Institute by Ketchum Public Relations.

#### B. Status of Current Expenditures

A cash basis statement for the period ending July 31, 1991, as included under Tab C was reviewed by Dr. Gottesman. He noted that based on a statement for the first two months of the fiscal year, it was premature to project what the total year outcome would be.

Dr. Gottesman stated that as in previous years second half assessments would be mailed in early December. This timing allows companies to complete their dues payments in either calendar year 1991 or 1992, depending upon their corporate financial year.

### V. SOLID WASTE MANAGEMENT

#### A. Vinyl Institute Group on Recycling (VIGOR)

Mr. Fred Krause, Committee Chairman of VIGOR, reviewed the Committee's objectives in four areas (collection, sortation/separation, reclamation, and materials markets/product uses) and expanded on the material included under Tab D. He summarized for the Board the

current status of activity and summarized the work that still needs to be done to achieve the objectives. Mr. Krause noted that his presentation contained two specific proposals:

1. "Third Bale Proposal"

Mr. Krause noted that at the time of the Annual Meeting, discussions were held with Mr. Liesemer of the Council for Solid Waste Solutions regarding the appropriate timing of a joint industry program aimed at recycling of the "third bale", i.e., all other plastics containers not included in the typical plastic collection/recycling programs. As a result of subsequent discussions by the CSWS Executive Board, a meeting was held August 30 involving representatives of companies representing identified polymer interests.

Mr. Krause summarized the discussions at this meeting and noted that the action step agreed to was the formation of a task force to establish a business plan to move this concept forward. This task force consists of Robert Elcik/OxyChem, Guy Cain/Himont, Don Genson/Dow and Jim McClellan/Amoco. The next meeting is tentatively scheduled for October 10. Mr. Krause commented that absent the completion of such a business plan, it is difficult to estimate costs, but it could be in the range of \$1-4 million. Vinyl's share would be approximately one-third of the total.

He stated that VIGOR was seeking approval from the Board to continue these discussions recognizing that there are potential significant financial obligations. During the discussion period that followed Mr. Krause's presentation, Mr. Koral asked legal counsel to explain the antitrust implications related to different types of joint company activities. Mr. de la Cruz summarized briefly the antitrust considerations related to different types of joint company initiatives. Mr. Schiffer asked Mr. de la Cruz to provide the Board with written guidance relative to the antitrust implications of a joint industry initiative.

Mr. Schiffer, noting that the Board had previously discussed the concept at its February 27, 1991 meeting, stated that from his perspective the Board should reconfirm its prior agreement that (a) the vinyl industry believes that programs aimed at the recycling of vinyl packaging are important ones to

the industry not only because of the impact on packaging, but also because of their relationship to other vinyl end markets; (b) action in this area is more effective as a group than as individual companies. Mr. Schiffer noted that if the Board reaffirmed its prior position, then the decision was limited to reaching agreement on the most appropriate action to take to implement this goal. Dr. Gottesman commented that VIGOR is seeking Board approval to move forward in its discussions with other elements of the plastic recycling facility to handle the "third bale".

Motion:

Mr. Patient moved that VIGOR be authorized to pursue the discussions as described by Mr. Krause.

The motion was seconded by Mr. Bailey and approved without objection.

2. Proposal to Site an Automated Sortation Unit

Mr. Krause reviewed the status of activity in several localities considered political "hot spots". Mr. Krause summarized in detail activities in Florida related to workshops being held to assess the implementation of the state's 1988 Solid Waste Management Law, of which the Board had been previously apprised. Mr. Krause noted that in the last few weeks representatives of BFGoodrich and Occidental had met separately with Senator Kirkpatrick, who is chairing these hearings.

As a result of these discussions, Mr. Krause stated that VIGOR is strongly recommending that to protect the market for vinyl packaging in Florida that an automated sortation unit be sited in the state. Based on preliminary discussions, it appears that there are two potential sites. He further noted that Dr. Carroll of OxyChem and representatives of the Council for Solid Waste Solutions had held meetings September 12 to explore the state of Florida's interest in being a partner in establishing a program. Additionally, Mr. Krause noted that VIGOR believes that there is a window of opportunity to move forward in Florida of perhaps 60-90 days. Dr. Gottesman summarized his discussions with National Recovery Technologies, Inc. (NRT) to preliminarily determine the range of financial arrangements that might be explored to help minimize the financial impact on the

Institute. In response to a question from Mr. Lienhart, Mr. Krause summarized how automatic sortation units are being used in the marketplace to sort out vinyl and why it is important to support a program aimed at identifying vinyl so that the vinyl can be recycled. Mr. Lienhart urged that whatever model or program was put together be one that could be replicated by others elsewhere.

Dr. Gottesman recommended that the Board give VIGOR the authority to pursue up to a set dollar amount a program aimed at siting an automated sortation unit at a Florida-based materials recovery facility and that they be directed to accomplish this in such a manner that costs be minimized to the maximum extent possible. Mr. Russ reminded the Board that the current Vinyl Institute budget does not include dollars for such an initiative.

Motion:

Mr. Schiffer moved that VIGOR be authorized to spend up to \$200,000 for the siting of an automated sortation unit at a Florida-based MRF and, further, that VIGOR be directed to arrange the program with incentives or mechanisms that would minimize expenditures to the maximum extent possible.

The motion was second by Mr. Koral and approved without objection.

**B. Issues Management Activities**

Mr. Burnett highlighted the status of several activities undertaken in the area of issues management including:

1. VERCE

Mr. Burnett reported that the Vinyl Environmental Resource Center (VERCE), which has been in operation for three months, is now receiving about 200+ calls a month. He noted the diversity of requests and the significant expansion of the database.

2. Industry Outreach

The "On the Firing Line" seminars have been scheduled for three locations between October 3 and November 12. Mr. Burnett reviewed current registration numbers and asked Board

members to encourage participation. He stated that current plans were for the third seminar to be videotaped which might be appropriate for internal use. He also commented that each of the seminars would have a recycler as luncheon speaker.

3. Recycler's Directory

Mr. Burnett noted that thousands of copies of the second edition of the Recycling Directory had been distributed and several additions have been identified for future updates. In response to a question from Mr. Lienhart, Mr. Burnett explained the CSWS project to identify communities recycling plastic and noted that this identification would provide additional sources for distribution of the directory.

4. Speakers' Bureau

Mr. Burnett reviewed the plan by Edward Howard & Co. to give broader exposure of vinyl industry interests by actively placing industry spokespersons on the programs for meetings and conferences of various interest groups and organizations. He noted that to date only six individuals have been identified.

Mr. Lienhart suggested that one way to multiply the effectiveness of this program would be to assure that the one hundred executives who are involved in the Chlorine Institute's outreach program are educated on the issues related to vinyl plastic so that they can appropriately represent the interests.

5. Other

Mr. Burnett stated that a briefing on vinyl packaging and recycling issues was planned before a major retailer next week, with future briefings planned. He also noted that EnVironmental Briefs now has a distribution list of over 15,000. Mr. Burnett stated that collateral materials are being developed, including a small wallet size card that will be distributed in conjunction with the industry training seminars and through other channels.

## **VI. PRO-ACTIVE TASK FORCE REPORTS AND RELATED ITEMS**

Mr. Russ noted that background information on the activities of the Pipe Resource Organization, Electrical Materials Council and the Vinyl Packaging Council are included in the briefing book under Tabs F, G, and H respectively. Mr. Russ asked for questions on information included in these reports or related topics. There were no questions.

## **VII. EUROPEAN UPDATE**

In Mr. York's absence, Mr. Burnett provided a summary of significant developments that have occurred throughout Europe since the Annual Meeting. This information is summarized on the chart attached to the minutes of this meeting. Additionally, Dr. Gottesman noted that Mr. Rolf Buehl of the European Vinyls Corporation had completed a country-by-country report of activity through the end of July, 1991 which had been distributed previously to members of the Board.

## **VIII. CALIFORNIA ENVIRONMENTAL IMPACT REPORT (EIR) STATUS REPORT**

As background information, Dr. Gottesman noted that as the Board is aware, the contractor of the study, SRI International, filed a report in December 1990. In the filing of this report, SRI notified the state that the report was 90 percent complete, but that no funds were available for the remainder of the work.

In February 1991, the State Department of Housing and Community Development asked the State Attorney General's office to review the document for completion against the State's contract. Dr. Gottesman noted that the review by the Attorney General's office has been completed and that the document was found to be incomplete in that it did not respond to all of the past-hearing comments.

Dr. Gottesman noted that Mr. Freeman, Vice President for Government Affairs of SPI and representatives of Keller & Heckman met on September 12 with the Deputy Director of the HCD. Mr. Freeman provided Dr. Gottesman with a summary report of that meeting. Mr. Freeman reported that the HCD is committed to having the report completed, which might lead to arbitration if the contractor is not responsive.

Dr. Gottesman noted that based on Mr. Freeman's report he is somewhat encouraged that the EIR may yet be finalized.

## **IX. TECHNICAL, LEGISLATIVE AND REGULATORY UPDATE**

Mr. Russ noted that at this time it was appropriate for Board

members to ask for additional information or for discussion on items covered by reports of the following committees/areas: Technical, Health, Safety & Environment, General Counsel's Report, and Legislative Update.

Dr. Gottesman noted that one subject not covered in the reports that has received attention from the Vinyl Institute and separately from some companies is the subject of indoor air. He noted that at least two companies are participating in a project at the ASTM to determine appropriate testing methodologies for indoor air. In addition, comments had been provided by the Institute to the American Institute of Architects on the draft of their Environmental Resource Guide.

Mr. Lienhart noted that a new group has been formed, The Business Council on Indoor Air, to help coordinate business activity on this issue. He recommended that if there are items of interest to the vinyl industry, discussions be held with Dr. Paul Cammer who is staffing the BCIA.

#### X. OLD BUSINESS - CHLOR ALKALI FEDERATION LIAISON

Dr. Gottesman noted that background information is included under Tab N. On the subject of the Greenpeace Report "Chlorine - The Product is the Poison", Dr. Gottesman noted that a member of the Technical Committee is completing a line-by-line rebuttal of the report. He also advised the Board that a "First Citizens Conference on Dioxin" is to be held this fall immediately preceding the convening of the 11th Annual Dioxin Conference at the same North Carolina location.

Mr. Lienhart noted that Chlorine Institute is establishing a clearinghouse for information on the issue of dioxin and that a task force has been established to work with EPA on this. Mr. Lienhart also noted there are now 16 chlorine chemicals to be covered under the umbrella of the Chlorine Project of Greenpeace and the industry involvement in providing accurate information to encourage balanced press coverage. He also reviewed the status of plans for the International Joint Commission on the Great Lakes and noted that the Council on Great Lake Industry will be holding a workshop.

#### XI. NEW BUSINESS

##### A. International PVC Symposium

Dr. Gottesman stated that he had spoken with Dr. Freiesleben of the European Council of Vinyl Manufacturers and had been advised that at its most recent Steering Committee meeting the ECVI members suggested that rather than a free standing international symposium that the PVC issues be added to the third

Chlor-Alkali Symposium scheduled for Monte Carlo. Dr. Gottesman noted that he is scheduled to meet on October 7 with representatives of the Japan PVC Association.

B. Partnership for Plastics Progress

Mr. Patient updated the Board on the background and status of formation of the Partnership for Plastics Progress. He noted that the group, which is to operate under the Chemical Manufacturers' Association as a CHEMSTAR initiative is being chaired by Bill Lichtenberger of Union Carbide. He reviewed in detail the organizational structure, including names and company affiliation of all committee and task group chairmen. Mr. Patient noted that twenty-five companies have already contributed resources to initiate the activity. Mr. Patient responded to questions and urged others to become involved.

XII. ORGANIZATIONAL ISSUES

A. Membership of Union Carbide

Mr. Schroeder moved that the application of Union Carbide to be a member of the Institute (included under Tab M) be approved effective July 1, 1991. The second to the motion was made by Mr. Schiffer and approved unanimously. Mr. Russ officially welcomed Mr. Azrak to the Executive Board.

XIII. FUTURE EXECUTIVE BOARD MEETING DATES

Dr. Gottesman noted that because the Vinyl Institute's March, 1992 Executive Board meeting date conflicts with a rescheduled meeting of the Board of the Society of the Plastics Industry, it is necessary to change the date. He suggested the date of March 18, 1992 in Houston. There being no objection, that date was agreed to.

XIV. ADJOURNMENT

There being no other business, the meeting was adjourned at 11:35 a.m.

Respectfully submitted,

*Meredith N. Scheck*

Meredith N. Scheck  
Assistant Director  
MNS/bg

CTL009629

WEST EUROPEAN OVERVIEW

| COUNTRY        | LEVEL OF ENVIRONMENTAL PRESSURE | EXISTENCE OF RECYCLING ASSOCIATION | RECYCLING TARGET IN PACKAGING AREA                   |
|----------------|---------------------------------|------------------------------------|------------------------------------------------------|
| Austria        | M                               | yes                                | not yet specified                                    |
| Belgium        | L                               | yes                                | 60% by 2000                                          |
| Denmark        | H                               | yes                                | 85% by 2000                                          |
| France         | L                               | yes                                | not yet specified                                    |
| Germany        | H                               | yes                                | 64% by 1995<br>(i.e. 450,000 tons)                   |
| Holland        | H                               | yes                                | 60% by 2000; total outcome not to exceed '86 level)  |
| Italy          | M                               | yes                                | 40% bottles by 2000                                  |
| Luxembourg     | L                               |                                    | 70% by 1995                                          |
| Norway         | L                               |                                    | not yet specified                                    |
| Spain          | L                               |                                    | not yet specified                                    |
| Sweden         | M/L                             |                                    | not yet specified                                    |
| Switzerland    | H                               | yes                                | 35% bottles now, PVC banned if not proven recyclable |
| United Kingdom | L                               | yes                                | 25% by 2000                                          |

PRINCIPAL PROBLEM

Whether "harmonized directive" from E.C. will follow punitive lines of German/Dutch legislation or will adopt more balanced concept put forward by plastics industry, i.e. no product discrimination (e.g. v. PVC), concentration on reduction in plastic waste going to landfill, 40 percent recycling within 10 years, acceptance of incineration with energy recovery as legitimate alternative to physical recycling.

B

CTL009631



CTL009633



CTL009635

VINYL INSTITUTE GROUP ON RECYCLING (VIGOR)

MISSION:

To assure commercial recycling of vinyl plastics, as part of the overall plastics industry effort by:

1. Encouraging the collection of vinyl packaging discards in mandated or voluntary collective programs.
2. Sponsoring research/development to develop mechanical separation/sortation technology or vinyl plastics in a mixed plastic stream.
3. Encouraging the reclaiming/clean-up of separated vinyl so that it can be used in second-generation commercially-acceptable products.
4. Evaluating and establishing suitable end-use markets for recovered recycled vinyl materials.
5. Working with other industry trade groups to establish programs for the practical recycling of other vinyl (non-packaging) products such as building materials (siding, pipe, profiles).
6. Establishing a coordinated communications program that will serve to publicize the opportunities for recycling vinyl plastics and to convey the progress being made on such recycling to key audiences including state and local government officials, industry leaders, environmental groups and other interested audiences.

CTL009636

VINYL INSTITUTE GROUP ON RECYCLING (VIGOR)  
VI BOARD - 12-12-91

OBJECTIVES/STATUS

COLLECTION

**OBJECTIVE:** Continue/expand collection of vinyl and contact with waste management companies, recyclers, municipal/county/state officials.

**STATUS:**

- o Nashville/Steiner-Liff/VI 1,2,3 pilot collection program with Krogers in progress.
- o Initiated connection to Model Cities to collect vinyl and all rigid containers (CSWS)
- o Rhode Island - still trying on collection of siding.
- o Vinyl Siding Institute (VSI) working to re-start siding collection with Shuman in northeast. VSI program re-oriented toward environmental.
- o Continuing collection by member companies, Borden has initiated collection in Baton Rouge.

**ACTION:**

- o Aggressively pursue PRF concept in connection with other plastics (3-7) and CSWS. See sortation
- o Continue programs above

SEPARATION/SORTATION

**OBJECTIVE:** Complete programs at NRT and Devtech to demonstrate sortation. Secure commercial evaluation NRT and other sortation technology. Stay abreast of other applicable technology.

**STATUS:**

- o CPRR-Rutgers program complete.
- o NRT "Vinyl Cycle" status - unit installed in Steiner-Liff. Planned experiments went very well on PET rich stream with excellent rates and quality. Vinyl rich stream required slower rates. Reverse sort, ie ejecting non-PVC, needs some additional programming by NRT and is now in progress. Commercial sortation proceeding at Steiner-Liff. Reprise unit operating -Gottesman visit-11/91. Wellman happy and ordering additional units. Concern on NRT pricing of units. See Florida report.

CTL009637

- o PRF Proposal - Program with CSWS and other 3rd bale contributors going very well. Task Group presented excellent business plan draft and the industry group agreed to proceed in forming a consortium for an "Autosort Demonstartion Facility". Initial costs are estimated at \$1.5mm with CSWS providing 1/3 in form of sorting technology, 1/3 to come from state funding with balance to be funded by participating industries. Program will be reviewed at December Board Meeting.
- o Florida - Proposal has been developed to sponsor installation of an automatic sorting device in Florida MRF. Selection will be made by Senator Kirkpatrick via response to a request for proposal prepared by VI. Florida to provide funding for facilitating collection. Getting proposals from both MSS/ASOMA and NRT. Setting meeting date to present to Senator ASAP.
- o Devtech program with CSWS/VI/CARPCO progressing to pilot stage.
- o Froth flotation technology to separate PVC/PET by RPI in Utah and Goodyear continues under evaluation by VIGOR. Looking at proposal to jointly (CSWS,VI,NAPCOR) fund for short pilot.

- ACTION:**
- o Move PRF Autosort Demonstration Facility ahead. Review with Board.
  - o Present Florida proposal to Senator Kirkpatrick and get on with it.
  - o Complete NRT evaluation at Steiner-Liff.
  - o Support joint effort on froth separation pilot.
  - o Communicate/PR commercial use of automatic sortation.
  - o Monitor programs and mileposts on key projects.

#### RECLAIM-CLEANUP

**OBJECTIVE:** Establish separation/cleanup to obtain clean flake economically.

- STATUS:**
- o Not a VIGOR activity; individual company efforts to accomplish.
  - o Conventional grind/wash/dry systems demonstrated at toll processors as well as Rutgers by member companies (OXY/BFG/GG).
  - o Melt filtration technology commercially available and under evaluation by member companies.
  - o Reprise (EVC) operational in UK.
  - o Pulverizing technique operational in Europe and cryogenic grinding in commercial in Australia.

- ACTION:**
- o Continue dialogue on industry cooperation.

CTL009638

## END-USE MARKETS

**OBJECTIVE:** Sponsor market research and coordinate industry efforts to suitable/realistic markets for recycled vinyl. Develop consensus standards as applicable.

**STATUS:**

- o Toledo-Bennett study complete and given wide PR; shows 500MM lbs demand for recycle vinyl.
- o Demonstration projects moving ahead.
  - Pipe project with cooperation from PW PIPE delayed by grinding evaluation.
  - Siding project slowed by available siding producer and other priorities.
  - Bottles to packaging - evaluating melt filtration tolling capability.
- o Member companies and others now marketing recycle content for non-food containers and packaging.
- o Durables recycling more visible. CSWS Durables Committee held organizational meeting. VI and member companies well represented.
- o VSI/VI dialogue continuing on cooperative efforts.
- o Industry efforts priority in ASTM/other to develop standards on recycling, including symbols for recycling on durables.

**ACTION:**

- o Complete demonstration projects.
- o Continue press for documenting case histories on recycling.
- o Define industry efforts required on durables.

## COMMUNICATIONS

**OBJECTIVE:** Publicize the accomplishments on vinyl recycling. Educate our Publics on recyclability of vinyl and stop de-selection of PVC for packaging and other applications.

**STATUS:** See Issues Management/Communications strategy. Communications/ VIGOR/Vinyl Packaging Council closely tied on communications.

**ACTION:** Maintain close coordination with Issues Management.

F. E. Krause

CTL009639

VIBOARD  
12/12/91



CTL009640

To: VI Board

From: Mike Reynolds, Chair, Communication Committee

Date: Nov. 19, 1991

teroffice  
ommunication

Subject: Board Report

VISTA

The committee met in Philadelphia Oct. 4

1. The key task was to review the progress of the Outreach Program being conducted by the VI's agency, Edward Howard & Co. It was the evaluation of the committee that the program, and its major elements including:
  - the Vinyl Environmental Resource Center (VERCE)
  - the industry briefings in Philadelphia, Houston and Cleveland
  - speaker's bureau
  - various information documents
  - visits with retailersare all off to a good start.
2. In addition, the committee reviewed progress on the production of four videos. The videos are for use as introductory information with customers, plant community audiences and other opinion leaders. Originally only one video was planned, but it was decided earlier this year to make videos for four audiences or markets: electrical materials, construction, packaging and general issues. The videos should be completed and ready for distribution by the time of the December board meeting.
3. The committee noted that while the agency work and the industry briefings go a long way toward getting ready to deal with the issues facing the vinyl industry, individual companies must make a commitment to use the information with customers and other key audiences. It was agreed that this message should be conveyed to the various member companies.
4. The committee reviewed the life cycle analysis study and recommended that Edward Howard & Co. work with the public relations people at Chem Systems to develop a public relations program for the project.

CTL009641



CTL009642

PIPE RESOURCE ORGANIZATION

A PRO meeting was held in August. See attached minutes. (Appendices to minutes are available upon request.) There is another PRO meeting on December 4th. See attached agenda.

I will attend the Board meeting on December 12th and will update the Board at that time.

Michael Barish  
11/18/91

CTL009643

## PIPE RESOURCE ORGANIZATION

Hyatt Regency  
Dallas/Fort Worth Airport  
Dallas, Texas  
East Tower

Thursday  
August 29, 1991  
8:00 a.m.

### Attendees:

Michael Barish, Borden Chemicals and Plastics  
Ron Bishop, Carlon (Guest)  
Roy Gottesman, Vinyl Institute  
Peter Lloyd, BFGoodrich Company  
Bob Novick, CertainTeed Corporation  
Cal Reh fuss, Georgia Gulf Corporation  
Dan Stanowick, Edward Howard and Company  
Greg Torchiana, Rohm and Haas Company  
Bob Walker, Uni-Bell PVC Pipe Association  
Martin G. White, Occidental Chemical Corporation

### I. SELF-INTRODUCTIONS/APPROVAL OF MINUTES OF PREVIOUS MEETING

Chairman Michael Barish opened the meeting at 8:07 a.m. and a round of self-introductions followed. On motion of Greg Torchiana, seconded by Peter Lloyd, the minutes of the May 30, 1991 meeting were approved as received.

### II. OBJECTIVES OF MEETING

Chairman Michael Barish indicated that the agenda was a full one and was aimed at determining how well we were on target in our plans for carrying out a pro-active program to promote PVC pipe. He further noted that later in the program, Ron Bishop of Carlon would be in attendance to provide a presentation on opportunities in the very large diameter pipe market.

Peter Lloyd advised the group that, at the request of a Canadian customer, Scepter, who had sought help and representation on the Canadian Standards Association (CSA), he has now been accepted as a member of the CSA committee that will be developing a standard for large diameter PVC pipe of 16 inches and up in size. This, in part, has been prompted by a move by the polyethylene pipe producers to have a standard written that would solely cover their product.

CTL009644

III. AGENCY REPORT ON MARKETING/COMMUNICATIONS CAMPAIGNA. Advertising

Dan Stanowick reported that the second series of 3 testimonial ads is up and running every other month in the AWWA Journal. The first of these appeared in July and these will continue through May. The ads cover the following in sequence:

Total Performance  
Reliability  
Versatility

Further, he indicated that he will watch for plans by AWWA to highlight a specific topic and could utilize any of our series of 6 available ads if they fit more properly with the subject of a given special issue. In response to Mike Barish's question as to the cost for the ad series, Dan Stanowick indicated a cost of approximately \$2,500 for each ad on a 6-insertion schedule.

Dan Stanowick indicated that ads had been inserted in the Municipal Index and the Public Works Manual annual editions and these have had an unexpectedly high rate of response. Over 500 inquiries resulted from the insertion in Public Works Manual and several hundred from the ad in Municipal Index.

In view of the apparent high response to these ads in special issues, and since there are no funds available for continuing these ads in the current fiscal year, Mike Barish asked Bob Walker to consider whether Uni-Bell would be willing to fund these ads in view of funds that would be available from the Vinyl Institute contribution to Uni-Bell that would be unexpended because of the resignation of Dennis Bauer, the staff engineer at Uni-Bell, who has not yet been replaced.

Assignment:

1. Dan Stanowick will determine whether there is still time to place ads in these annual editions or whether their advertising deadlines have been passed.
2. Bob Walker will check with the Uni-Bell Market Development Committee at its meeting on September 17th to determine whether Uni-Bell would be able to fund these ads estimated at a cost of \$4,000-\$5,000 per placement, assuming that the deadlines have not been passed.

CTL009645

Dan Stanowick also reported that since the 6 ads in the series were compatible in look, they were recently mounted in a collage and used at the Uni-Bell booth at the AWWA show in Philadelphia.

Roy Gottesman reminded the group that, at the end of the current fiscal year, it should plan to carry out a second survey to determine the effectiveness of this program. In this connection, Bob Walker reported that Uni-Bell is considering a survey of water utilities to determine how bad are the problems relating to leaks in that industry, their frequency, costs and types of pipe involved.

He suggested the possibility that both surveys might be combined. However, Roy Gottesman pointed out that the audience of the proposed survey by Uni-Bell would only be a portion of the group that were originally surveyed in the Sommers market research.

Assignment:

Dan Stanowick has the assignment to make a recommendation to PRO with regard to a follow-up market research survey regarding the perceptions of PVC large diameter pipe to determine the effectiveness of the current advertising program.

B. Information Kits/Literature Fulfillment

Dan Stanowick reported that the 3 new ads as well as an update on PVC and drinking water safety are being added to the literature fulfillment kit. He noted that a revision of the technical bibliography is in progress and there are some 15-20 changes. Several changes were verbally given to Dan Stanowick at the meeting including a suggestion that the McGraw-Hill book by Professor Moser on "Buried Pipe Design" be given a separate listing.

Assignment:

1. All PRO members are to review this updated technical bibliography and provide Dan Stanowick with changes, if any, no later than October 1.
2. Bob Walker is to advise Dan Stanowick when the AWWA standard on C907 pipe is formally approved, which is expected in 30 days.
3. Dan Stanowick will complete the revisions on this technical bibliography sometime after October 1 and send same to Al Reventas for final review before it is printed.

Dan Stanowick reported that he had a press release on the results of the updating of the cost/benefit study by IFT. He noted that revising and printing the summary of each of these studies would cost about \$4,000 and recommended against it because the results are virtually identical with those of the 1988 survey. He recommended, instead, sending out a press release.

Roy Gottesman suggested that a synopsis of the differences between the 1988 and 1991 studies prepared and issued as a one-page cover when the four-page summary of the older study is sent out in response to the press release. The group agreed with this approach.

Assignment:

1. PRO members on the Communications Subcommittee are to review the draft press release and provide comments to Dan Stanowick.
2. Dan Stanowick is to prepare a one-page synopsis to cover the summary of the IFT 1988 study.

As regard to the effectiveness of the ads and press release campaign, Dan Stanowick reported that over 1,000 inquiries had been received thus far in 1991 and the split is roughly equal between ads and publicity. He noted the rate of inquiries is higher than in 1990 when over 1,300 inquiries were received for the entire year.

C. Other Publicity

Dan Stanowick indicated that a press release had been issued on the new technical bulletin on drinking water safety. One will also be issued when the updated technical bibliography is completed, and as noted above, 3 press releases on the cost/benefit study by IFT are to be reviewed.

D. Case Histories

Dan Stanowick reported that a new case history has been completed featuring Robert Welton in Fargo, North Dakota and has been offered to approximately 6 non-competing trade media.

Another case history is under development involving Southern State Utilities in Apopka, Florida. A case history on a rural water system in Lorraine County, Ohio is being finalized.

A west coast case history article taken from the recent Uni-Bell news on an installation in Dos Pollos, California will be offered to 4 or 5 non-competing trade magazines and this will also be converted into a Pipe Resource Report for use in the fact kit.

Dan Stanowick also reported on a number of case history placements that are pending including an insertion in Water World News in September relating to Cape Coral, Florida, articles in Civil Engineering in their November 1991 pipelines issue and one in Engineering News Records special issue of October, both of which will feature Paul Werner and the Corpus Christi system and an article in Water Engineering and Management in September 1991, which will be based on the Briley Wild (Jack Dillard) case history.

Dan Stanowick also indicated that the Florida Specifier is planning to do an article on the Jack Dillard/Briley Wild development and Constructioneer magazine will feature the Corpus Christi pipeline in a January 1992 article.

Dan Stanowick reported on a potential opportunity in Pipe lines and Utilities magazine for a primer article on PVC water and sewer pipe of approximately 1,500 words. As this magazine was not really known to the participants in the meeting, further information is needed before a decision can be made.

#### Assignments:

1. Dan Stanowick will provide Bob Walker with information on the magazine and the article that they have indicated an interest in.
2. Bob Walker will review all of this and if it appears that this would be a useful placement, Bob agreed to write-up such an article which could be offered to the magazine.

#### E. Other

Dan Stanowick reported that arrangements have been completed for speakers representing the Vinyl Institute to give a seminar presentation at the Southern Building Construction Congress International (SBCCI) in Tampa, Florida in late October. He noted that the entire presentation will be videotaped for possible later use.

Roy Gottesman indicated that part of his presentation will involve "recycling" a survey carried out some 5

years ago amongst builders, architects and code officials regarding their perceptions of PVC in the building and construction area.

Assignment:

Roy Gottesman accepted the assignment to give this slide presentation at the next PRO meeting.

IV. INFLUENTIALS LIST UPDATING

Roy Gottesman reported that, as agreed at the prior meetings, an expanded influentials list has been compiled and now comprises 104 names. He noted however that this list is already out-of-date, pointing out several names of individuals who are no longer in their "influential" position.

It was agreed that sometime after November 1, a letter will be sent to the influentials list, providing them with computer print-outs of new potential leads, as well as inquiring whether others in their organization should be on the PRO mailing list and whether they are the current person to be receiving these periodic mailings. Included in the package will be updated literature, including the Drinking Water Safety technical paper and the updated bibliography.

Assignments:

1. Martin White was provided with the updated list and he is to review same and return it to Roy Gottesman by October 1 with any changes/additions/revisions.
2. Roy Gottesman and Dan Stanowick will prepare an appropriate letter to go out to the influentials some time in November with the prospects lists and new literature.

Peter Lloyd noted that Plastics Pipes VIII is to be held in The Netherlands in September 1992 and the first announcement and call for papers has been received. In review of the agenda, it appeared desirable to have a paper relating to environmental issues proposed.

Assignment:

Roy Gottesman will talk with John York of EVC to see whether EVC is planning to present a paper at this conference and will advise PRO.

Dependent on EVC's decision, the desirability of the Vinyl Institute sponsoring a paper can be decided.

## V. UNI-BELL COOPERATIVE PROGRAM

### A. Pivotal Cities

Bob Walker reported on the program which includes both regional areas and specific member company designated prospects. He noted that since the last meeting, Iowa City, Iowa has approved C900 PVC pipe for watermains and Portland, Oregon is the second west coast city of a major size going in this direction. This offers hope that other major cities such as Seattle, San Francisco and Los Angeles may be future prospects.

In Cleveland, he noted that a committee is being formed to evaluate water pipe specifications and that permeation seems to be the lingering issue there. He noted that he had provided a seminar to the Lansing, Michigan water department which is run by a private utility. This was well-received and will be followed up.

With regard to the Vinyl Institute-sponsored pivotal cities, he indicated that a seminar was given in Cobb County, Georgia on sewer pipe applications and was well-received.

He plans to follow-up at the Distribution System Symposium (DSS) trade show which will be held in Atlanta in September. He has tried to follow-up to provide a seminar in water distribution, but is running into resistance because the maintenance department is not very receptive to this. He has been asked to provide a letter and a two-month lead time for their consideration.

With regard to the Washington suburban area, they continue to be interested, but he is not certain about a seminar there. Information has been sent regarding ultra-violet degradation. Both the suburban Atlanta and Washington areas continue to be of interest to the Vinyl Institute and will be pursued dependent upon manpower and time availabilities by Uni-Bell.

### B. Uni-Bell Handbook

Bob Walker reported that the work on the handbook is done. The first half is being typeset and the publisher still indicates a publication date as the end of September. 5,000 copies are to be printed.

### C. AWWA Research Foundation RFP 708

Bob Walker reported on this project, which has been awarded to Dr. Al Moser at Utah State. The total cost of

the project is \$163,000. As it first phase, the project contemplates a survey of utilities in terms of actual performance areas. The second phase will involve focusing in on those areas that are considered performance problems. As the initial survey wording could be critical, Uni-Bell received the questionnaire from Dr. Moser and has sent him a revision of same.

Bob Walker provided a copy of the revised questionnaire to the PRO members.

Assignment:

All PRO members are to provide Bob Walker with any suggested changes or revisions on the questionnaire no later than August 30.

As regards to the timing of this project, Bob Walker indicated that the AWWA Research Foundation aims to have the survey in the mail by October, so that the compilation of results could be completed by year-end. They would expect to start phase two of the project in January of next year aiming for completion before the end of the year.

The final work product will be reviewed by a 5-man advisory committee, including members of academia and the consulting profession.

D. AWWA Conference/Trade Show Booth

The booth was exhibited at the AWWA Conference in Philadelphia in June and the Vinyl Institute ad collage was displayed. This was considered successful. This same booth will be displayed at the Distribution Systems Symposium (DSS) in Atlanta starting the week of September 9.

E. PRO Mailing List

Bob Walker did not recall receiving this mailing list from the Vinyl Institute.

Assignment:

Bob Walker will check to see whether this list has been received and if not, will request Roy Gottesman to provide a second copy.

CTL009651

#### F. Staff Engineer Replacement

With the resignation of Dennis Bauer to join ETI, Bob Walker indicated that they have advertised for a replacement and have interviewed some 8 candidates. They expect to make a decision within the next two weeks, but only if they get the right person.

Bob Walker advised the group that in recognition of Dave Eckstein's broader responsibilities and years of experience with Uni-Bell, his title has been elevated from Technical Director to Deputy Executive Director.

#### VI. PRESENTATION ON LARGE DIAMETER PVC PIPE

Ron Bishop, Director of Technical Services at Carlon introduced this subject by indicating that the presentation, which would also include Bob Walker, would discuss the large diameter non-pressure PVC pipe opportunities, including applications in sanitary and storm sewers as well as highway under-drain culverts and cross-drains.

He indicated that the purpose and the mission of the Vinyl Institute Pipe Resource Organization and Uni-Bell are the same, that being to grow and prosper in the large-diameter pipe industry.

Bob Walker presented a discussion on the market opportunities and the size of this market. Largely, the information that he presented can be found in Appendix A of these minutes. Working with data from the 1988 Leading Edge report, which was based on 1987 information, Bob suggested that the report on the use of plastic pipe in these industries could be off by a factor of 5-10.

Bob noted that the storm sewer, highway and culvert drainpipe markets are approximately 75-80% in concrete. He indicated that the numbers in these reports are meaningful, but the amounts of concrete, steel, clay and plastics were all probably understated. He described the products in this market, including Ultra-Rib produced by Extrusion Technologies Inc., Perma-Lock manufactured by JM Manufacturing Company and the Carlon product which is named Vylon.

On the basis of the projections made, assuming the total replacement of other materials by PVC pipe, Bob Walker offered a projection of the total large diameter PVC pipe market potential was 1.8 billion pounds. On the basis of an estimate that 60% of the sanitary sewer market, 30% of the storm, highway and culvert pipes and 40% of water supply pipes could be replaced by PVC, this would indicate a potential market of some 680 million pounds.

On the basis of the prices of concrete at \$0.05 per pound, ductile iron at \$0.23 per pound and PVC at \$0.42 per pound, the price ratios would be:

PVC: Concrete = 8.4/1.0  
PVC: Ductile Iron = 1.8/1.0

for price equivalency.

Ron Bishop next discussed the opportunities. In his view, the opportunity exists in water applications where PVC is competitive with ductile iron, if one takes into account the cost differential which would be necessary for price equivalency.

He stated that technically the application is similar to that of C900 and the questions received in the field are similar to those received day-to-day in smaller large diameter products.

Ron Bishop briefing discussed polyethylene materials and showed samples of Spiralite and Driscopipe. He noted that these products, which are being used in the sanitary sewer area, is one where the properties of PVC can be exploited. He noted that at the same stiffness, PVC products can beat polyethylene products at any time. Further information presented by Ron Bishop can be found in Appendix B to these minutes.

In further discussion, the obstacles existing the the opportunities presented largely relate to the need for improving the technical sales area where there is considerable weakness. Further, it was noted that the "bashing" of one plastic by another was counter-productive. It was suggested that a joint meeting with the polyethylene pipe producers that are largely represented by the Plastics Pipe Institute could be useful.

Assignment:

Ron Bishop and Bob Walker will discuss with the Uni-Bell Market Development Committee the desirability of a joint meeting with polyethylene pipe producers. If they feel that this is desirable, they will so advise Roy Gottesman, who agreed to talk with Stan Mruk about such a meeting.

Ron Bishop also discussed how the Vinyl Institute and Uni-Bell could cooperate and cited the following areas:

1. Education
2. Unifying the industry
3. Responding to the negative campaign by concrete producers. This is a highly politically sensitive area.
4. Promotion of the advantages of vinyl pipe.
5. Working with city and county engineers in pivotal areas.

6. Promoting the success via case histories.
7. Translating the successful use of PVC from small diameter (up to 14" pipe) to larger diameters.
8. Utilizing the political process where this could advance PVC pipe's acceptance.

#### VII. DISCUSSION ON POTENTIAL VINYL INSTITUTE/UNI-BELL ACTIVITY

This discussion was held at the completion of the remainder of the agenda items, but in the interest of keeping all information on this subject together, that discussion is summarized here.

In the area of education, Ron Bishop noted that the Piping Systems Institute held at Utah State has been successful, noting that in the past a major job in Arkansas as well as 6 other large projects were sold. It is recognized that the timing of the last planned session was unfortunate due to the poor economy. Uni-Bell plans to carry out a series of regional seminar programs, largely using the type of information presented at the Piping Systems Institute.

Case histories are useful, but Ron Bishop probably does not have all of the case histories that have been developed by PRO.

##### Assignment:

Dan Stanowick has the assignment to send Ron Bishop copies of all case histories used in the PRO promotional campaign. A video that could stimulate interest in large diameter PVC pipe is planned by Uni-Bell.

The necessity to prevent inter-plastics warfare is recognized and is an attempt to unify the industry and a strategy to respond to the negative campaigns of concrete pipe producers is also needed.

Since the presentation has not been given to the Uni-Bell Market Development Group, nor have they reviewed this, it was agreed that it would be desirable to have such a review take place with the objective of receiving from Uni-Bell their view on what is necessary to develop a useful program, assuming that they had the sole responsibility for same.

##### Assignment:

Ron Bishop and Bob Walker have the assignment to review this planned program with the Uni-Bell Market Development Committee on September 17 and then to advise Vinyl Institute PRO how it can be of help to them in promoting PVC pipe for these expanded uses.

## VII. CALIFORNIA ENVIRONMENTAL IMPACT REPORT

Roy Gottesman reported that based on a review by the California attorney general's office, it appears that the Environmental Impact Report prepared by SRI is legally inadequate, as it apparently does not meet the requirements of the California Environmental Quality Act. He noted that the Housing and Community Development Department and their new Director, Tim Coyle appear to have reservations that a suitable report can be produced by SRI and appear to be leaning towards obtaining a new contractor.

However, a meeting is planned by Lew Freeman of SPI and SPI attorneys with the Housing and Community Development Department indicating that the original contract has not been adhered to and trying to resolve who will be financially responsible for any revisions needed on the SRI report. This meeting is scheduled to be held during the week of September 9.

## VIII. UPDATE ON PIPE INDUSTRY TRADE ASSOCIATION CONSOLIDATION

Mike Barish reported that nothing has happened since the last PRO meeting in May. He reported that USPPA members have joined PPFA and planned to hold separate meetings in conjunction with PPFA meetings. Any joint meetings involving Uni-Bell and PPFA are considered to be at least 2 years away because of prior meeting commitments by these respective organizations.

## IX. SOLVENT CEMENT ISSUES/SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

Roy Gottesman reported on an update that he had received from Don Goodman. The group that has been set-up as a result of discussions at the March PPFA meeting has raised approximately \$100,000 based on contributions from the Vinyl Institute, PPFA, solvent manufacturers and solvent cement manufacturers. The group that is the most difficult so far in terms of funding the work appears to be the fabricators of pipe and pipe fittings.

He also reported that in the view of Don Goodman, there will likely be a delay in the January 1993 deadline, as the test procedure has only been carried out on solvents themselves but not with substrates. Don Goodman indicates that he expects that it will take them to the end of this year, before work involving substrates is completed. Further, he noted that other materials other than solvent cements must be evaluated for their role in air emissions and this could take additional time.

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As regards governmental affairs, it was noted that Debbie Neale, who heads the subcommittee has met with the attorney in California and is satisfied that she is properly "plugged in" to the process. Finally, communications are being handled through Dick Church of PPFA.

Roy Gottesman also reported that Don Goodman believed that as a result of work carried out at IPS, it would likely not be necessary to carry out any original technical work to determine whether the solvent cements were either chemically bound or trapped in the bond, so that emissions from the solvent cemented joints could not occur.

Martin White indicated that from his conversation with Don Goodman, some \$40,000 will likely end up being used for lawyer's fees and approximately \$30,000 could be necessary for outside technical/consulting work.

#### X. CODE MATTERS

Roy Gottesman reported on a telephone conversation that he had had with Pat Toner of SPI on August 27th regarding the retaining of Joe Zicherman by SPI rather than the Vinyl Institute. He noted that when Fred Clarke was no longer available to consult with the Vinyl Institute and represent it at BOCA and SBCCI, he had discussed with Pat Toner coverage for those code bodies as well.

On the assurance that the Vinyl Institute interests at ICBO, BOCA and SBCCI would be handled by Rich Gottwald and SPI-retained consultants, Roy indicated that he had agreed to split the costs for retaining Joe Zicherman and IFT to consult for SPI at IAPMO during the current fiscal year. This will amount to \$3,000 plus one-half of the receipted expenses.

Inasmuch as the current budget would allow the payment of \$1,000 per month or \$12,000 per year for Joe Zicherman to cover both ICBO and IAPMO during the current fiscal year, this new arrangement will allow the Vinyl Institute to save some \$6,000 in consulting fees with IFT this year. This is in addition to the money that will be saved by not retaining Benjamin/Clarke to monitor the other codes. It was noted that any arrangements for future years will have to be negotiated with Pat Toner and SPI for the next fiscal year.

Discussion with briefly held in reference to the ABS-PVC-DWV pipe reportedly made by Genova and which was listed by NSF under ASTM Standard D2661. Roy Gottesman reported that information had been received from NSF under an advisory dated May 22. NSF indicated that it had received questions regarding the appropriateness of referencing this ASTM specification

for this new product development of a co-extruded pipe made with an ABS outer wall and a PVC inner wall.

NSF has referred this matter to ASTM and has asked for clarification. NSF has taken the position if ASTM confirms that ASTM D2661-90 is not the appropriate standard for this pipe, they would modify their certification accordingly. It was noted that the next meeting on ASTM certifications will not be held until November 2 in San Diego.

#### XI. MEDIUM DENSITY POLYETHYLENE MONITORING

Peter Lloyd reported that he had no further information and has some 30 years of information to review and hopes to complete this by the end of the year.

There was brief discussion on the new AWWA standard covering polyethylene pipe. It was noted that Dave Crowson had sent a letter to Robert Lamson at AWWA on July 26 initiating an appeal of the Standard Council's decision concerning the issuance of AWWA Standard C906, which does not require pressure testing. Further information can be found in Bob Walker's letter dated July 31 and attachments thereto which are appended to these minutes as Appendix C. Bob Walker has also faxed the Crowson letter to the president of AWWA and it is hoped that he will intervene and delay the issuance of C906 standard until it is determined whether hydrostatic testing is necessary as a part of this new standard for polyethylene pipe and fittings.

The question was asked if an appeal is denied or is not heard what should be the position of PVC pipe producers on this new standard? Generally, it was the consensus of the group that the positive features of PVC should be promoted rather than a negative campaign against polyethylene.

##### Assignment:

Peter Lloyd took the assignment to review old literature relating to polyethylene pipes to determine if there is anything that would suggest that hydrostatic testing should be incorporated in the C906 standard.

#### XII. ASTM ACTIVITIES UPDATE

Peter Lloyd reported that within ASTM D-20, there are no active projects to write material standards to recycle PVC. The analytical committee is now looking at methods for assessing contamination in recycled PVC.

Peter Lloyd also reported that he is involved in ASTM F17, which has an active project to write a specification for

perforated drainage pipe. It is their hope to have something available to submit for comment at the November ASTM meeting.

Roy Gottesman suggested that it was not too early for the group to start thinking about projects involving recycling of durable products such as PVC.

### XIII. NEW BUSINESS

Mike Barish reported that he had asked and Bob Novick had agreed to accept the position as Vice-Chairman of PRO.

Roy Gottesman presented an update on the status of expenditures for the Pipe Resource Organization for the first 3 months of the current fiscal year, which indicated that the expenditure rate, pro-rated to the end of this fiscal year was on target. Detailed information can be found in Appendix D.

There was brief discussion on plumbing installation costs based on data published by RS Means Company and that used by IFT in their update of the cost/benefit study.

Roy Gottesman noted that the information presented in his letter to Mike Barish dated August 12th indicated that while there were minor differences between the Means data and that of IFT, the differences are not large enough to negate the overall cost benefit in using PVC pipe versus metal pipe. No further action on this subject is needed.

In connection with a problem brought to the attention of Peter Lloyd of BFGoodrich Company by a customer, Roy Gottesman indicated that he had written to Dick Church regarding PVC threaded joints seeking their advice and help regarding the clauses in IAPMO which seem to discriminate against PVC female screw fittings.

#### Assignment:

Mike Barish took the assignment to check with Dick Church, as no response had been received on this letter. Further, he will determine when Dick Church plans to visit Uni-Bell, as he had been invited to do.

### IX. REVIEW OF ASSIGNMENTS

Chairman Michael Barish reviewed all of the assignments agreed to during the meeting:

Mike Barish took the assignment to check with Dick Church, as no response had been received on a letter regarding PVC female screw fittings. Further, he will determine when Dick Church plans to visit Uni-Bell, as he had been invited to do.

Ron Bishop and Bob Walker will discuss with the Uni-Bell Market Development Committee the desirability of a joint meeting with polyethylene pipe producers. If they feel that this is desirable, they will so advise Roy Gottesman, who agreed to talk with Stan Mruk about such a meeting.

Ron Bishop and Bob Walker have the assignment to review this planned program with the Uni-Bell Market Development Committee on September 17 and then to advise Vinyl Institute PRO how we can be of help to them in promoting PVC pipe for these expanded uses.

Roy Gottesman accepted the assignment to give the slide presentation that he will give at the SBCCI Seminar in Tampa on October 30 at the next PRO meeting.

Roy Gottesman and Dan Stanowick will prepare an appropriate letter to go out to the influentials some time in November with the prospects lists and new literature.

Roy Gottesman will talk with John York of EVC to see whether EVC is planning to present a paper at the Plastics Pipe VIII Conference and will advise PRO. Dependent on EVC's decision, the desirability of the Vinyl Institute sponsoring a paper can be decided.

Peter Lloyd took the assignment to review old literature relating to polyethylene pipes to determine if there is anything that would suggest that hydrostatic testing should be incorporated in the C906 standard.

PRO members are to review this updated technical bibliography and provide Dan Stanowick with changes, if any, no later than October 1.

PRO members on the Communications Subcommittee are to review the draft press release on the IFT Cost/Benefit Study and provide comments to Dan Stanowick.

PRO members are to provide Bob Walker with any suggested changes or revisions on the AWWA questionnaire no later than August 30.

Dan Stanowick will determine whether there is still time to place ads in annual editions of Municipal Index and Public Works Manual or whether their advertising deadlines have been passed.

Dan Stanowick has the assignment to make a recommendation to PRO with regard to a follow-up market research survey regarding the perceptions of PVC large diameter pipe to determine the effectiveness of the current advertising program.

Dan Stanowick will complete the revisions on the technical bibliography sometime after October 1 and send same to Al Reventas for final review before it is printed.

Dan Stanowick is to prepare a one-page synopsis to cover the summary of the IFT 1988 Cost/Benefit Study.

Dan Stanowick will provide Bob Walker with information on Constructioneer magazine and the article that they have indicated an interest in.

Dan Stanowick has the assignment to send Ron Bishop copies of all case histories used in the PRO promotional campaign.

Bob Walker will check with the Uni-Bell Market Development Committee at its meeting on September 17th to determine whether Uni-Bell would be able to fund ads in Municipal Index and Public Works Manual estimated at a cost of \$4,000-\$5,000 per placement, assuming that the deadlines have not been passed.

Bob Walker is to advise Dan Stanowick when the AWWA standard on C907 pipe is formally approved, which is expected in 30 days.

Bob Walker will review information from Dan Stanowick on Constructioneer magazine and if it appears that this would be a useful placement, Bob agreed to write-up such an article which could be offered to the magazine.

Bob Walker will check to see whether the PRO mailing list has been received and if not, will request Roy Gottesman to provide a second copy.

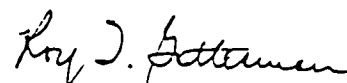
Martin White is to review the updated "influentials" list and return it to Roy Gottesman by October 1 with any changes/additions/revisions.

#### IX. NEXT MEETING DATE

The next meeting of PRO was decided to be held on Wednesday, December 4, 1991. Attempts will be made to have this meeting held at the Airport Hilton Hotel in New Orleans, Louisiana.

There being no further business, the meeting was adjourned at 4:00 p.m. on motion of Peter Lloyd, seconded by Cal Rehfuß.

Respectfully submitted,

  
Roy T. Gottesman

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## PIPE RESOURCE ORGANIZATION

Airport Hilton and Conference Ctr.  
901 Airline Highway  
Kenner, Louisiana 70062

Wednesday  
December 4, 1991  
8:00 a.m.

- 8:00a            I. SELF-INTRODUCTIONS
- 8:02a            II. APPROVAL OF MINUTES OF  
                 AUGUST 29, 1991 MEETING
- 8:05a            III. OBJECTIVES OF MEETING                    M. Barish
- 8:15a            IV. AGENCY REPORT ON MARKETING/  
                 COMMUNICATIONS PROGRAM                    D. Stanowick
- A. Advertising
- B. Follow-Up Market Research
- C. Information Kits/Literature Fulfillment
- D. Publicity/Case Histories
- E. Other
- 9:15a            V. INFLUENTIALS LIST UPDATING
- A. Review and Updating of List            M. White
- B. Letter to Influentials
- 9:30a            VI. UNI-BELL COOPERATIVE PROGRAM                    R. Walker
- A. Pivotal Cities
- B. Handbook
- C. AWWA RF Project RFP 708
- D. PRO Mailing List
- E. Staff Engineer Replacement
- F. Report on 11/13 Uni-Bell  
                 Board Meeting Decisions
1. Ad in Annual Index Issue
2. Large Diameter Pipe Production
- 10:30a                                    B R E A K
- 10:45a           VII. REPORT ON OCTOBER PPFA SEMI-  
                 ANNUAL MEETING                    M. Barish
- 11:00a           VIII. CALIFORNIA ENVIRONMENTAL IMPACT  
                 REPORT STATUS                    R. Gottesman

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|         |                                                                                     |              |
|---------|-------------------------------------------------------------------------------------|--------------|
| 11:30a  | IX. SOLVENT CEMENT ISSUE (SCAQMD)                                                   | R. Gottesman |
| 12 Noon | L U N C H                                                                           |              |
| 1:00p   | X. CODE ISSUES/ASTM UPDATE                                                          | P. Lloyd     |
| 1:45p   | XI. MEDIUM DENSITY POLYETHYLENE<br>MONITORING                                       | P. Lloyd     |
| 2:00p   | XII. NEW BUSINESS<br>A. Appeals Court Reversal<br>of Asbestos Pipe Ban              | Group        |
| 2:30p   | XIII. BUDGET REVIEW<br>A. Current Budget<br>B. Budget Development<br>For FY '92-'93 | R. Gottesman |
| 3:00p   | XIV. REVIEW OF ASSIGNMENTS                                                          | M. Barish    |
| 3:15p   | XV. NEXT MEETING DATE/LOCATION                                                      | Group        |
| 3:20p   | XVI. ADJOURNMENT                                                                    |              |



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## ELECTRICAL MATERIALS COUNCIL

The Electrical Materials Council has held one meeting since the last Board meeting in September.

The key activities of the council which have either been completed or are underway at the present time are as follow:

- Work continues with G. Sandino to translate our 50th anniversary release into Spanish for distribution in Latin and South America.
- The Electrical Materials Council has conducted presentations at the following trade gatherings:
  1. SBCCI, two hours, four speakers, we are considering taping the presentations for future use.
  2. Construction Specification Institute Conference, 1/2 hours, IFT cost study.
- The third Electrical Connection Newsletter distributed through the fulfillment house.
- The "50th" anniversary background paper on vinyl in Electrical Material Applications has been completed and distributed to member companies. Merchandising to key publications continues.
- Conceptual design of a video on vinyl has been reached. Script and locale selection is in progress. This is being coordinated through the Communications Committee. Video should be available in December.
- Year-to-date and annualized expenses are within Budget.

Attached for your information are minutes from the previous Council meeting, and the Council Mission Statement.

# Electrical Materials Council

## Mission Statement

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Proactively promote the use of vinyl in electrical applications.

- Educate the general public, code bodies, legislators, and specifiers on the benefits and misconceptions regarding the use of vinyl in electrical applications.
- Sponsor research and provide a source for information of the safe use, environmental impact and benefits of the use of vinyl in electrical applications.
- Identify opportunities to expand the use of vinyl in electrical applications.
- Develop synergism between the Vinyl Institute and other industry/trade groups in the electrical end use markets.
- Monitor code and competitive product activities identifying required actions.

# minutes

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## ELECTRICAL MATERIALS COUNCIL

Edward Howard and Company  
1021 Euclid Avenue  
Cleveland, Ohio

Thursday  
September 5, 1991  
1:00 p.m.

### Attendees:

Pat Benkner, Vinyl Institute  
Roy Gottesman, Vinyl Institute  
Nora Jacobs, Edward Howard and Company  
Len Krauskopf, Exxon Chemical Company  
Peter Lloyd, BFGoodrich Company  
Mary Mahon, Borden Chemicals and Plastics  
Mike Reynolds, Vista Chemical Company  
Rick Smith, Vista Chemical Company  
Dan Stanowick, Edward Howard and Company  
Bob Strength, Product Safety Management  
Bob Zajac, Edward Howard and Company (in part)

### I. SELF-INTRODUCTIONS AND APPROVAL OF MINUTES OF PREVIOUS MEETING

Chairman Rick Smith opened the meeting and a round of self-introductions followed. On motion of Peter Lloyd and seconded by Mary Mahon, the minutes of the May 30, 1991 meeting in Dallas, Texas were approved as received.

### II. OBJECTIVE OF MEETING

#### A. Purpose and Objectives of Meeting

Rick Smith stated that there were no major decisions that needed to be made at this meeting. The objectives were to review the progress on the video and to make sure all programs are on the right track.

#### B. Review Action Items

All action items from the May 30, 1991 meeting were reviewed. All of the actions items have been covered with the exception of #15.

Action: Roy Gottesman is to discuss with the Technical Committee on September 12 action item #15 which is "Bud Hall to talk with Chuck Bush to

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come up with a full comparison of the 4 major wiring systems fire modeling (Fluoropolymers, PVC, Polyolefin, and Chloro-sulfonated rubbers) in a way that the average person in the field can read."

### III. BUDGET

Roy Gottesman briefly reported on the 1990-1991 fiscal year ending May 31, 1991 and reviewed where we are to this point in the new year.

Roy Gottesman asked that the Council keep in mind that anything that is sent out by our literature fulfillment house, ADH, can be expected to cost approximately \$0.50 per piece.

He also noted that Pat Benkner is giving Dan Stanowick other expense amounts that he does not see such as ADH and PPP. Rick Smith told Dan Stanowick that if the expenses get close to the budgeted amount, he is to make Rick aware of this.

### IV. CODE MATTERS

#### A. Update

Bob Strength reported on the following:

#### 1. BOCA Code Change Affecting Vinyl Siding

Bob Strength reported that a challenge on administrative grounds will be made at the upcoming BOCA meeting with regard to the proposed BOCA code change which would adversely affect vinyl siding. This is the same proposal which had been rejected and held for further study at SBCCI.

#### 2. National Electrical Code

Bob Strength reported that except for Code Panel 6, all other panels had rejected proposals for the next national electrical code that involve special designations such as non-halogen (NH), low smoke (LS), or low rate of heat release (LHR). He noted that at the Electrical Materials and Products Subcommittee of CCFS last week, the group had voted not to support any such special designations except for LS. The NEC panels will meet in San Diego in December and Rich Gottwald will formally advise NEC of the SPI position.

### 3. Corrosivity

Bob Strength is a delegate to IEC '89 which will be meeting in September in Paris to consider tests for corrosivity. In addition to the DIN and CNET tests, two tests under consideration by ASTM D 5.21.70 and D 9.21.4 will be considered. A policy on corrosivity has been reviewed and agreed upon by CCFS and a number of the proposed corrosivity tests do not meet the criteria of this position paper.

D 9.21.4 involves the use of a cone calorimeter coupled with the NIBS apparatus and corrosion probes. It is being promoted by DuPont, whereas the ASTM D 5.21.70 group is evaluating a different test being advanced by Union Carbide and other non-halogen-containing product manufacturers. The European tests that involve collection of acid gases followed by titration are not performance tests and are not satisfactory from our point of view.

#### B. SPI Coverage of Code Matters

Roy Gottesman reported on a conversation he had with Pat Toner regarding the retaining of Joe Zicherman by SPI for representation on IAPMO rather than the Vinyl Institute. On the assurance that the Vinyl Institute interests at ICBO, BOCA and SBCCI would be handled by Rich Gottwald and SPI-retained consultants, Roy indicated that he had agreed to split the costs for retaining Joe Zicherman and IFT to consult for SPI at IAPMO during the current fiscal year. This will amount to \$3,000 plus one-half of the receipted expenses.

Inasmuch as the current budget would allow the payment of \$1,000 per month or \$12,000 per year for Joe Zicherman to cover both ICBO and IAPMO during the current fiscal year, this new arrangement will allow the Vinyl Institute to save some \$6,000 in consulting fees with IFT this year. This is in addition to the money that will be saved by not retaining Benjamin/Clarke to monitor the other codes. It was noted that any arrangements for future years will have to be negotiated with Pat Toner and SPI for the next fiscal year.

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## V. NEMA - SPI LIAISON GROUP

It was reported that Bud Hall is the VI representative to this group that will include representation by the Polyolefins Performance Council and the Fluoropolymers Division.

## VI. UPDATE ON VI ACTIVITIES

Roy Gottesman updated the Council on various VI activities as follows:

The NRT device has been installed at Steiner Liff and the Nashville Recycling Program will be launched this month. It is a 6-month pilot program called "It's As Easy As 1,2,3" where all plastic containers coded with the SPI code numbers 1,2, and 3 will be collected. BFGoodrich, Georgia Gulf and OxyChem will be working out a buyback program for the separated vinyl.

There is 99.5-99.7 purity with the NRT device. The Vinyl Institute and CSWS are providing funds to DevTech labs to further the development of technology for separating vinyl flakes from PET flakes by a "dry" process.

Roy Gottesman reported that VERCE has received 22 calls the first month, 50 the second and 200 the third.

He noted that a draft copy of the Chem Systems Lifecycle Assessment is now under review and it shows that vinyl amongst packaging materials is one of the most energy-efficient.

A vinyl chloride specific transportation mutual aid program has been formed under the Chemical Manufacturer's Association Chemstar Program.

Union Carbide Chemicals and Plastics was admitted as a full member on July 1.

## VII. PUBLIC RELATIONS STATUS REPORT

### A. 50th Anniversary Backgrounder

Dan Stanowick reported that the backgrounder has been completed and has been shared with the VI Communications Committee in order for member companies to use it within their own organizations. Copies went to the group with a draft letter for use with member company sales and marketing personnel and for member company customers to use in their own communications.

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Copies of this backgrounder were also sent to a select group of major industry trade magazines on an exclusive basis suggesting they may want to use it.

Dan noted that the Journal of Vinyl Technology will be running this backgrounder in its entirety in their December issue. He noted that this will enable us to have this backgrounder in "reprint" form as was suggested for a format at an earlier meeting.

Roy Gottesman noted these reprints will be very useful and also suggested to Dan Stanowick to contact Bob Braddicks, editor of the Journal of Vinyl Technology in order to do a guest editorial.

Action: Dan Stanowick is to contact Bob Braddicks of the Journal of Vinyl Technology in order to discuss doing a guest editorial.

Rick Smith noted that he distributed the backgrounder to all employees of Vista.

Action: Rick Smith is to send Dan Stanowick the Spanish translation of the 50th Anniversary Backgrounder.

B. Electrical Connections

Dan Stanowick reported that he expects to have the next issue of Electrical Connections printed and delivered within the next 10 days. This will go to the Electrical Materials Council inquiry list and the 2 new lists produced by the Electrical Materials Council.

Because of the first mailing of a technical paper to these two new EMC lists within a week, it was decided that Dan should hold the next issue of Electrical Connections for another 3-4 weeks before issuing it.

C. SBCCI Conference

Dan Stanowick reviewed the presentations for this conference and noted that after Peter Lloyd's talk on vinyl in construction applications, Roy Gottesman will report the results of a Public Attitudes survey conducted by the Vinyl Institute on the views of builders, architects and code officials on vinyl in building applications.

Dan noted that SBCCI had no problem with the Vinyl Institute videotaping the presentation, but that they would not allow any more lighting in the room. This made

it very questionable as to the quality of the video, which would be at the mercy of the conditions of the room.

Roy Gottesman suggested videotaping a staged version of the presentation beforehand.

Len Krauskopf questioned having a lack of audience participation in interaction in a staged version of the video.

After much discussion, it was decided to defer the decision of videotaping this presentation until after the conference.

D. Direct Mail Campaign

Dan Stanowick reported that two lists have been developed and put on the ADH computer and the first mailing will be going out this week.

E. Video

Bob Zajac briefed the group on the video that is being produced.

There will be 10 scenes in the video. Scenes 1 through 4 would be identical in all of the videos; scenes 5 through 7 will be specific to each of the 4 areas (electrical, packaging, construction and issues in general that vinyl faces); and scenes 8 through 10 will be identical in every video.

The individual scenes (#5 through 7) will show the overall diversity and demonstrate vinyl's performance in each of the specific industries.

Bob Zajac suggested this video could be used in a supplemental role with retailers and customers, it could be used with waste management firms, opinion leaders, legislators and also at trade shows and in speaker kits.

Bob Zajac stated that he sent a blueprint of the 10 scenes to VI personnel and Edward Howard personnel for their comments. Spokespersons in the video would be a chemist, a contractor/specifier, a packaging designer, an electrician, a doctor, a telephone cable installer and an engineer.

Each scene would be 30 seconds to 1 minute in length. Scene 1 and 2 introduce the chemist and the contractor/specifier, scene 3 would have most of the other

people to expand on the most common uses of vinyl, and scene 4 would have the chemist once again talking about the physical properties of vinyl.

Scenes 5 through 7 for the electrical part of the video would include a specifier in commercial construction projects talking about the broad use in wiring, a chemist talking about fire performance and addressing the fire toxicity issue and a contractor/specifier to talk about vinyl recycling specific to the electrical industry.

It was pointed out that a contractor/specifier would not be a good person to talk about vinyl recycling.

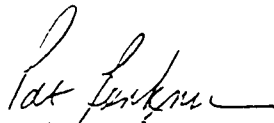
Scene 8 would have a chemist talking about the disposal options for vinyl involving recycling and incineration, scene 9 would have a contractor/specifier talking about how recycled vinyl is being used and scene 10 would include all of the people introduced earlier with a short clip on the future of vinyl in their industry.

Dan Stanowick suggested promoting this video through the Electrical Connections newsletter.

#### VIII. NEXT MEETING

The next meeting of the Electrical Materials Council will be held on November 14, 1991 from 8:30 a.m. to 12 noon at the Edward Howard offices in Cleveland, Ohio.

Respectfully submitted,

  
Pat Benkner

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## VINYL PACKAGING COUNCIL

This report summarizes Council activity since the last Board meeting, including decisions reached at the Council's October 2, 1991 meeting:

### Bottled Water Campaign

The Council was represented with a booth at the 1991 trade show of the International Bottled Water Association in Dallas, TX, October 10-12. Approximately 150 inquiries were received and passed along to the VI member companies for response. Ron Marston and Paul Zorzi of Georgia Gulf assisted VI and Edward Howard & Co. staff in booth duty.

A decision was made at the Council's October 2 meeting to discontinue the one-page ad in the Bottled Water Reporter (a bi-monthly publication of the IBWA) after the October/~~November~~ issue. Also, the Council decided not to conduct its previously planned follow up research on the position of vinyl packaging in this market and to reallocate the designated funds to other activities.

### Packaging Customer Seminars

With the money saved from the bottled water campaign, the committee decided to initiate a program aimed at the end-user specifier to update them on vinyl packaging issues including topics related to solid waste management. It was decided to hold an initial, trial by-invitation-only seminar in northern New Jersey January 28, 1992. Should this approach prove successful, additional seminars will be considered during the development of the Council's proposed budget for FY 1992-93. Final planning is now underway.

### Retailer Briefings

The Council has undertaken a program to educate key segments of the retailing community on vinyl packaging and its place in the waste stream. An initial meeting was held September 18 with eight K-Mart Corporation executives, including brand managers. Participants in this briefing in addition to VI and agency staff included Jim Mullen of American Mirrex and William Carroll of OxyChem.

Additionally, Bob Burnett of the VI was invited to participate in an October 25 briefing on vinyl's role in the solid wastestream before the Solid Waste Action Team of Kraft General Foods.

### Literature

One-page fact sheets on vinyl packaging and on vinyl film and sheet applications are under development and will be added to the Council's Information Kit. The entry form for the 1992 VIP Awards Program is now being prepared.

### Publicity and Media Relations

- . A feature article on Kodak camera's vinyl packaging was published in the October issue of Packaging Digest. This article was prompted by the Council's publicity on the 1991 VIP Award winners.
- . The October issue of Prepared Foods contained an article on vinyl for food packaging applications. This article was a result of the Council's July 1991 media tour.
- . Agency staff conducted and distributed an analysis of advertising promoting the recyclability or environmental friendliness of other packaging materials. This survey was conducted for use by the member companies as well as to provide a framework for possible future advertising activities.

Kim Mathieu/Atochem  
Chair  
November 18, 1991

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## VINYL INSTITUTE TECHNICAL COMMITTEE

### NOVEMBER, 1991 STATUS REPORT

#### MISSION STATEMENT

The mission of the Vinyl Institute Technical Committee is to provide technical support to the proactive VI Task Forces and to VI activities which address regulatory, health, environmental, and other marketplace issues which impact on the existing and future uses of vinyl products.

Fulfillment of this mission encompasses five general categories:

1. Development and documentation of scientifically sound information regarding the performance of vinyl products and execution of research projects which fill important technology gaps pertinent to the use of vinyl products.

2. Technical support to the VI Proactive Task Forces (Electrical Materials, PRO, and Packaging Council).

3. Participation in the presentation and promotion of scientific facts about vinyl products to audiences such as government, industry organizations, and environmental organizations.

4. A proactive "early alert" function which recognizes coming issues, recommends action, and takes appropriate action.

5. Liaison with other trade associations and consensus standards organizations (e.g. ASTM) to further the interests of the vinyl industry.

#### KEY PROGRAMS

##### A. PVC ECOBALANCE/LIFE CYCLE ANALYSIS

Budget: \$37,500

Expected Expenditure: \$37,500

Goal: Develop credible life cycle analyses comparing the environmental and energy impacts and benefits of vinyl products and key alternative materials.

Milepost: Complete first analysis on rigid containers and film/sheet materials by May, 1991.

Status: The Chem Systems project has been completed, and a draft report has been reviewed by the Ecobalance Subcommittee of the Technical Committee. We have received comments from the European

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Task Group on PVC ecobalances and are reviewing them. We are pushing the key environmentalists who received copies of the draft report for their critiques. We expect to complete our review of these inputs and to issue the final report by early 1992. We will present the results of the study to the VI Executive Board at the March, 1992 Board meeting.

#### B. SOLID WASTE MANAGEMENT

Budget: \$17,000  
Expected Expenditure: \$17,000

1. All recycling-related programs are handled by VIGOR and are reported in the VIGOR report.
2. Carry out research demonstrating that vinyl in municipal solid waste streams can be incinerated safely.

**Swedish/Norwegian Incineration Projects.** Across Europe there continues to be a widespread perception that the presence of PVC in municipal solid waste is responsible for dioxin and furan emissions. Through our consultant, Dr. Richard S. Magee of NJIT, we are involved in the planning and execution of studies in Sweden at the University of Umea and in Norway at the Center for Industrial Research (SI) which are intended to provide further scientific rigor to definition of the role of PVC in dioxin/furan emissions and consequently to gain greater acceptance for the incineration of PVC in the European community. These studies are being guided by a steering committee consisting of incineration experts from Belgium, Germany, Sweden, and the U.S. (Dr. Magee).

**Status:** The third steering committee meeting was held in Goteborg, Sweden in November. The Swedish project has been delayed for six months due to problems in cooling exit gases from the pilot incinerator. A solution to this problem has been built and is being tested. We reached agreement on feedstock composition and experimental protocols for the next two stages of the program in Sweden.

The Norwegian project has intended to use PVC with radioactive chlorine atoms in the incinerator feedstock to determine the distribution of chlorine in dioxins and furans from alleged precursors. They continue to be plagued with operational problems with the incinerator. They have apparently finally succeeded in synthesizing PVC with radioactive chlorine. This study is not directly linked to the Swedish study, but its results may be useful when analyzing and interpreting the Swedish results.

### C. FLAMMABILITY/COMBUSTION TOXICOLOGY

Budget: \$105,000  
Expected Expenditure: \$105,000

1. Maintain a presence in the area of combustion toxicity test methodology and hazard analysis to ensure that such methods are based on good science and accurately reflect the fire safety of vinyl polymers.

#### NIBS Combustion Toxicity Test.

Goal: Make sure that the scientific shortcomings in this test method are recognized.

Status: The NIBS method failed the first balloting in the ASTM E5 subcommittee. A meeting of the ASTM E5.21 Task Force is scheduled for December 9 to resolve the negative ballots. The likelihood of resolution is low. Our critique of the method has been accepted by the Journal of Fire Sciences and should publish by the end of 1991.

#### Other Test Methods.

The VI (through Marcelo Hirschler) voted negatively on the ASTM E5.21 ballot on a modified version of the NIST test. This was because of a lack of a carbon monoxide correction factor and no method of data evaluation in the protocol.

#### New York City.

The NYC Toxicity Committee appears to be favoring adoption of the New York State Protocol. Bud Hall is attending the SPI CCFS Executive Committee meeting on November 15 to discuss SPI's position.

2. Carry out research to address the alleged issue of corrosivity of combustion products of vinyl relative to other materials.

Goal: Put the potential for service interruption of electrical and electronic components by smoke from the combustion of PVC products relative to smoke from competitive products in the proper perspective. Service interruption encompasses corrosion, conductive sooting, and contact fouling.

Status: Negative ballots on both the NIBS and "cone calorimeter" test methods will be discussed at the ASTM meeting on Dec. 9. Both methods are likely to pass.

A test protocol using both small and large scale corrosion experiments has been developed and submitted to the VI Technical Committee. This will be discussed and acted upon at the Dec. 3 Technical Committee meeting.

3. HCl Decay. The completion of the final project has been delayed. A new completion date and project priority will be discussed at the Technical Committee meeting on December 3.

4. BOCA Vinyl Siding Issue. The VSI and SPI staff were able to have vinyl siding reinstated in the BOCA code. Some action to remove vinyl siding from the SBCC may occur, and we are monitoring the SBCC for any possible action.

#### D. MEDICAL/HEALTH EFFECTS PROGRAMS

Budget: \$3,000  
Expected Expenditure: \$3,000

1. Submit papers from the primate/rodent studies with HCl and PVC at Southwest Research Institute to journals for publication by March 31, 1991.

Status: The first of three papers has been completed and approved by the VI for publication. The remaining two are near completion and should be submitted to the VI for approvals by the end of the year.

2. Compile a compendium of critical papers on PVC fire hazard, toxicity, and health effects for educational purposes.

Status: Little action on this project is expected until the papers under item 1 are completed and submitted for publication.

#### E. SOLVENT CEMENT ISSUE

Budget: \$25,000  
Expected Expenditure: \$25,000

The Los Angeles area South Coast Air Quality Management District has proposed a regulation which effectively eliminates solvent cements as they are currently formulated as an allowed method for joining pipe. The concern is that this regulation could set a precedent for broad regulation elsewhere. A local group working with the SCAQMD got the regulation delayed from 1/1/91 to 1/1/93. Don Goodman of the VI Technical Committee is the Vice Chairman of the industry ad hoc task group which has been formed to deal with this issue and also with the NSF Standard 61 issue on diffusion of solvent from solvent cements into potable water.

The objectives of this group are threefold:

1. Carry out work to permit solvent cements to continue to be made and used in compliance with all applicable government requirements.
2. Generate and monitor technical information for communication with industry, regulators, legislators, and other interests.
3. Provide research and evaluation of technical alternatives for joining plastic pipes and fittings.

The newly formed industry group had a positive meeting with the SCAQMD in June to begin the necessary dialogue on this issue. A subsequent meeting in October had mixed results. SCAQMD appears to be taking a very strong stand relative to the proposed solvent content and to the 1/1/93 deadline. They expect to have reviews from either the industry or from individual companies on their reformulation efforts as a part of any discussion on potential extension of the deadline. We were able to point out the demanding performance characteristics required of pipe joints and the extensive testing required to approve another system or cement. We will continue to take this message to them so that they have a realistic understanding of the process required to develop and approve a new joining system.

Another problem is that the test method to measure VOC's from solvent cements is not yet finalized.

On the positive side, SCAQMD did seem to agree to the concept of "reactive diluent" which may give some relief from the absolute solvent content requirement. A technical seminar is scheduled at SCAQMD on Nov. 18 to discuss this subject further and to pass on our comments and critiques of what we know about the proposed test methods.

The industry group has also gotten a verbal commitment from NSF to delay the implementation of the solvent cement part of NSF's Standard 61 until 1/1/93 to coincide with the SCAQMD regulation timing. We are working to determine what level of toxicity testing will be required for THF, the major solvent in solvent cements, and to make sure that this testing is done.

C. N. Bush  
November 14, 1991

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## HEALTH, SAFETY & ENVIRONMENT COMMITTEE

Since the last Executive Board meeting, the Committee held one meeting on September 25. This regular committee meeting, preceded the Annual Meeting of the Vinyl Chloride Safety Association at which Mrs. Scheck gave an update on current activities of the Vinyl Institute. Activities of the committee since the last report to the Board include:

### Seminar on Labels and Material Safety Data Sheets

In conjunction with the Legal Committee, a special seminar to discuss labelling issues and Material Safety Data Sheets (MSDSs) for PVC compounds was held October 17. This seminar was a follow up to one held in July 1990 on labelling issues related to resins.

The program was organized by Don Goodman of OxyChem, with presentations made by those specific responsibilities for development of the company's MSDS program. Representatives of the following companies participated in the seminar: Atochem, Akzo, Argus/Witco, BFGoodrich, Georgia Gulf, CertainTeed, and Vista Chemical.

### Revised Unit Risk Factor for Vinyl Chloride

The committee has reviewed a proposal for a two-part research program aimed at the development of a new quantitative cancer risk assessment for vinyl chloride. Recognizing that there are no funds for this project in the committee's current fiscal year budget, Dr. Gottesman asked Committee Chairman Frank Borrelli to the December 12 Board meeting to discuss the need for this initiative which the committee intends to build into its budget request for next fiscal year.

### Spill Containment, Prevention and Reporting

Originally intended as a separate meeting, it was decided to hold this seminar immediately following the committee's September 25 meeting. This session, at which VI member company representatives shared information on how they address spill containment, prevention, and reporting, was based on a survey developed by Don Pearson of PPG Industries. Clark Graybill of PPG led the discussion. All participants thought the exchange of information was beneficial and agreed to conduct a similar exchange at a later date.

### Waste Minimization

The Waste Minimization Task Force, which has focused on the issue of the recycling of initiator containers, has not met since the last report to the Board. Individual company activities on this issue has slowed efforts of an industry approach. Should there be any action prior to the Board meeting, it will be reported at that time.

### FACTS about Working With PVC

The Vinyl Institute brochure "FACTS About Working with PVC" is being updated to reflect regulatory refinements since the brochure's last printing three years ago.

### Revised Toxicological Profile for Vinyl Chloride

The Agency for Toxic Substances and Disease Registry has released a revised toxicological profile for vinyl chloride along with similar reviews of 19 other chemicals. The committee will be reviewing this document to determine whether any comments need to be filed with the ATSDR.

### VI Environmental Awards

A revised, simplified formula has been developed to be used in the compilation of statistics developed to determine the winners of the VI Environmental Achievement Awards.

### Clean Air

The EPA National Air Pollution Control Techniques Advisory Committee is meeting the week of November 18 to review the Agency's progress on implementing the Clean Air Act Amendments of 1990. Also scheduled to be reviewed is the development of a new National Emission Standard for Hazardous Air Pollutants (NESHAP) for hazardous organics. This meeting is being monitored by a member of the committee as well as by SPI staff.

### VC NET

The working agreement for this group to function as a CMA Chemstar Panel is near complete. The group has scheduled vinyl chloride safety awareness programs in Lamar, Texas and Burlington, N.J. for 1992. Vinyl transportation routing information is also being assembled. All vinyl chloride producers and are participating including Formosa Plastics.

Frank Borrelli, Chairman  
November 18, 1991

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## LEGISLATIVE REPORT

### 1. Suffolk County Implementation Schedule Uncertain

The County legislature decided October 7 to consider further amendments on the County's ban on plastic grocery sacks, and take-out packaging and utensils made of polystyrene and polyvinyl chloride. The ordinance is scheduled to take effect January, 1992.

At the November 13 hearings before the Legislature, Stephen Rosario of the Council for Solid Waste Solutions testified, along with a coalition of other interested parties. The hearing record remains open.

The original sponsor of the ordinance, Steven Englebright, is reportedly amenable to considering amendments. And, the county Legislature, which has had a significant change in membership since the adoption of the 1988 ordinance, is also reportedly willing to consider amendments. The new County Executive, elected in November, has yet to appoint a new County Health Commissioner, one of whose responsibilities will be preparation of proposed regulations implementing the provisions of the ordinance. The new county executive is considered to be more pragmatic than his predecessor.

### 2. Massachusetts Packaging Initiatives Rewritten: Decision by End of Year or Ballot Initiative Process in 1992.

On September 30, the House Joint Natural Resources and Agriculture Committee approved HR 6133, a bill developed in an attempt to find "a compromise" between the proposed packaging bill of the Massachusetts Public Interest Research Group and an industry position. This bill as reported to the Ways and Means Committee would have affected rigid packaging between 8 ounces and 5 gallons until 2002, at which time all packaging (including flexible) would have to comply.

The bill would have proposed the following requirements:

- a. Packaging would have been required to have a 25 percent recycled content by 1996, with a goal of 35 percent by 1999 and 50 percent by 2002.
- b. A 20 percent reduction of packaging every five years, or 25 percent in the case of material substitution.
- c. A 25 percent recycling rate for all rigid packaging by 1996, with a goal of 35 percent by 1999 and 50 by 2002.

This bill mandated municipal recycling of yard waste, glass and metals by 1993 with the addition of plastic and paper in 1995. The effective date was July 1, 1996, provided that 60 percent of the resident in the state had access to multi-material recycling programs.

The outcome of this initiative is now further mired in politics. The Republican Governor (Weld) has stated that he wants to sign a bill. The speaker of the Democratic legislature, not wanting to be "out-greened" also wants action by the legislature.

The Chairman of the House Ways and Means Committee rewrote the bill that had been reported and introduced a substitute bill, HR 6244, a bill considered to contain a significant number of the MASSPIRG's original proposals.

This bill was noted on by the House on November 12. As approved, the bill will become effective when 50 percent of the state's population have access to recycling programs. This version applies to all packaging, rigid and flexible.

The bill is now pending before the State Senate and could be scheduled for consideration at any time. If a proposal suitable to MASSPIRG is not signed by the Governor by the end of the calendar year, a MASSPIRG initiative will be on the November, 1992 ballot. It has been estimated that to fight such as initiative could cost (conservatively) \$6 million.

The original MASSPIRG Initiative would have set the following criteria for "environmentally acceptable" packaging:

- . 25 percent recycled content by 1996, 35 percent by 1999 and 50 percent by 2002;
- . 25 percent reduction (by volume) of packaging compared to 5 years earlier;
- . all applications of material (for plastics, each individual resin category) must meet recycling rates that begin at 25 percent and escalate to 50 percent;
- . and be reusable or refilled five times as long as 50 percent of the products are returned or the product refill packaging meets one of the environmentally acceptable criteria.

The penalty provisions, which effectively constitute a ban, would impose penalties not to exceed \$100 per offense, with a cap of \$10,000 per shipment. Lastly, the proposal, effective July 1, 1996, does not make any provisions for a state-wide recycling infrastructure necessary to meet the criteria.

Additional background information is counsel's report under Tab L of the Briefing Book.

3. Florida: Solid Waste Debate continues

The solid waste and packaging debate in the State of Florida continues, with an increasing number of players. The Florida House Natural Resources Subcommittee on Environmental Protection held its first review meeting on the implementation of the 1988 Solid Waste Management Act on October 10. Sessions are continuing through November. And, both a special task force of the Florida Department of Environmental Regulation and Sen. Kirkpatrick's workshop group are examining advance disposal fee concepts. These fees are being examined as mechanisms to fund a recycling infrastructure. The Council for Solid Waste Solutions staff has been involved in this process.

A more up-to-date report will be given at the Board meeting.



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Chronology of Recent Developments on California EIR  
of Plastics Pipe

- December 1990 SRI delivered its "final" EIR on Plastics Pipe to California Department of Housing and Community Development (HCD)
- May 16, 1991 SPI California Counsel and Plumber's Union Counsel advised by HCD "additional work will be needed before SRI EIR conforms to the requirements of the California Environmental Quality Act (CEQA).
- July 18, 1991 SPI California Counsel and Lobbyist met with HCD attorneys. While California AG's review was only ca. 85% complete, there were some 100 problems with the text (editorial, inadequate evidence to support conclusions, misleading statements, etc). SRI had failed to properly respond to comments, particularly those made at public hearings in September and October 1990.

While the new HCD Director definitely wants to complete the EIR, manpower and financial resources are not available to do so due to the state budget crisis.

- Sept.12, 1991 SPI representatives ( Lew Freeman, California and Keller and Heckman attorneys) met with Travis Pitts, Deputy Director of HCD). HCD agreed to approach SRI about a meeting to correct major shortcomings in the "final" EIR. Pitts agreed that should that fail, HCD would pursue arbitration provisions under its contract with SRI.
- Sept.23,1991 HCD letter to Spencer Floyd, Manager of Contracts at SRI, proposing "a viable solution to producing an acceptable EIR in the least amount of time at the least expense for all those involved." This would involve a commitment by SPI of the time and expertise of its staff and retained counsel and by HCD to assist SRI in addressing HCD's comments. All parties would work side-by-side with SRI staff to make changes "on the spot".

HCD asked for a response in 10 days and if SRI did not indicate a willingness to cooperate, HCD would "declare a default" under the contract.

- Oct. 4, 1991 SRI response was positive indicating its willing to "explore means by which EIR can be revised without further significant expense". However, SRI advised HCD that some \$ 85,000 was owed to SRI by HCD representing final payment, withhold and "additional costs due to HCD delays and changes."
- Nov. 12, 1991 Teleconference between HCD, SRI and SPI representatives to establish an agenda for face-to-face meeting at SRI's headquarters in Palo Alto. SPI indicated a need to know the scope of the work to be done and who would be responsible for same.
- Agenda for such a face-to-face meeting would include costs by SRI for extra work, scope and responsibility of remaining work, availability of SRI technical information and personnel and process for making changes to existing document.
- Nov. 15, 1991 Conference call of SPI staff and counsel. After that, SPI California counsel requested SRI to:
1. Provide a detailed list of tasks to be done and who would be responsible for same.
  2. Determine if SRI can document advance approval by HCD for the "additional work" it seeks compensation for.
  3. Assurance that if HCD would encourage and request SPI's participation if it went to arbitration on the contract with SRI.

This is the status as of November 21, 1991. I will advise the Executive Board at the Board Meeting on December 12 of any developments after this date.

Roy T. Gottesman  
November 21, 1991

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VI Coordination with Chlor/Alkali Federation Liaison Group

In addition to the continuing excellent liaison established with Dr. Robert G. Smerko, President, and Joseph Walker, Director of Communications of the Chlorine Institute, there are two additional items that the Executive Board should be aware of:

1. Third Global Chlor-Alkali Symposium

On the following pages are copies of a letter that I sent to Bob LeBlanc dated October 10, 1991 recommending that the program for this symposium include a discussion of international issues affecting the vinyl industry and Bob's response dated November 4.

We will keep you advised of further information and details on this symposium which is to be held next October as we become aware of them.

2. Coordination of Activities with CMA Chemstar Panels

Enclosed is a letter dated November 11 inviting VI participation in a meeting in Washington, D.C. on Wednesday, November 27 which is self-explanatory.

I will attend that meeting and will provide the Executive Board with a summary of same at the December 12 Board Meeting.

Roy T. Gottesman  
November 21, 1991

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ATO CHEM NORTH AMERICA INC  
Three Parkway  
Philadelphia, PA 19102

ROBERT D. LE BLANC  
Group President  
Industrial Chemicals

Tel (215) 587-7784  
Fax (215) 587-7249

November 7, 1991

Mr. Roy T. Gottesman  
Executive Director  
The Vinyl Institute  
Wayne Interchange Plaza II  
155 Route 46 West  
Wayne, NJ 07470

Dear Roy:

As a follow up to our conversation and your letter of October 10, I'm pleased to advise that our current plans for the Third Global Chlor-alkali Symposium include a session topic on PVC, chlorinated waste and recycling. At our recent meeting in Brussels, geographic responsibilities for the development of this topic was assigned to Europe. Alan Bateman, symposium organizer, and Arseen Seys, Euro-Chlor President, will be contacting Dr. Freiesleben of ECVI to coordinate participation from the vinyl industry.

For your information, other session topics and geographic responsibilities are "currently" to be:

Responsible Care and chlorine - North America  
Economic importance of chlorine - USSR  
Technological solutions to chlorine issues - Japan

Public relations for the symposium will begin shortly. By copy of this letter to Bob Smerko, I ask him to keep you informed of our press activities. The Chlorine Institute will be managing press releases and other media communications in North America. You may want to advise your membership of the symposium's details as they evolve.

Please contact me if I can provide additional information.

Sincere regards,

Robert D. LeBlanc

RDL/pc

cc: A. Bateman  
R. Hunt  
A. Seys  
R. Smerko

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A Division of The Society of The Plastics Industry, Inc.

Roy T. Gottesman  
Executive Director

October 10, 1991

Mr. Robert D. LeBlanc  
Group President  
Industrial Chemicals  
Atochem North America, Inc.  
Three Parkway  
Philadelphia PA 19102

Dear Bob:

I greatly appreciated the opportunity of talking with you on Tuesday, October 8. Confirming our telephone conversation, this is to request that at the next group planning meeting of the Third International Chlor-Alkali Conference, you consider my recommendation that a time be provided on the program for a discussion of international issues affecting the PVC (vinyl) industry.

As I mentioned to you, over the past few years I have established a very close relationship with the European Council of Vinyl Manufacturers and, in recent conversation with Dr. Werner Freiesleben, my counterpart in Europe, I learned of interest in that organization in its participation in such a program. Further, we were visited by a delegation from the Japan PVC Association on October 7 and, as a result of that meeting, we will be establishing close liaison with that group including tripartite meeting participation.

If the planning group should be interested in developing such a session devoted to vinyl, I would be pleased to work with you to help organize this program. After your meeting in Brussels on October 29, I will be interested in hearing from you on this matter.

Kindest personal regards.

Sincerely yours,

RTG/bg

CTL009708



**Dow U.S.A.**

2020 DOW CENTER  
November 11, 1991

The Dow Chemical Company  
P.O. Box 1700  
Midland, Michigan 48677

**DISTRIBUTION LIST ATTACHED**

Dear Colleagues:

Many active public issues will impact chlorine and some of its derivatives. Members of our industry have created a variety of trade association entities to deal with specific issues. Our customers also participate in some of these organizations.

Some of us have discussed the need to better coordinate the efforts of the chlorine related CMA Chemstar panels, the Chlorine Institute, the Vinyl Institute, and various other groups. Most of the groups communicate to the public and government about health, safety, and environmental issues. It is likely that our messages will be delivered more consistently and efficiently with more formal planning and coordination.

For purposes of discussion of the merits of this idea and methods of implementation, the undersigned propose a meeting in Washington, D.C. Wednesday, November 27, beginning at 8:30 a.m. and ending at 12 noon. The proposed agenda includes a review of the charter and communications activities of each of the Chemstar panels, the Chlorine Institute, and the Vinyl Institute. The review will be followed by a discussion of alternatives for coordination of the efforts and record of any conclusions or follow-up actions.

We will hold the meeting at the CMA offices, 2501 M. Street, NW, and will have legal counsel present. Please advise John Duren (517-636-8310) of your availability and desire to participate in the meeting.

Sincerely yours,

John W. Duren  
Vice President  
Chemicals & Metals  
Dow U.S.A.

Charles E. Stewart  
Executive Vice Pres.  
Basic Chemicals Group  
Occidental Chemical Corp.

Robert L. Yohe  
President  
Chemicals Group  
Olin Chemicals

2020 DOW CENTER  
November 11 1991

Mr. Rae R. Burton  
General Manager  
Chlor-Alkali & Derivatives  
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Pittsburgh, PA 15272

Mr. Robert D. LeBlanc  
Group President  
Industrial Chemicals  
Atochem North America, Inc.  
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Philadelphia, PA 19102

Mr. Michael J. Ferris  
President  
Vulcan Chemicals  
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Birmingham, AL 35953-0390

Mr. William F. Patient  
President  
BFGoodrich  
Geon Vinyl Division  
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Cleveland, OH 44131

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Vinyl Institute Div. of SPI  
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Mr. R. J. Hunt  
General Manager  
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P.O. Box 13 The Heath  
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Mr. Robert Wiederhorn  
Business Director  
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Brandywine Building B-12268  
Wilmington, DE 19898

cc: Mr. Robert H. Burnett  
Executive Director  
Vinyl Institute Div. of SPI  
Wayne Interchange Plaza II  
155 Route 46 West  
Wayne, NJ 07470

Mr. Robert A. Roland  
Chemical Manufacturers Association  
2501 M Street, NW  
Washington, DC 20037

CTL009710



CTL009711

PROPOSAL FOR TRIPARTITE ORGANIZATION:  
VI/ECVM/JAPAN PVC ASSOCIATION

On October 7, an eight-man delegation from the Japan PVC Association visited the Vinyl Institute offices in Wayne. VI Chairman John Russ, VI Treasurer Bill Patient, VIGOR Chairman Fred Krause and Al Reventas of Shintech participated in the meeting along with VI Staff.

Near the conclusion of the meeting, Mr. M. Mukaiyama, President of Mitsubishi Kasei Vinyl Co. and President of the Japan PVC Association suggested establishing tripartite meetings for information exchange. Bill Patient suggested that two working groups be established - an executive group on policy matters and an operational group on information exchange.

A draft proposal for the Formation of A Coordinating Organization for International PVC Trade Associations was developed and can be found on the following pages. It has been reviewed and approved by Messrs. Russ, Patient and Krause. Further, the draft proposal has been approved in principle by Mr. Willem Prinselaar, Chairman of the ECVN working group and is to be discussed with the ECVN Steering Group during the week of November 25.

The draft is to be sent to Japan PVC Association for their comments and approval. It is anticipated that such a tripartite program will be inaugurated early next year.

Roy T. Gottesman  
November 21, 1991

CTL009712

Proposal for  
FORMATION OF COORDINATING ORGANIZATION FOR  
INTERNATIONAL PVC TRADE ASSOCIATIONS

Introduction

This is a proposal for consideration by:

European Council of Vinyl Manufacturers (ECVM), a division of the Association Of Plastics Manufacturers in Europe (APME) of Brussels, Belgium;

Japan PVC Association, Tokyo, Japan; and,

The Vinyl Institute (VI), a division of The Society of the Plastics Industry, Inc. (SPI) headquartered in Wayne, New Jersey, U.S.A.

for establishing close coordination by these three organizations.

The purpose of this document is to receive comments and input from officers and staff of the above named organizations so that a final proposal can be approved by all parties.

Background

The purpose of this coordinating organization is to assure that:

1. All parties are made aware of environmental, health, safety and related issues that have developed or may emerge in Europe, Japan or the United States that can impact (either favorably or adversely) on the PVC (vinyl) industry.
2. A procedure is established to facilitate interchange of technical literature, trade press articles and relevant publications between the parties.
3. A schedule of meetings on at least an annual basis to involve senior executives from industrial companies who are members of these trade associations, trade association executives and staff as well as chairmen of trade association committees to facilitate interchange of information and to develop mutually agreed-up strategies to address issues related to environmental, health, safety or public perception issues affecting the PVC industry.

This coordinating program will not involve the interchange of any proprietary technical or economic information. Further, no information relating to production capacities, plant expansions,

sales volumes, price information and other economic data will be exchanged unless such information will have been previously disclosed in the commercial business or trade press.

### Organization

It is proposed that the Coordinating Organization will consist of two groups, each of which meet at least annually, and more often if necessary, at a different location each year, rotating meeting locations between Europe, Japan and the United States. The two groups to be established are:

#### 1. Officers Working Group

The delegations from each trade association will consist of senior executives of member companies who serve as officers of their respective trade associations. They will meet to discuss policy matters and other issues on mutually agreed-upon matters. One executive from the staff of each trade association will also attend these meetings.

There will be no permanent officers for this Officers Working Group. The Chairman (or President) of the trade association in the host country will serve as the presiding officer for that meeting and the secretariat will be provided by the Chairman (or President) of the trade association that will host the following meeting of the Officers Working Group. The presiding officer and secretariat will develop a proposed agenda which will be circulated for comments and additions by meeting participants at least six (6) weeks before the scheduled meeting date. The final agenda, incorporating changes and additions recommended by meeting participants, along with full details as to meeting location will be provided no later than two (2) weeks prior to the meeting date.

#### 2. Coordinating Committee Chairmen Group

It is intended that this group will consist of committee chairmen of standing committees within each trade association such as the Technical, Communications, Solid Waste Management, Health, Safety and Environmental Committees or other mutually agreed upon committees. They will meet at a different time and location from the Officers Working Group each year.

The Executive Director (or his designee) of the trade association in the host country will serve as the presiding officer of the Coordinating Committee Chairmen Group and secretariat will be provided by the trade association that will be host to the Coordinating Committee Chairmen Group the following year. The presiding officer and the secretariat

will develop a proposed agenda for each annual meeting which will be circulated for comments and additions by the meeting participants at least six (6) weeks prior to the scheduled meeting date. The final agenda, incorporating changes and additions recommended by meeting participants, along with full details as to meeting location will be provided no later than two (2) week prior to the meeting date.

It will be the responsibility of the secretariat of each of these groups to provide complete minutes of each meeting within two (2) weeks after conclusion of the meeting. These minutes will include all agreed-upon actions as well as the responsibilities for completing these agreed-upon actions. The secretariat of the meeting will become the presiding officers of the next year's meeting of each group and the minutes will serve to help establish the agenda for the subsequent meeting.

The working language for all meetings will be English.

#### Meeting Schedule

The following schedule for the next three years is proposed:

| <u>Location of Meeting for</u> |                               |                                                  |
|--------------------------------|-------------------------------|--------------------------------------------------|
| <u>Year</u>                    | <u>Officers Working Group</u> | <u>Coordinating Committee<br/>Chairmen Group</u> |
| 1992                           | Europe                        | Japan                                            |
| 1993                           | United States                 | Europe                                           |
| 1994                           | Japan                         | United States                                    |

This schedule will be repeated in the following years.

#### Literature and Publication Exchange

At the initiation of this program, each trade association will provide the other two organizations with a complete listing of all technical and promotional literature it has published and will provide copies of each item. When information is in a language other than English, translations will be provided, if available.

Subsequently, it will be the responsibility of each trade association staff to provide copies of new literature to the other two trade associations when such new items become available. Significant new technical publications and trade press articles will be exchanged on a quarterly basis.



CTL009716

# PWResin

November 19, 1991

Roy Gottesman  
Executive Director  
The Vinyl Institute  
Wayne Interchange Plaza II  
155 Route 46 West  
Wayne, NJ 07470

Dear Roy,

Our recent sale of our two PVC plants to Westlake means we are no longer in the manufacture of PVC resin. Accordingly, please accept our resignation from The Vinyl Institute and my resignation from the Executive Board.

Our short membership in The Vinyl Institute was a very good experience. We commend The Vinyl Institute and its members for the positive progress on many programs over the years. As an active member of Uni-Bell, PWPipe will continue its association with The Vinyl Institute with specific emphasis on PVC pipe.

Best regards in your future endeavors.

Sincerely,



James K. Rash  
President

JKR/sc

cc: Mike Stickel

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