



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

P R O G R A M

The Vinyl Institute Executive Board Meeting

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

held at:

The Rittenhouse Hotel
210 West Rittenhouse Square
Philadelphia, Pennsylvania

CTL009737

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

- CTL009738

10:40- 11:00a	X.	OLD BUSINESS - CHLOR-ALKALI FEDERATION LIAISON	R. Gottesman
11:00- 11:45a	XI.	NEW BUSINESS	
		A. International PVC Symposium	R. Gottesman
		B. Coalition for Plastics Progress - Status Report	W. Patient
11:45- 11:50a	XII.	ORGANIZATIONAL ISSUES	
		A. Membership of Union Carbide	
		B. Other	
11:50- 12 Noon	XIII.	FUTURE MEETING DATES	
		A. December 12, 1991 Board Meeting	
		B. Other Dates/Location for 1991-1992	
		- March 11, 1992 - Houston, Texas	
		- May 27-29, 1992 - Southeast Coast	
12 Noon	XIV.	ADJOURNMENT	

PROGRAM
EXECUTIVE BOARD MEETING
SEPTEMBER 13, 1991

I. OPENING OF MEETING AND SELF-INTRODUCTIONS

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

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

It is in order to approve the minutes of the May 29, 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 May 29, 1991 be approved."

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

Mr. Russ will report on discussions held September 12, 1991 during the Executive Committee meeting.

IV. FINANCIAL REPORT

A. Final Financial Results For Fiscal Year Ending May 31, 1991

A final report for the fiscal year ending May 31, 1991 has been prepared and reviewed by SPI auditors. A copy of this report can be found under Tab B of the briefing book for this meeting. Dr. Gottesman will present this report and respond to any questions.

B. Status of Current Expenditures

A cash basis statement for the period ending July 31, 1991, the first two months of the current fiscal year, is included under Tab C of the briefing book for this meeting. Dr. Gottesman will present that information for review and discussion by the Board. If financial information through August 31st is available by the date of the Executive Board Meeting, it will be presented at that time.

V. SOLID WASTE MANAGEMENT

A. VIGOR

Mr. Fred Krause, Committee Chairman will summarize the group's activities since the Annual Meeting. Progress will be reported on the NRT evaluation in Nashville and the various demonstration projects currently under way. Additional information is to be found under Tab D of the briefing book.

B. Issues Management Activities

Mr. Burnett will give a status report on the key elements of our program with the Edward Howard Company including the VERCE activity, the industry training program, recyclers directory and the speakers bureau.

IV. PRO-ACTIVE TASK FORCES AND MARKET-RELATED ISSUES

Background report 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 chairmen or staff. Questions on activities of these committees are appropriate at this time.

VII. EUROPEAN UPDATE

Mr. York will provide a summary of significant developments that have occurred throughout Europe since the Annual Meeting.

VIII. CALIFORNIA ENVIRONMENTAL IMPACT (EIR) STATUS REPORT

Dr. Gottesman will update the Board on activities related to completion of the California EIR that have occurred since the issue was last discussed at the February 27, 1991 Board meeting.

IX. TECHNICAL, LEGISLATIVE AND REGULATORY UPDATE

Updates to supplement materials in the briefing book on the following will be presented at this time by either the committee chairman or appropriate staff (Technical Committee, Health, Safety and Environment Committee, Legal Committee/Legal Counsel and Legislative and Regulatory Update). Questions on items included in the briefing book reports and on the presentations are appropriate at this time.

X. OLD BUSINESS - CHLOR-ALKALI FEDERATION LIAISON

Dr. Gottesman will update the Board on continuing liaison with trade associations in the chlor-alkali industry including an

August 19, 1991 meeting convened by the Chlorine Institute. Background information is included under Tab N of the briefing book for this meeting.

XI. NEW BUSINESS

A. International PVC Symposium

Dr. Gottesman will review discussions related to interest in participating in an International PVC Symposium during 1992.

B. Coalition for Plastics Progress: Status Report

Mr. Patient will update the Board on activities related to the formation and operation of the Coalition for Plastics Progress, which is scheduled to meet on September 6, 1991.

XII. ORGANIZATIONAL ISSUES

A. Membership of Union Carbide

It is in order to approve the application of Union Carbide to be a member of the Vinyl Institute. A copy of the membership application as approved by the membership committee is included under Tab M of the briefing book for this meeting.

Motion: "I move that the membership application of Union Carbide Chemicals and Plastics Company, Inc. as a member of the Vinyl Institute be approved effective July 1, 1991."

B. Other

XIII. FUTURE EXECUTIVE BOARD MEETING DATES

Thursday, December 12, 1991*/Atlanta, Georgia
Wednesday, March 1991*/Houston, Texas (date to be determined)
Wednesday, Friday, May 27-29/Southeast

* There will be an Executive Committee meeting from 4:00 to 6:00 p.m. on the prior day.

XIV. ADJOURNMENT

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

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<u>Tab</u>	<u>Subject</u>
A	Minutes of Executive Board Meeting, May 29, 1991
B	Final Financial Report for Fiscal Year 1990-1991
C	Financial Report - Current Fiscal Year through July 31, 1991
D	Report on Vinyl Institute Group on Recycling (VIGOR) by Fred Krause, Chairman
E	Technical Committee Report by Dr. Charles N. Bush, Chairman
F	Report of Pipe Resource Organization by Michael Barish, Chairman
G	Report of Electrical Materials Council by Richard Smith, Chairman
H	Report of Vinyl Packaging Council by Meredith Scheck, Vinyl Institute
I	Report of Health Safety and Environment Committee by Frank Borrelli, Chairman
J	Report on Issues Management Program from Edward Howard & Co., Public Relations Counsel
K	Legal Counsel Report from Keller and Heckman
L	Legislative Update by Meredith Scheck, Assistant Director, Vinyl Institute
M	Membership Application from Union Carbide Chemicals and Plastics Company, Inc.
N	Report on Liaison with the Chlor/Alkali Federation Formation Group by Roy T. Gottesman

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briefing book for this meeting be approved as submitted. The second to the motion was made by Mr. Koral and the motion was approved by voice vote.

III. FINANCIAL REPORT

A. Status of Expenditures Through April 30, 1991

Dr. Gottesman reviewed the elements of the cash basis statement for the period ending April 30, 1991, as included under Tab B. Dr. Gottesman noted that the Cash Basis Statement shows some dues not yet credited, but commented that he has been assured that this issue will be settled. He reminded the Board that some payments for services may not be credited to this fiscal year's budget should the bills be received after the end of the accounting deadline for the Society of the Plastics Industry. In summary, he noted that the year-end budget is not anticipated to show any significant variances.

B. Proposed Budget for Fiscal Year 1991-1992

On behalf of the Vinyl Institute Treasurer Edwin Schiffer, Dr. Gottesman presented the proposed budget for Fiscal Year 1991-1992 (the period starting June 1, 1991 through May 31, 1992), as included under Tab C. Dr. Gottesman noted that at its May 7, 1991 meeting the Executive Committee of the Board had been presented a proposed budget with several options. He noted that the Executive Committee decided that the proposed budget presented to the Board would be based on a total contribution from the full members equal to the total this category contributed to the budget in the current fiscal year.

Dr. Gottesman noted that the elements of the indirect project portion of the budget are based on a five-year experience record, with inflationary adjustments for costs such as travel.

Relative to direct project costs, Dr. Gottesman commented that the legal budget is the same as the last several years, with variations of plus or minus ten percent. He stated that the Executive Committee proposed that the budget for the Issues Management activities (reflected in the communications line item) be set at a level of \$360,000. This level represents project elements which are clearly defined at the present time.

The Executive Committee noted that the original proposed expenditures in this area were at a higher level, and Dr. Gottesman noted that the Executive Committee agreed to

consider additional proposed expenditures in this area when other elements of the program were more clearly defined.

The proposed budget line items for all other committees include funding of projects that had been defined by the Committees as priority "A" projects.

Dr. Gottesman also reviewed the year-to-year comparisons of the elements of the FY 1990-1991 and FY 1991-1992 as included under Tab C, noting the most significant variations. These variations included a significant increase in the communications area (which reflects the support for the Issues Management activities) and a decrease in the Technical Committee budget (which reflects the recycling activities of VIGOR as a separate line item).

In response to a question from Mr. Patient concerning the specific committee budgets, Dr. Gottesman noted that the budget process used by the Institute allows for committee budget submittals to be made on the basis of priorities agreed to by the members of the committee.

Mr. Flammer stated that the Issues Management Program budget proposed by Edward Howard & Company was to be fully funded, but that he wanted the Board members to understand that an additional request for a further assessment might be needed during the year should all the program elements be clearly defined and supported by the Board.

There being no further discussion on the budget, Mr. Schiffer moved that the proposed budget for the fiscal year beginning June 1, 1991 as contained under Tab C be approved as submitted. The second was made by Mr. Russ and the motion was approved by voice vote.

IV. FUTURE MEETING DATES FOR THE EXECUTIVE BOARD

Following a brief discussion, it was agreed to revise the meeting schedule as proposed. The Board agreed to the following meeting dates and locations for the coming fiscal year.

Friday, September 13, 1991	Philadelphia, PA
Wednesday, December 11, 1991	Atlanta, GA
Wednesday, March 11, 1992	Houston, TX
Wed.-Friday, May 27-29, 1991	To be decided

Dr. Gottesman noted that some indication of suggested location for next year's Annual Meeting was recommended at this time

because bookings begin to fill up a year in advance. Mr. Flammer suggested Calloway Gardens. It was recommended that consideration be given to ease of air travel and that a southeastern U.S. location be pursued.

V. REPORT ON MEETING WITH "CHLOR/ALKALI FEDERATION"

Mr. Flammer noted that the Executive Committee met on May 7, 1991 with Dr. Robert Smerko of the Chlorine Institute and with Mr. Brad Lienhart of Dow. Mr. Flammer commented that the impetus for the meeting was a letter from Mr. Lienhart suggesting that the chlorine-using industry be organized into a federation or alliance in the United States.

Mr. Flammer reviewed the discussion as highlighted in the briefing book and stated that by the conclusion of the meeting agreement was reached that there were at least four areas in which additional cooperation should be pursued. These were transportation (VCM Emergency Response); state legislative and regulatory activity; implementation of Responsible Care; and Life Cycle/Ecobalance analyses and dioxin studies.

Additionally, in terms of an outreach program, it was agreed that closer coordination may either save funds or avoid both organizations having to spend scarce resources.

Dr. Gottesman noted that the Chlorine Institute, as part of its planned outreach program, is going to reproduce a video largely modeled after one produced by ICI entitled "Living with Chlorine". Mr. Prinselaar stated that this video was made available to customers, and he is aware that it has been shown to someone at the consumer level. Dr. Gottesman noted that Dr. Smerko has asked the VI to review the film from the perspective of identifying any issues, views, or photographs that should be revised.

After viewing the video, the Board discussed the approach used. Mr. Patient noted that he doesn't believe that the piece is an environmental tool, but rather a selling piece for chlorine. Mr. Flammer recommended that if the video is to be used for environmental reasons, then it should be revised to focus on uses which are largely not replaceable.

ACTION ITEM

It was agreed that Dr. Gottesman would ask Dr. Smerko for a copy of the proposed script before any shooting occurred and that the Institute also be provided with a clearer description of the objectives of producing such a video including a summary of intended audiences.

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VI. ELECTION OF EXECUTIVE BOARD OFFICERS

As required by Article VII of the Vinyl Institute Bylaws, a nominating committee was formed at the February 27, 1991 Executive Board meeting for the purpose of developing a slate of officers to serve for the period June 1, 1991-May 31, 1993. As noted in the material under Tab D, the Nominating Committee met and agreed to a proposed slate. On behalf of the Nominating Committee Mr. Shoun proposed the following candidates:

Chairman:	John L. Russ III
Vice Chairman:	Edwin S. Schiffer
Secretary:	J. Alan Bailey
Treasurer:	William Patient

Mr. Schroeder moved that the slate of officers proposed by the Nominating Committee be elected for a two-year term starting June 1, 1991. There were no other nominations received from the floor. The motion was seconded by Mr. Stefany and approved unanimously by the Board. Mr. Russ thanked the members of the Board and extended his appreciation to Mr. Flammer for the contributions made during the last two years. A round of applause for Mr. Flammer followed.

VII. NEW BUSINESS

Mr. Patient apprised the members of the Board that a group of chief executive officers have been meeting under the umbrella of the Chemical Manufacturers Association for the purpose of discussing the need for an expanded public outreach program targeted at public opinion vis-a-vis plastics and summarized the discussions to date. Mr. Thomas, President of SPI, noted that decisions regarding this program are to be made in conjunction with CMA at a June 7 CMA meeting at the Greenbrier. Mr. Thomas further noted that he believes the Executive Committee of the reformatted SPI Board would be the proper nexus of such an expanded activity.

VIII. ADJOURNMENT

Mr. Schroeder moved at 8:25 a.m. that there being no further business before the Executive Board, the meeting be adjourned. A second to the motion was made by Mr. Schiffer and agreed by voice vote.

Respectfully submitted,


Meredith N. Scheck

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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.

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OBJECTIVES/STATUS

COLLECTION

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

STATUS:

- Initiating Nashville/Steiner-Liff/VI collection program in September.
- Minneapolis/St. Paul efforts (CSWS)
- Initiated connection to Model Cities to collect vinyl and all rigid containers (CSWS)
- Rhode Island - initiating collection of siding
- Contact with Vinyl Siding Institute (VSI) to encourage re-starting siding collection with Shuman in northeast.
- Continuing collection by member companies

ACTION:

- Aggressively pursue model cities connection with other plastics (3-7) and CSWS
- 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:

- CPRR program complete. CSWS has program with Foster-Miller/MSS to provide complete automatic sortation system to be installed late this year 2nd generation ASOMA to sort PVC.
- NRT installed in Steiner-Liff with VI planned experiments to start 9/3/91 and commercial sortation immediately after. Reprise (EVC) unit operating. Three other units in operation and several in delivery or in construction.
- Devtech program with CSWS/VI/CARPCO progressing to pilot stage.
- Froth flotation technology to separate PVC/PET by RPI in Utah and Goodyear under evaluation by VIGOR.

ACTION:

- Commercialize PVC sortation. Aggressively pursue model cities connection with other plastics (3-7) and CSWS.
- Complete NRT evaluation at Steiner-Liff.
- Decision on froth separation support.
- Communicate/PR commercial use of automatic sortation.
- 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/BFGoodrich/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 Australia.

ACTION:

- o Continue dialogue on industry cooperation.

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 will be in place this fall.
 - 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 a little more visible. Most still underground.
- o Updated Recycling Directory issued.
- o VSI established environment/recycling as high priorities. VSI/VI dialogue continuing on cooperative efforts.
- o Industry efforts priority in ASTM/other to develop standards on recycling.

ACTION:

- o Complete demonstration projects.
- o Continue press for documenting case histories on recycling.

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.

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VINYL INSTITUTE TECHNICAL COMMITTEE

AUGUST, 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 of their report has been received and is undergoing peer review. The only product area we have reviewed so far is bottles. In this area vinyl comes out generally as the "low energy product". In other environmental risk areas (emissions to the environment) the various products examined do not have any clear broad-based advantages.

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The next steps in this program are to review the draft report, make any necessary changes, and to develop a plan for utilization of the results of the project. The money in the budget for 1991-2 is for follow-up studies on other product areas, if we choose to do so.

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 Norwegian and Swedish laboratory studies 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, Italy, Germany, Sweden, Norway, and the U.S. (Dr. Magee).

Status: A steering committee meeting was held in Oslo in June. It appears that good progress is being made in the Swedish study, and we are comfortable with the direction it is taking. The Norwegian project has encountered some technical issues, and Dr. Magee has suggested a redirection of this project to the steering committee. We expect that this recommendation will be discussed at the next steering committee meeting in November.

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. Our critique of the method has been accepted by the Journal of Fire Sciences and should publish by the end of 1991.

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: The Subcommittee on Flammability and Combustion Toxicity is meeting the week of August 26 to review and update our strategy in this area.

3. HCl Decay. Only one project remains to be completed and is expected to be done by the end of 1991.

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 papers are nearly complete and should be submitted to the VI for approvals in September.

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

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 the South Coast Air Quality Management District (Los Angeles area) regulation on solvent content of solvent cements for plastic pipe and 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.

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The SCAQMD has proposed a regulation which effectively eliminates solvent cements 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. The newly formed industry group had a positive meeting with the SCAQMD in June to begin the necessary dialogue on this issue. Our efforts to establish a dialogue with FMC, who is developing a VOC test method for SCAQMD, have been resisted so far, however.

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
August 22, 1991

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8/20/91

PIPE RESOURCE ORGANIZATION UPDATE

Minutes from the last PRO meeting of 5/30/91 are enclosed.

PRO will meet again on 8/29/91. The agenda is also enclosed. Minutes for this meeting should be available for the 9/13/91 Executive Board meeting.

Significant activities include:

I. Marketing/Communications Campaign

- A. *Advertising* - 3 ads on "Total Performance" "Versatility", and "Reliability" have been completed and will run in the AWWA Journal through May, 92. Continuation of ads into 92/93 is uncertain based on budget constraints.
- B. *Publicity* - New case histories have been developed, which are being published in various trade journals, etc. Most inquiries have been generated from publicity.

II. UNI-BELL COOPERATIVE PROGRAM

- A. AWWA Research Foundation will survey PVC water main performance.
- B. ASHTO approved a standard for storm sewer.
- C. Uni-Bell Handbook expected in September; Uni-Bell news published two times a year.
- D. Uni-Bell actively seeking replacement for field engineer.

III. PIPE INDUSTRY TRADE ASSOCIATION CONSOLIDATION

USPPA members have joined in mass with PPFA. PPFA and Uni-Bell will coexist and coordinate activities, and might form a federation some time in the future.

IV. SOLVENT CEMENT ISSUE/SCAQMD

A task force involving trade associations and manufacturers of fittings, raw materials and solvents continue to work towards the January 1, 1993 deadline.

V. CALIFORNIA EIR

Delays continue and additional funds are needed. SPI has been advised that the ABS and PB interests will have to handle the additional funds.

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VI. CODE MATTERS

Solid core PVC, ABS skin pipe has been introduced under "ABS" ASTM standard. This needs further investigation.

VII. NEW USE AREAS

Large diameter markets for storm sewer will be examined for potential gain.

The August 29th meeting will include a presentation by Carlon, and market information submitted by PW Pipe.

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PIPE RESOURCE ORGANIZATION

Four Seasons Resort and Club
4140 North McArthur Boulevard
Irving, Texas 75308
Conference Room 10

Thursday
May 30, 1991
1:00 p.m.

Attendees:

Michael Barish, Borden Chemicals & Plastics
George Dillon, Dow Chemical
Donald Goodman, Occidental Chemical
Roy T. Gottesman, The Vinyl Institute
Walt Hermes, Borden Chemical & Plastics
Nora C. Jacobs, Edward Howard & Co.
Bob Kelly, CertainTeed Corporation
Peter Lloyd, BFGoodrich Co.
Karen McDonie, Rohm and Haas Company
Jim Rash, PW Resin
Cal Reh fuss, Georgia Gulf Corp.
Al Reventas, Shintech Inc.
Fred Sacks, Occidental Chemical
Gonzalo A. Sandino, Petroquimica Colombiana, S.A.
Mike Stickel, PW Resin
Greg Torchiana, Rohm and Haas Company
Robert Walker, Uni-Bell PVC Pipe Association

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

Chairman Michael Barish opened the meeting at 1:00 p.m. and a round of self introductions followed. The minutes of the March 27, 1991 meeting were approved as received.

II. REVIEW OF PRO ACTIVITIES AND PROGRAMS -- FISCAL YEAR '90-'91

For the benefit of those persons attending this meeting who do not routinely attend PRO meetings, Chairman Michael Barish reviewed the mission of this pro-active group which is to promote the use of vinyl in PVC piping applications focusing on the expansion of the pipe market. He then highlighted the major activities undertaken by the group during the past year.

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III. AGENCY REPORT ON STATUS OF MARKETING/COMMUNICATIONS PROGRAM

As Dan Stanowick who normally handles this program for Edward Howard & Co. was attending the Electrical Materials Council meeting which was being held concurrently, Nora Jacob provided the Agency Report as follows:

A. Advertising Campaign

The third and final ad in the second ad campaign series is complete. It features Lowell Hendricks, Construction Projects Manager for Southern States Utility Services, Orlando, Florida on the subject of "Total Performance. This ad joins ads on "Versatility" and "Reliability" in the current series of three ads. The earlier three-ad series featured "Economics", "Water Quality" and "Durability" as subjects.

Ads are scheduled to be run in the AWWA Journal in July, September, November, March and May of the '91-'92 fiscal year. The "Total Performance" ad will be carried in the July AWWA Journal when that magazine has scheduled a special editorial feature on water distribution systems, including an article on analysis of the permeation of organic chemicals through plastic water pipe.

In addition, the ad on "Water Quality" which featured Paul Werner, water superintendent of the City of Corpus Christi, Texas was inserted into Municipal Index and Public Works Manual and inquiries are starting to come in.

B. Information Kit/Fulfillment Report

Ad reprints of the new series are being added to the PRO Information kit and case history articles will be converted into "PVC Pipe Resource Reports" format and added to the kit. A revision of the the technical paper on "Drinking Water Safety" is being worked on.

C. Case History Articles

Copy for three new articles, based on the new advertising testimonials have either been or are being approved by PRO and photos are being taken prior to media distribution to wide but non-competing media.

Previous case history placements have included Jack Dillard/Briley Wild in the May issue of Public Works; Paul Werner/Corpus Christi in the February issue of American City & Country; and William Gertsee/Cape Coral, FL in the February issue of Florida Specifier.

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Additional placements are pending with Waterworld News, Pipeline & Utilities Construction, Civil Engineering and Water Engineering & Management.

D. Other Publicity

Underground Focus is still planning a feature on pipe corrosivity. The editor of this magazine plans to contact Uni-Bell about PVC pipe.

American Public Works Association Reporter is working on a case history round-up about PVC, based on testimonials from APWA members.

City & State magazine has expressed a strong interest in updated figures related to the IFT Cost/Benefit study. New figures are being prepared in connection with a talk that Joe Zicherman will be giving to the Construction Specifiers annual meeting in San Diego in June. The agency is working with CSI's publicity director to get advance information, suggest interviews, etc. involving trade media planning to cover the meeting.

Other potential publicity opportunities include a special feature on "pipelines" in the November issue of Civil Engineering, a "Water Report" in the October issue of Engineering News Record; an article on "Water Distribution" in the July issue of Water Engineering & Management. Mr. Stanowick also will be looking for placement opportunities related to the release of SPI's market statistics and projections of market growth.

E. Inquiries

Inquiries for PRO information totalled 1,312 last year, largely being generated from publicity. Through April 30th, an additional 267 inquiries were received and, again, most of these came from publicity.

F. Other

A direct mail project has been completed in which a cover letter signed by Joe Zicherman of IFT and a reprint of his Fire Journal article "Is PVC Piping Firesafe?" were sent to IAPMO members.

There was brief discussion on some negative advertising by the Ductile Iron Pipe Research Association. Follow-up possibilities were: review the negative ads with Keller & Heckman and/or survey readership for impacts of such ads. No decision was taken to pursue either of these possibilities.

V. UNI-BELL COOPERATIVE PROGRAM

Bob Walker, Executive Director of Uni-Bell PVC Pipe Association reported on the following:

A. AWWA Research Foundation RFP 708

As reported earlier, AWWA Research Foundation had issued a Request for Proposal (RFP 708) for a project to survey the performance of PVC water mains. Following the survey phase, the project would then focus on problem areas that are identified. The project consists of a grant of \$100,000 but requires a 33% match by the group that is successful and is awarded the contract. Only two proposals have been received from Utah State and L. J. Broutman & Associates.

In an earlier survey of plastic water mains in 1987, PVC was thought of very highly in comparisons with other materials.

B. Pivotal Cities Program

Des Plaines, IL, outside of Chicago has approved PVC pipe for sewer mains. Dennis Bauer is in the Chicago area all week giving seminars and Bob Walker recently spent a week in New Jersey and plans revisits there. The program is ongoing.

In Fairfax County, VA, there has been a quality control problem involving iron pipe and Uni-Bell plans to talk with the Washington Suburban Sanitary Sewer District about PVC pipe as a replacement.

C. Uni-Bell News

The latest issue was distributed at the Uni-Bell Board of Directors and they have indicated their desire to look at publishing two issues per year. This is costly because postage is between \$10,000-12,000.

D. Uni-Bell Handbook

The new updated revised version featuring a black cover with gold lettering is expected to be available in September.

E. Other

Uni-Bell reports a success in the storm sewer area with a standard having been approved by ASHTO and is to be published in July.

Uni-Bell will be exhibiting at the AWWA Convention in Philadelphia which starts June 24.

Roy Gottesman is to provide Bob Walker with the complete PRO mailing list from ADH so that any names not on the current Uni-Bell News mailing list can be added.

VI. PIPE INDUSTRY TRADE ASSOCIATION CONSOLIDATION

Walt Hermes reported on a meeting held the previous week in which members of the Executive Boards of PPFA and Uni-Bell as well as their Executive Directors met. They have agreed to have joint annual meetings in future years, when current obligations to hotels have been satisfied. This may not take place for one or two years. The main thing is that both groups agreed that they each have strengths in their own areas and are doing things that are necessary. Some things could be done cooperatively to the benefit of both groups. The basic understanding is that both organizations would co-exist but coordinate.

At some future point in time, there could be some desire to form a federation where both PPFA and Uni-Bell are involved.

VII. CALIFORNIA ENVIRONMENTAL IMPACT 9EIRO ON PLASTIC PIPE

Roy Gottesman distributed copies of a letter from Dennis L. Beddard, an attorney with the California Department of Housing and Community Development (HCD) dated May 16 advising that the review of the "final" EIR by the Attorney General's Department was expected by the "end of this (May) month". Even though the review was not complete, he indicated that "additional work will be needed" so that the EIR conforms to the requirements of CEQA. Beddard indicated that they will therefore recommend to Mr. Timothy Coyle, the new Director of HCD, that he not certify the EIR.

Thus a further delay and additional funds will be needed to complete the project. The amount of money necessary will not be known until the deficiencies in the report are known and the money needed to correct these deficiencies is learned. Roy Gottesman stated that he had advised Larry Thomas and Lew Freeman that the ABS interests will have to step up to paying the additional costs as the deficiencies noted in the public hearings all related to ABS and PB and not to PVC pipe.

VIII. SOLVENT CEMENT ISSUE

Don Goodman provided a report on the meeting held in Dallas on May 16-17 by a Task Force that has been organized to deal with the regulations of the California South Coast Air Quality Management District on permissible VOC emissions from solvent

cements used to join pipes. Because the proposed regulation which would limit VOCs to 250 g/li cannot be met by current products, nor is there an agreed upon test protocol, Don Goodman noted that three separate sub-committees have been set up: Technical, Governmental Affairs and Communications. Members of Don's Technical Committee include Chuck Bush of BFGoodrich and John Kirtkpatrick of Vista Chemical. In addition to the technical problems related to VOC emissions, Don reported on a potential problem dealing with tetratogenic effects with certain components of solvent cements when testing is carried out under NSF Standard 61.

In summary, Don Goodman suggested that there may be "political solutions" to this problem in which:

1. NSF allows for a time extension regarding Health Effects Testing for Solvent Cements Under NSF Standard 61 to match the South Coast Air Quality Management compliance date of January 1, 1993;
2. South Coast and EPA allow a higher VOC level than 250 g/li.

Don Goodman has the continuing assignment to coordinat this technical activity for the Vinyl Institute and report on same through the Technical Committee.

IX. UPDATING OF "INFLUENTIALS" LIST

The original mailing list of "influentials" was reviewed by Messrs. Barish, Lloyd, Reventas and Sacks. Individuals no longer in influential positions were weeded out, additions to the list were made and a new composite list of influentials was developed. Roy Gottesman asked that Al Reventas review this new list before it is sent to our fulfillment house.

Al Reventas has the assignment to review the updated influentials list and to return same to Roy Gottesman for use in future mailings to this group.

X. CODE MATTERS

Al Reventas reported that Joe Zicherman had written to him regarding an IAPMO advisory that a product consisting of a solid PVC core and an ABS skin was certified as meeting ASTM 2661 by NSF. It is believed that this is not correct since ASTM 2661 is believed to be solely for ABS pipe.

Al Reventas will check ASTM 2661-90 and advise Roy Gott sman. If it appears that NSF has improperly certified this product believed to be produced by Genova, Roy Gottesman is to contact NSF for clarification.

CTL009771

XI. MEDIUM DENSITY POLYETHYLENE MONITORING

Peter Lloyd reported that use of polyethylene in Europe and the UK has increased significantly with polyethylene marketing plans indicating movement to use in water pipe. Should polyethylene be accepted by municipalities, it could impact on PVC markets.

Peter Lloyd has the continuing assignment to monitor and report on medium density polyethylene usage in pipe.

XII. ASTM ACTIVITIES UPDATE

Peter Lloyd reported that he chairs an ASTM committee that is developing a standard for perforated drainage pipe that uses recycled post-consumer PVC. This is a non-critical, non-pressure application, which could consume all of the rigid PVC post-consumer waste.

Peter Lloyd also reported that as a result of the BFGoodrich rationalization of its North American operations, he is becoming involved in the Canadian Standards Association (CSA) which should provide a useful liaison with ASTM activities. Peter Lloyd reported that AWWA has a ballot going out for voting on C-907, a standard for large diameter (4",6",8") fittings.

XIII. NEW USE AREAS

Brief discussion was held concerning possible new use or marketing areas that PRO should be looking into. Mike Stickel suggested consideration be given to the large diameter (48" to 60") pipe market for storm sewers as this is a potentially large market. Companies currently in this market include Carlon, Scepter and Vasallo. It was agreed that this is a market area that PRO should become more knowledgeable about.

Roy Gottesman will contact Fred Timpe of Carlon to see if Carlon can send a representative to the next PRO meeting.

Mike Stickel will check with Larry Fleming at PWPipe regarding a PW Pipe representative attending the next PRO meeting to provide information on this market.

Roy Gottesman will contact Peter Mayerhofer at EVC in Brussels to learn about large diameter (2 meters) pipe being made in Italy.

XIV. BUDGET

The PRO budget for fiscal year 1991-1992 is as follows:

Publicity	\$ 20,000
Advertising	17,000
Reprints/Fulfillment	7,500
Account Administration/PR Counsel	<u>15,500</u>
Sub-Total -- Communications	60,000
 Uni-Bell Cooperative Program	 <u>50,000</u>
 Total Budget	 \$110,000

As this will be a very tight budget year, strict adherence to these expenditure limits will be required.

XV. NEXT MEETING DATE AND LOCATION

The next PRO meeting will take place on Thursday, August 29 at a Dallas location to be advised.

XVI. ADJOURNMENT

The meeting was adjourned at 5:00 p.m.

Respectfully submitted,

Roy T. Gottesman

cc: All meeting attendees
Dan Stanowick

CTL009773

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

12 Noon	- L U N C H -	
12:30 am	IX. SOLVENT CEMENT ISSUE/SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT	F. Sacks /R. Gottesman
1:00 pm	X. INFLUENTIAL LIST UPDATING	R. Gottesman
1:30 pm	XI. CODE MATTERS	
	A. Codes and Standards Coverage by SPI, Benjamin/Clarke, and IFT/J. Zicherman	R. Gottesman
	B. PVC Inner Core ABS Skin Pipe (Genova) - ASTM D 2661	A. Reventas
2:30 pm	XII. MEDIUM DENSITY POLYETHYLENE MONITORING	P. Lloyd
3:00 pm	- C O F F E B R E A K -	
3:15 pm	XIII. ASTM ACTIVITIES UPDATE	P. Lloyd
3:45 pm	XIV. UPDATED COST/BENEFIT STUDY REVISION OF 4-PAGE SUMMARY	D. Stanowick
4:00 pm	XV. BUDGET REVIEW	R. Gottesman
4:15 pm	XVI. NEW BUSINESS	Group
4:30 pm	XVII. REVIEW OF ASSIGNMENTS	M. Barish
4:45 pm	XVIII. NEXT MEETING DATE/LOCATION	Group
4:50p	XV. ADJOURNMENT	

CTL009775

ELECTRICAL MATERIALS COUNCIL

The Electrical Materials Council has held one meeting and two conference calls since the annual meeting in Dallas.

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

- Work continues with G. Sandino to translate our Ten Point Brochure into Spanish for distribution in Latin and South America. We are also translating the chlorine white paper into Spanish.
- The Electrical Materials Council is conducting presentations at the following trade gatherings:
 1. SBCCI, two hours, four speakers, will tape for future use.
 2. Construction Specification Institute Conference, 1/2 hours, IFT cost study.
- The third Electrical Connection Newsletter is in print and being 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.
- Two new mailing list have been developed:
 1. Key individuals at VI member companies who wish to receive information published by the Electrical Materials Council.
 2. Key individuals at VI member company customers who will be mailed information directly from the Electrical Materials Council.

The first mailing will be the Technical Bulletin, "Fire Properties of Polyvinyl Chloride".

- 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.
- The SPI has advised that Peter Lloyd of BFG has been appointed as the SPI Representative to the National Electric Code Panel 7.

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

CTL009777

Electrical Materials Council

Mission Statement

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.

ELECTRICAL MATERIALS COUNCIL

Four Seasons Resort and Club
4150 North MacArthur Boulevard
Irving, Texas

Thursday
May 30, 1991
1:00 p.m.

Attendees:

Pat Benkner, Vinyl Institute
Fred Clarke, Benjamin/Clarke Associates
Lee Fishbein, Borden Chemicals and Plastics (in part)
Rick Flammer, Vista Chemical Company (in part)
Roy Gottesman, Vinyl Institute (in part)
Bud Hall, Vista Chemical Company
Mary Mahon, Borden Chemicals and Plastics
Dave Meeker, Edward Howard and Company
Rick Smith, Vista Chemical Company
Robert Strength, Product Safety Management (consultant for Vista)
Dan Stanowick, Edward Howard and Company

I. SELF-INTRODUCTIONS

The meeting was convened by Chairman Rick Smith with a round of self-introductions.

II. APPROVAL OF MINUTES

The minutes of the April 23, 1991 Electrical Materials Council meeting were approved on motion by Mary Mahon of Borden Chemicals and Plastics and seconded by Dan Stanowick of Edward Howard and Company.

III. REVIEW OF PAST YEAR PROGRAMS

Rick Smith gave a brief overview of activities sponsored by the Electrical Materials Council over the past year for the benefit of visiting guests at the meeting. He reviewed the EMC mission statement, various publications produced by the Council such as the 10 point brochure, the newsletter, "Electrical Connections", various articles published such as the article in the Fire Journal. Rick reviewed papers and presentations such as at the Wire and Cable Symposium and the upcoming SBCCI Conference and the CSI 36th Annual Conference.

CTL009779

Rick Smith reviewed representations for codes including Fred Clarke and Joe Zicherman who monitor building codes, Peter Lloyd of BFGoodrich who is waiting to be approved for NEC Panel 7, Ron Bishop of Carlon who is on Panel 3, Charles Forsberg of Carlon who is on Panel 8, Bob Strength who is waiting to be approved on NEC Panel 6 and Bill Coaker of BFGoodrich who is waiting to be approved on Panel 16.

Rick then gave a brief description of the fire education program and the 50th Anniversary.

At this point in time, it was brought up that Gonzalo Sandino would like the 10 point brochure translated into Spanish.

Action:

- 1 - Rick Smith is to get the 10 point brochure translated into Spanish.
- 2 - Dan Stanowick is to get a rundown on the costs for printing this brochure.

IV. OPENING REMARKS

A. Meeting Purpose

Rick Smith stated that it was the purpose of this meeting to review where we are at this point in time with regard to specific activities, including a review of code body activities and get an update on the presentations being prepared for SBCCI.

B. April 23rd Action Items

Action steps which were attached to the April 23, 1991 meeting minutes were reviewed.

Dan Stanowick noted that the SBCCI Conference sessions are open to the public.

Rick Smith has sent a letter to Willem Prinselaar requesting that Willem send to him a list of all foreign trade groups associated with electrical materials.

Pat Benkner brought with her the EMC inquiry list from ADH. It was noted that there are over 4,300 names on this list with about 4,100 domestic and 200 international inquiries.

Action:

Pat Benkner is to send to Mary Mahon, Dan Stanowick, Rick Smith a copy of this inquiry list. She is also to call Peter Lloyd, who was absent from this meeting, to see if he wants a list.

Bud Hall stated that BFGoodrich has sent in comments on the UL 1685.

V. VINYL INSTITUTE ACTIVITIESA. Ecobalance

Roy Gottesman gave a review of the ecobalance program given by Ken Stern at the general session of the Annual meeting on May 29, 1991. The Ecobalance Committee will be meeting with Chem Systems again in late June or early July.

Mary Mahon asked Roy Gottesman if there are any other groups who are doing a similar study that would include PVC and Roy stated there were none that he was aware of.

B. Recycling

Roy Gottesman updated the group on a couple of recycling activities. A subcommittee of VIGOR is looking at demonstration projects relating to converting disposables to durables. They have identified 4 possibilities:

- 1 - Bottles to cable TV jackets.
- 2 - Rigid bottles into vinyl siding which would then be donated to housing projects for the disadvantaged.
- 3 - Non-pressure piping (outdoor drainage-perforated pipe) meeting ASTM 2729.
- 4 - Pipe meeting ASTM 3034 standard.

At this point, the member companies involved in this project are BFGoodrich, Georgia Gulf, OxyChem and Borden Chemicals.

VIGOR subgroup 2 is disposables to packaging. In this area the problem lies in the melt filtration of PVC to get out, primarily PET. There are no good rates through screen pack filters - it plugs up.

Roy Gottesman gave a review of the NRT recycling program. He stated that the first machine went to England. The second machine was intended for XL Corporation, but due to problems on permits and issuance, this machine will be placed initially at Steiner Liff in Nashville .

He stated that a contract was in the process of being drawn up. He went over the requirements in this contract which includes visitation rights for VI member companies, that the machine can be removed after 6 months if we desired, and use of the machine if required at another location.

Roy noted that there was a unit installed at Wellman, one going to a recycler in Cleveland and a third purchased by Dupont/Waste Management Plastics Recycling Alliance

C. 1991-1992 Budget

Roy Gottesman confirmed that the \$85,000 Electrical Materials Council budget had been approved by the Executive Board at a meeting the previous day.

VI. ISSUES MANAGEMENT PROGRAM

Dave Meeker gave a brief description of the VI Issues Management Program dealing with environmental issues and concerns that came up which he had talked about at the general session of the Annual Meeting on May 29th.

VII. CODE UPDATE

A. BOCA

Fred Clarke reviewed the items that came up during the BOCA Spring Meeting. He stated that the key development was that they want to bar combustibles from concealed spaces. This has been turned down two times.

B. SBCCI

Fred Clarke stated that the SBCCI has published the new changes which he had briefly looked over and thought that about 15 proposals would be of interest to the vinyl industry.

C. NEC

Fred Clarke updated the Council on the NEC code panels. Their technical report is due out in June.

Action:

Rick Smith stated that once the codes are published for review and comments in June we need to respond, through SPI, on Panel 6 recommendations for review and comments that we should take exception to LS (Limited Smoke) designation.

CTL009782

D. New York City

Fred Clarke stated that New York City is proposing to put smoke toxicity requirements into building codes. He stated that wire and cable are not specifically mentioned yet, but are likely to be.

E. IEC

Bob Strength reviewed the IEC bi-annual meeting held in April in Frankfurt, Germany.

Rick Smith suggested that we approach NFPA through SPI in order to expand the code panels instead of waiting for a vacancy. Bud Hall did not think this was a good idea at this point and after some discussion, the following action item was proposed:

Action:

Bob Strength is to review the membership of the 3 code panels to see what companies are represented on each of them.

VIII. PUBLIC RELATIONS STATUS REPORTA. Merchandising

Dan Stanowick gave an overview of the merchandising program for EMC noting that the 10 point brochure and the information cards has gone out and that promotion of this brochure, at this time, will be through distribution to member companies and by a press release announcing the new brochure.

The next issue of Electrical Connections will be targeted for August with a draft copy ready by the end of July. Once again, Dan has requested anyone to contact him who might have input for this issue.

Rick Smith suggested including an item about the new VI Environmental ResourceCenter (VERCE).

Action:

Dan Stanowick will have a draft copy of Electrical Connections ready by the end of July.

Action:

Rick Smith is to send Dan Stanowick the SPI annual resin figures for 1990.

Dan stated that at the CSI conference scheduled for late June, Joe Zicherman will give a presentation including complete updated figures on the IFT Cost/Benefit Study. He will be using these updated figures with all of our trade media.

Dan Stanowick will be receiving the media registration lists for this conference, so that he can contact participants in advance.

Dan Stanowick has been in contact with the Fire Journal and told them we want to address this issue with a new paper that will be out shortly. This is the paper authored by Dr. Kaplan and Dr. Hinderer on the baboon studies carried out at SWRI.

Dan noted that a number of companies will be working with him to come up with some case histories. He also noted that Len Krauskopf has some additional contacts for him.

B. SBCCI Conference

Dan Stanowick noted that the VI presentation is on the schedule from 2:30 p.m. to 5:00 p.m. on October 30, 1991 in Tampa, Florida. He is in the progress of collecting outlines for the 4 presentations to be held at this conference along with photos and bios of each speaker. At this point in time he has received Peter Lloyd's and Roy Gottesman's presentation.

He suggested that all 4 individuals give him hard copies of their presentations.

Bob Strength asked how the visual aids should be handled. Should there be some overall coordination of each presentation?

Dan Stanowick said that this was not necessary, but Dave Meeker made a suggestion that they should all be slide presentations.

Rick Smith suggested that we should videotape this presentation to use internally and make available for customers to show distributors. Considering this would not be a big outlay of dollars, it was decided to go ahead with the videotaping of the presentation.

Action:

Dan Stanowick is to arrange to have the SBCCI Conference presentation by the Vinyl Institute videotaped.

C. 50th Anniversary

Dan Stanowick sent out last week a revised draft of the 50th Anniversary backgrounder. He feels that there is still a void in that we do not have much information on building wire applications.

Action:

Dan Stanowick is to send Rick Smith a copy of the merchandising program.

Rick Smith suggests taking the press release and sending a copy to the President of Southwire with a cover letter soliciting his help in passing this onto communications people. He stated that the focus panel should also receive a copy.

Action:

Dan Stanowick is to draft a cover letter to the President of Southwire.

D. Collateral Materials

Dan Stanowick stated that his research concluded that the VI member companies needed to do a better job of communicating with their sales and marketing personnel.

A discussion ensued on the appropriate collateral materials needed and the best possible use of these existing materials. After much discussion, it was suggested that Dan Stanowick mail out each piece individually over a period of time and Rick Flammer suggested a cover letter interesting enough that would make the person want to read what we are sending them.

Dan Stanowick suggested that EMC should develop a master mailing list of key customer contacts.

Rick Smith suggested that we need to have two mailing lists. One from VI member companies of who, in their own organization they would like to have receive this material, and one list of the VI member company customers who should receive this material.

Action:

Electrical Materials Council member companies are to send 2 lists to Dan Stanowick. The internal mailing list to include sales and marketing personnel, and the member

company customer list to receive this material which should include purchasing, technical sales and marketing personnel along with senior management.

These two lists should be sent to Dan Stanowick by July 1st.

This program should be merchandised through the newsletter and press releases.

Mary Mahon asked if the papers could be categorized as in toxicity, corrosivity, etc. Also we need to have a list of all available collateral materials.

At this point, Vista and Borden will participate in this direct mail campaign.

It was decided that the technical bulletin, "Fire Properties of Polyvinyl Chloride" will be the first item to be sent out.

Action:

- 1 - Dan Stanowick is to send everyone a list of all Electrical Materials Council collateral materials.
- 2 - Dan Stanowick is to put together a cover letter for the first mailing in this program which will be "Fire Properties of Polyvinyl Chloride" to be sent out to our inquiry fulfillment list.
- 3 - Pat Benkner is to write a cover letter addressed to member company personnel for use in sending the "Fire Properties of Polyvinyl Chloride" technical bulletin.
- 4 - Pat Benkner is to write a letter to the other member companies not represented at this meeting informing them of this direct mail campaign and soliciting their participation in same.

Rick Flammer suggested sending this material to electrical contractors.

Rick Flammer also suggested a paper on the comparison of PVC and polyethylene with the conclusion being drawn that they are equal materials.

Action:

Bud Hall is to talk with Chuck Bush, Chairman of the Technical Committee regarding development of a full

comparison of the 4 major wiring systems on fire modeling (fluoropolymers, PVC, polyolefin, and chloro-sulfonated rubbers) in a way that the average person in the field can read.

Action:

Rick Smith is to send Dan Stanowick a copy of the article he has on fire modeling.

Dan Stanowick reiterated his recommendations as stated in his letter to the Council dated May 23rd, which is to continue with the Electrical Connections newsletter, marketing the 50th Anniversary, to continue ongoing media and publicity efforts and contributing an electrical materials component to an overall issues management video on vinyl.

This video should be made as multi-purpose as possible, but still being effective for use by the Electrical Materials Council.

IX. NEXT MEETING

It was agreed that a conference call will be held on June 27th at 2:00 p.m. eastern standard time.

The next meeting of the Electrical Materials Council will be held on August 13th in Cleveland at 1:00 p.m.

Respectfully submitted,



Pat Benkner

CTL009787

VINYL PACKAGING COUNCIL

The Vinyl Packaging Council has not met since the Annual Meeting. Following is a summary of recent activities.

Outreach Program - Key Retailers

The Council is undertaking a program to visit with key diversified retailers to discuss vinyl's place in the packaging market and recycling. The first visit is planned for September 18 with the senior marketing staff of K-Mart Corporation. The "vinyl team" will be William Carroll of OxyChem, Jim Mullen of American Mirrex, Meredith Scheck of the VI and Pat Gallagher of Edward Howard. In addition to the K-Mart discount department stores, the K-Mart Corporation owns Builders Square, Pay Less Drug Stores, Waldenbooks, The Sports Authority and PACE membership warehouses.

The program will be reviewed following the meeting and a determination will be made regarding additional presentations.

Media Relations and Publicity

As part of the Council's program to educate the vertical trade press about vinyl packaging and its role in the waste stream, a July 16-17 media tour in the Chicago area was held. Participants in the tour were Ron Marston of Georgia Gulf, Pete Gianniny of Klockner-Pentaplast, and Pat Gallagher of Edward Howard. Editors visited included representatives of the following publications: Food Processing, Prepared Foods, Food Business, Diary Foods, Converting, Building Supply Home Centers, Packaging, and Packaging Digest.

Other visits with the vertical trade press are planned for this fiscal year.

Vinyl in Packaging Awards Program

Two of the 1991 VIP Award Winners were included in Packaging Magazine's 1991 Innovator Awards candidates -- the Everready battery film pack and the Eagle One auto care spray bottle.

The VIP Awards Program, run the last two years on a 12-month cycle, has been changed to an 18-month cycle with the intention of the program attracting additional entries. The Council has been offered free booth space at the November 1992 Pack Expo sponsored by the Packaging Machinery Manufacturers Institute. It is planned that the 1992 awards will be presented at an event held in conjunction with this show.

Bottled Water Market Campaign

A VI-staff bylined article "What Water Bottlers Need to Know About Recycling" was prepared and appeared in the August/September 1991 edition of the Bottled Water Report, the magazine of the International Bottled Water Association. A copy of the article follows the report.

The final year of the Council's bottled water market campaign is underway. An advertisement is appearing in each issue of the bi-monthly magazine and direct mail pieces to the magazine's subscription list are being disseminated in the months in which the magazine is not published.

New Chairman

The Council's new chair is Ms. Kim Mathieu-Thomas of Atochem.

What Water Bottlers Need to Know About

RECYCLING

by Dr. Roy Gottesman & Meredith Scheck
The Vinyl Institute



Many old plastic bottles are now being recycled into new bottles. The vinyl containers shown here are made in part from recycled vinyl water bottles.

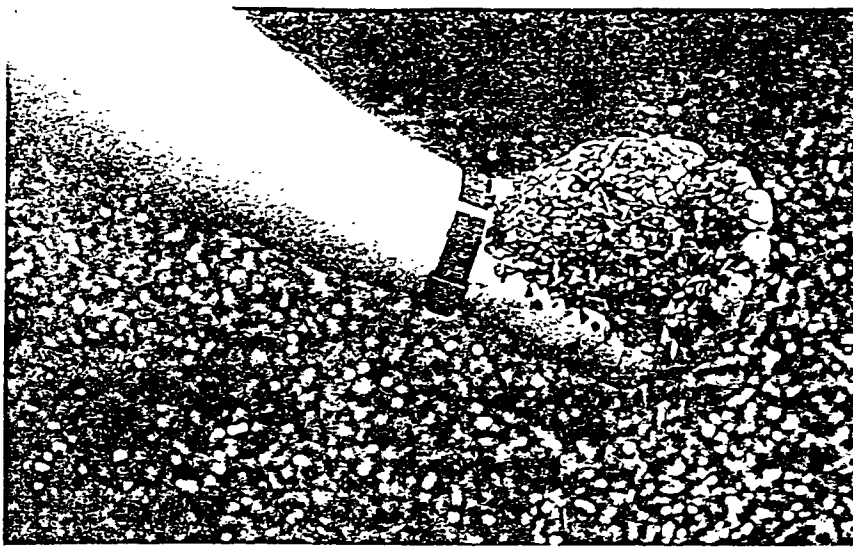
Most industries would be delighted to have an environmental record that is as good as that of the bottled water industry. Nearly half of all bottled water is sold for home and commercial use in three and five-gallon containers which are typically reused many times and often recycled. In some areas, quite a few retail-size water bottles also are recycled. And, of course, there is no product more environmentally benign than water.

But these facts don't mean that water bottlers can ignore the increasing demands for companies to do

more to reduce the volume of solid waste and help the environment.

Why not? There are four good reasons. First, it can be foolish to assume that just because you have a good record, everyone is aware of it and that you won't be criticized. Second, good record or not, the bottled water industry will inevitably feel the impact of legislation and regulations affecting all packaging. Third, being environmentally conscious can often pay dividends in terms of cost savings to you. And

(continued on page 59)



More than 360 million pounds of post-consumer plastic bottles and 1.6 million glass bottles were recycled in the U.S. in 1990.

Old plastic bottles are sorted by resin type then shredded, washed, granulated and made into new bottles and other useful products.



(continued from page 57)

last but not least, it's the right thing to do, from a societal viewpoint.

Source Of The Problem

Every year, Americans generate nearly 180 million tons of garbage, and we're not slowing down. By the end of the decade, the EPA estimates we'll be throwing away 216 million tons a year, which equates to about 4.4 pounds of municipal solid waste a day for every man, woman and child.

About 75 percent of the trash we generate gets buried in landfills. The EPA expects our national recycling rate to increase from 13 percent currently to 24 percent by 1995, but it's a race against space. The number of available landfills is fast being depleted, and landfill "tipping" fees have escalated to more than \$100 per ton of trash in many areas today. Alternative solid-waste management strategies, such as incineration, have been slow in gaining public acceptance.

Numerous studies have affirmed that packaging only accounts for about one-third of America's municipal solid waste. But because it is the most visible component, it takes a lot of heat. Let's not feel too guilty, though. Packaging isn't a waste. It serves a critical purpose. It makes products easy to buy, easy to transport and easy to consume, and it prevents breakage, spoilage and contamination. Modern packaging is an important element in the high standard of

living enjoyed by most people in the developed world.

A Recycling Infrastructure

Recycling isn't a panacea for the solid waste problem, although the idea has caught the imagination of Americans. Landfill avoidance is the ultimate objective, and this can be achieved by source reduction, reuse and incineration, as well as recycling.

Where the infrastructure exists, recycling is working. Public opinion surveys indicate that more than 90 percent of the population would be willing to recycle if a collection infrastructure were available. Almost two-thirds of all aluminum beverage cans and at least one quarter of glass bottles are now being recycled. The recycling rate for used corrugated boxes is about 50 percent.

With plastics, the story is more complicated. Virtually all plastics used in packaging are potentially recyclable, but progress has been hampered by the lack of an infrastructure and relatively low consumer awareness about plastics' recyclability.

Nevertheless, in 1990, more than 360 million pounds of post-consumer plastic bottles were recycled—some nine percent of all plastic bottles sold. Not a big percentage, but a huge increase from a few years earlier.

Blueprint For Plastics

Most observers expect that the plastics recycling

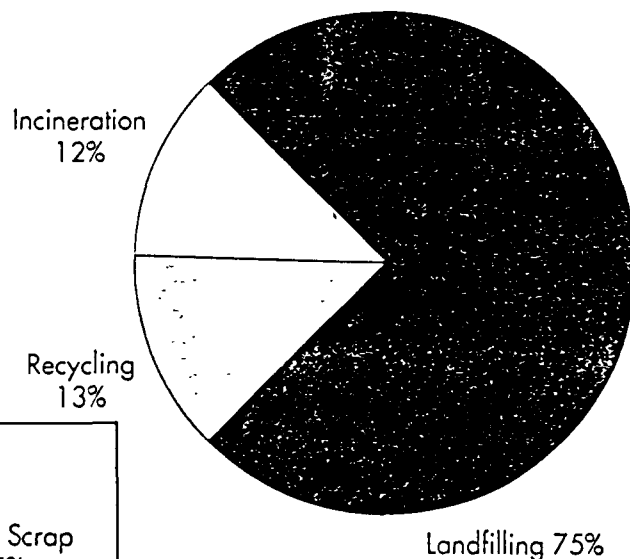
(continued on page 61)

(continued from page 59)

picture will improve dramatically in the next few years. The Council for Solid Waste Solutions, a program of The Society of the Plastics Industry, Inc. (SPI), recently announced a "blueprint for recycling" with the objective of recycling two billion pounds of plastics per year by 1995. That's 25 percent of all plastic bottles and containers, not just soda bottles and milk jugs, but also vinyl water bottles, polystyrene yogurt cups and so on. Achieving this goal will make the rate of plastic bottle recycling as high or higher than current rates for other basic packaging products, except aluminum cans.

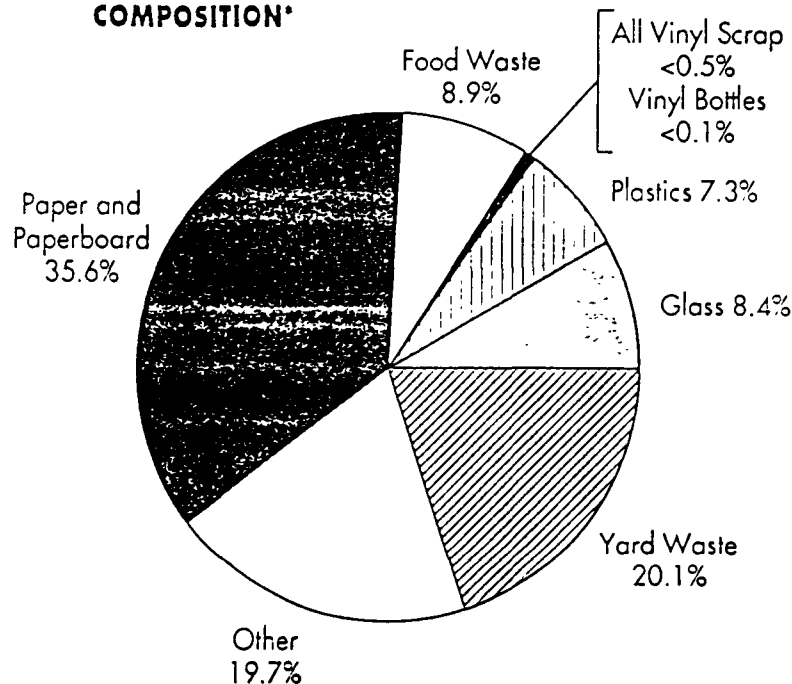
The plastics industry blueprint is good news for the bottled water industry, which sells more than 85 percent of its product in various types of plastic containers. All of these different plastics—PET, polyethylene, vinyl and polycarbonate are recyclable. But

U.S. MUNICIPAL WASTE DISPOSAL METHODS



Source: Franklin Associates, Ltd.

MUNICIPAL WASTE STREAM COMPOSITION*



* Wastes discarded after materials recovery and before energy recovery on the basis of weight, 1986

Sources: Franklin Associates, Ltd., Vinyl Institute

being made. The plastics industry has identified more than 1,500 curb side recycling programs in the U.S. with some 400 collecting plastics. The industry expects to double that number each year through plastics recycling workshops, comprehensive how-to manuals for communities, a model cities program and other activities.

Expanded curb side collection is only part of the plastics recycling solution. The total system also has to include effective sortation, a network of handlers and processors, and profitable uses for the recycled materials. The development of an economical method of sorting the different types of plastic could prove the spur to extensive plastic recycling. A number of systems are being tested, including some that are already in use on a full-scale pilot basis. One prototype now in operation automatically sorts

vinyl, PET and polyethylene packages from a mixed plastic waste stream with 99.7 percent accuracy. Other technologies being tested promise even higher levels of sorting precision.

Ten Steps To Make Recycling A Reality

Compared with some other industries, the bottled water business is not in a difficult spot on environ-

(continued on page 63)

at the post-consumer level, a system of education, waste collection, sortation and reclamation has to be established and encouraged in the communities where your product is consumed for recycling to work.

The challenge to packaging producers and users is to encourage recycling so that restrictive legislation that would limit the freedom to use the best material for a given application is not necessary. Progress is

(continued from page 61)

mental issues or recycling. But the industry cannot wait for problems to arise. Now is the time for individual companies to take the necessary actions to demonstrate their concern for the environment and their commitment to recycling and source reduction. Here are 10 things water bottlers can do to make recycling a reality and help prevent restrictive legislation.

1. **Do an audit of your operations** to identify opportunities for recycling and source reduction. For example, a number of companies have been able to reduce the amount of corrugated packaging materials they use by substituting film wrap.
2. **Talk with your suppliers and customers** to identify recycling opportunities. One water bottler established a program with the local hotels and restaurants it supplied to collect single-serve bottles, which were then recycled into nonfood containers. A bottle manufacturer takes old five-gallon bottles and recycles them into water crates.
3. **Ask your bottle suppliers** to put the correct SPI plastic resin code on the bottom of your containers. This system is now mandated in 27 states.
4. **Look at your bottle caps and labels.** Some materials may be more compatible with your containers than others, from a recycling standpoint.
5. **Avoid making sweeping claims** for your packaging, such as "environmentally friendly." Even the word "recyclable" may be prohibited for plastic bottles in some states.
6. **Encourage your customers to recycle.** Two excellent sources of current information on plastics recycling are the toll-free hot lines sponsored by the Council for Solid Waste Solutions and the Vinyl Institute. The Council's number is: (800) 243-5790. The Vinyl Institute's Vinyl Environmental Resource Center can be reached at: (800) 696-8469.
7. **Work with industry associations** in states where your water is sold to support comprehensive recycling programs. Oppose legislation restricting packaging choices or mandating that all packages achieve a specified recycled content level.
8. **Support the inclusion of all recyclable plastics** in curb side collection programs in your local community.
9. **Establish company policies** to encourage the purchase of recycled-content products. Everything from recycled paper to floor mats made from recycled plastic can be specified today.
10. **Stay well-informed** about environmental issues.

AUGUST/SEPTEMBER 1991

'Identify opportunities for recycling and source reduction.'

Select the package that best meets all of your requirements—cost, safety, marketing and environmental, and be prepared to defend your packaging choices. ●

Dr. Gottesman is executive director and Ms. Scheck, assistant director, of The Vinyl Institute, a national trade association representing the leading U.S. manufacturers of vinyl, vinyl feedstocks and additives and vinyl film and sheet products. The Vinyl Institute is a division of the Society of the Plastics Industry, Inc.

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CTL009795

HEALTH, SAFETY AND ENVIRONMENT COMMITTEE

The committee has not met since the Annual Meeting. The next scheduled meeting of the committee is September 25, 1991, the day preceding the Annual meeting of the Vinyl Chloride Safety Association. The following items summarize activities since the last meeting.

Comments to Louisiana DEQ on Proposed Ambient Air Standard

Comments were filed May 31 with the Louisiana Department of Environmental Quality on the Department's proposed ambient air standard for vinyl chloride of 1.19 ug/m³. These comments, which supplemented comments filed December 31, 1990 by the Vinyl Institute, stated that none of the unit risk factors calculated for inhalation of vinyl chloride are scientifically defensible and urged a postponement of the formal adoption of an ambient air standard. An indepth review of the U.S. Environmental Protection Agency's consideration of the use of unit risk factors and data elements considered in setting suggested levels was incorporated in these comments.

Clement Associates Proposal

The issue of the use of and development of appropriate unit risk factors has surfaced not only in Louisiana (see above), but also in other states such as Delaware, Mississippi, and California. At the last meeting of the committee, a proposal from Clement Associates to develop an appropriate risk number for vinyl chloride was discussed. Clement Associates has been asked to provide the Vinyl Institute a more specific research outline, with an estimate of the time and anticipated costs to complete the research. This proposal is scheduled to be initially reviewed at the September 25 committee meeting.

Waste Minimization/Initiator Containers

A group of member company representatives met July 25 with Plastics Recovery Systems, Inc., a recycler who has expressed interest in a program to recycle initiator containers. Discussions on this meeting will occur at the committee's next meeting.

Vinyl Institute Awards

A revised simplified formula for the calculation of the VI's Environmental Achievement Awards has been proposed and will be considered by the committee at its next meeting.

Proposed Seminar on Spill Containment, Prevention and Reporting

A survey to gauge interest in a seminar on spill containment, prevent and reporting including a review of potential subjects to be covered has been completed. Based on the results of this survey, it was decided not to hold a separate seminar but to hold a roundtable discussion with company-by-company presentations on the topics at the committee's next regularly-scheduled meeting. A format of agreed-to topics has been prepared by Mr. Pearson of PPG Industries.

American Institute of Architects - Draft Document Vinyl Flooring

The committee reviewed a draft document "Vinyl Floor Coverings" (April 29, 1991) being considered by the American Institute of Architects as part of its activities aimed at producing product specific environmental resource guides. These comments, which supplemented an earlier VI letter to the AIA, clarified the implications on the environment of the production of PVC resins and feedstocks.

Transportation Mutual Aid - VC Net

Committee Chairman Frank Borrelli has the assignment of providing liaison with VC Net, which is operated as an independent activity of the Vinyl Chloride Panel of CMA's CHEMSTAR program. Peter de la Cruz of Keller and Heckman serves as special counsel to this group. An update on this activity is separately provided in the Keller and Heckman report under Tab K.

Liaison with CMA

Two members of the committee, Mr. Ledvina of Vista and Mr. Holbrook of BFGoodrich, are serving on committee of the Chemical Manufacturers' Association addressing the implementation of the Clean Air Act and other regulatory initiatives of the Environmental Protection Agency. This liaison will be useful in developing responses to regulatory initiatives and assuring that any vinyl-specific interests are coordinated.

Frank E. Borrelli
August 23, 1991

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CTL009798

Edward Howard &Co.

Public Relations Counsel
Cleveland, Akron and Columbus, Ohio
an affiliate of Hill and Knowlton, Inc.
One Cascade Plaza
Akron, Ohio 44308
216-376-6500 FAX: 216-376-9379

MEMORANDUM

Date: August 13, 1991

To: Roy Gottesman
Bob Burnett
Meredith Scheck

From: Dave Meeker / Nora Jacobs

Subj: Issues Management Program Action Report
July 1991

Copies: VIGOR
Communications Committee
Chairman, Packaging Council
EH&Co. Issues Management Team

This is a report for the month of July, 1991. It includes:

- An Executive Summary
- A report of inquiries to the Vinyl Environment Resource Center (VERCE)
- A report of contacts initiated by VERCE
- A summary and analysis of monthly media coverage on vinyl issues.
- Government Watch -- capsule items on government activity which might have an impact on vinyl.

Following are significant developments during the reporting period:

"On The Firing Line" -- That's the title of the special one-day seminar designed to update employees of the vinyl industry about the critical issues affecting the manufacture, sale and use of vinyl. The 8 a.m. to 5 p.m. seminar is set for Philadelphia on October 3, Houston on October 29 and Cleveland on November 12. Complete details are now being circulated throughout the industry.

CTL009799

New Recyclers Directory Out -- The new edition of the VI Recyclers Directory is just out and already we're getting suggestions and additions for the next one. Demand is high, demonstrating the degree of interest in this hot topic.

Nashville To Begin Vinyl Recycling -- Last month we announced that the Vinyl Institute demonstration project using the NRT Vinyl Separator has been installed at Steiner-Liff in Nashville. Now, a significant new development: the Nashville-Davidson County Metro Government will work with the VI to initiate a pilot project to collect and recycle vinyl through its very successful dropoff recycling program. Vinyl will join PET and HDPE as a recycled plastic. More details soon.

VERCE Activity Growing -- The VERCE Hotline handled 50 calls in July, up from 22 in June. A Rolodex card promoting the hotline has been mailed to several hundred environmental media, recyclers and others. Last month's calls included three from government agencies, one from a major flooring manufacturer, several small manufacturers, a major investment banking firm, and several companies in the building industry. A call from the Akron Beacon Journal resulted in a major interview with Dr. Roy Gottesman on vinyl recycling. Word on VERCE is getting around.

Entrepreneurs Looking at Vinyl Recycling -- VERCE is getting calls from entrepreneurs looking at vinyl recycling as a new business opportunity. Efforts to acquaint small business organizations with vinyl are being discussed.

Newly Released -- New material issued by the Vinyl Institute in the past month includes:

- Environmental Briefs -- The August edition.
- News release announcing the vinyl separator installation at Steiner-Liff in Nashville.
- Fire health effects news release which suggests that toxicologists need to revise the way they measure the health effects of certain combustion by-products. It's based on a paper by Robert K. Hinderer, manager of health and toxicology for BFGoodrich and Harold L. Kaplan, a consultant in toxicology.

Talking to the Trade Media -- Ron Marston of Georgia Gulf, Pete Gianniny of Klockner Pentaplast and Pat Gallagher of Edward Howard & Co. made the rounds of several major trade publications in Chicago late last month to tell the vinyl story. Among those visited were Packaging, Packaging Digest, Prepared Foods, Food Processing/Food Business, Converting, and Building Supply Home Centers.

July News Coverage Analyzed -- News coverage for the July period was 60 percent positive, 20.5 percent negative and 19.5 percent neutral. Coverage was distributed a bit more evenly, with vinyl uses and qualities capturing more than 50 percent of the total coverage.

Help Us Make The Case -- We're looking for outstanding examples of vinyl making important contributions to the environment and models of vinyl recycling. We'd like suggestions you might have for case studies. Call or write.

If you would like additional details regarding anything in this report, please contact us: 1-800-969-VINYL.



CTL009802



CTL009816

LEGISLATIVE UPDATE

This report reviews items in which PVC has been specifically identified, rather than reviewing activities that affect all plastics.

Suffolk County, New York

The Suffolk County legislative was scheduled to hear testimony August 13 and 27 on amendments to the plastics ordinance, Local Law 10-1988. The ordinance prohibits food retailers from using plastic grocery sacks and take-out packaging and utensils made of polystyrene and polyvinyl chloride.

The amendment, proposed by the sponsor of the ordinance (Steve Englebright), would allow an exemption for packaging that is source separated on site and taken directly to a recycling facility. The proposal would also grant authority to the Commissioner of the Department of Health Services to grant a one-year temporary exemption for packaging for which there is no substitute product that can comply with the law that is commercially available to businesses in the county.

The Department of Health Services is now in the process of writing regulations to implement the original ordinance. These regulations will become effective 90 days after promulgation or December 31, 1991, whichever comes first. The intention of the department is to announce hearings on the regulations during August and for the regulations to be finalized by the end of October.

Additional background information is included in the Counsel's report in Tab K under "Florida Legislative Workshops".

The Executive Board, VIGOR and Vinyl Packaging Council were advised in a July 23 memo that a potentially dangerous situation is developing in Florida that could lead to the introduction of an omnibus solid waste bill containing a provision to ban PVC containers.

Senator George Kirkpatrick, the author of the 1988 Florida Solid Waste Management Act, is chairing a series of summer workshops aimed at reviewing the implementation of the law and preparing a "corrections" bill. Steve Alexander, Regional Government Affairs Manager for the Council for Solid Waste Solutions, alerted us to this situation following the July 17 workshop and asked for our assistance in responding to a series of questions that had been specifically posed to the CSWS at the workshop.

CTL009817

In addition to material provided by several VI member companies, the VI provided Steve Alexander with a package of information including responses to the Senator's questions. Based on this information, Steve prepared an August 6 written report to Wayne Voigt, the staff director of the Senate Committee on Natural resources and Conservation.

This report was background for a meeting with Senator Kirkpatrick scheduled by CSWS for August 15. Dr. William Carroll of OxyChem participated in this meeting. Separately, Deborah Neale, Executive Director of State Government Relations for the BFGoodrich Company also met with the Senator. Both report that the Senator is seeking a financial commitment from industry to fund recycling initiatives in the state.

At the Executive Board meeting, an update on the meetings with the Senator and discussions at the August 20th workshop session as well as any appropriate and necessary actions on the part of the Executive Board will be presented.

CTL009818

M

CTL009819



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

MEMBERSHIP APPLICATION

Return To:

The Vinyl Institute
Division of the Society of the Plastics Industry Inc.
155 Route 46 West
Wayne Interchange Plaza II
Wayne, New Jersey 07470

Attention: Roy T. Gottesman, Executive Director

Union Carbide Chemicals and Plastics Company Inc.

(Name of Company)

39 Old Ridgebury Road

(Street Address)

Danbury, CT 06817

USA

(City)

(Country)

Raymond G. Azrak

World Wide Business Manager
SVR, Phenoxy and Phenolics

(Name of Designated Representative)

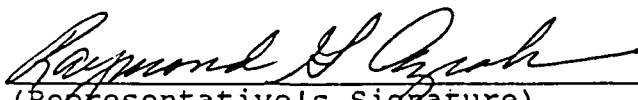
(Title)

(203) 794-2752

7/3/91

(Telephone)

(Date)


(Representative's Signature)

WE HEREWITH APPLY FOR MEMBERSHIP IN THE VINYL INSTITUTE AND AGREE TO PAY OUR PRO-RATA SHARE OF THE ANNUAL BUDGET AND ANY ASSESSMENTS APPROVED BY THE EXECUTIVE BOARD OF THE VINYL INSTITUTE (BASED ON OUR NAME PLATE CAPACITY FOR VCM AND/OR PVC WHICH WE WILL CERTIFY EACH FISCAL YEAR). THE FISCAL YEAR OF THE VINYL INSTITUTE BEGINS ON JUNE 1ST AND ENDS ON MAY 31ST OF THE FOLLOWING YEAR.


(Signature of Senior Officer)

7/3/91

(Date)

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CTL009821

LIAISON WITH CHLOR/ALKALI FEDERATION FORMATION GROUP

The Executive Committee of the Vinyl Institute Executive Board met on May 6 with representatives of the Chlor/Alkali Federation Formation Group. Agreement was reached to continue the high level of cooperation and coordination already underway between the Vinyl Institute (VI) and the Chlorine Institute (CI) on their communications/outreach programs and to explore further cooperation between VI and CI or with the Federation on a number of issues.

This report will serve to up-date the status on these issues:

1. Transportation Issues

At the May 6 meeting, Brad Lienhart of Dow had raised the question as to whether the vinyl chloride specific transportation/mutual aid program might be carried out under the aegis of the CI rather than as a CMA Chemstar program which the VI Executive Board had agreed to at its February 27, 1991 meeting. On June 28, the Executive Director issued a full report to the VI Executive Committee providing complete background on the selection of the Chemstar umbrella for this activity.

The Executive Committee was asked whether they wished to have this re-visited and explore the possibility of having the program carried out under the CI Chlorex program considered. Only one response has been received, from BFGoodrich. In a letter to Bill Patient dated July 23, Donald Murray has recommended "staying on course with V-Net" (the Chemstar program) and we have been advised that this is the Goodrich position.

Unless there is some contrary view, the program is moving forward under CMA.

2. State Legislative and Regulatory Activity

There has been no state or federal legislative activity or regulatory activity specifically impacting the chlorine/vinyl industry during this period but a mechanism is set up within the VI to make CI aware of any restrictive legislation or regulatory action that we learn about.

3. Dioxin Information

The CI has been provided with information on dioxins/furans and incineration that the VI has developed.

4. Communications/Outreach Programs

As agreed upon at the May 6 meeting, the ICI video on "Living with Chlorine" was shown to the Executive Board for review and comments. On June 11, the Executive Director wrote to Dr. Robert Smerko of CI expressing the concerns about linking vinyl plastics with other chlorinated products having either perceived or real environmental problems. A copy of that letter specifically pointing out the comments raised by members of the Executive Board after the ICI video was shown at the May 29 Executive Board meeting is on the following pages.

5. Life Cycle Analysis

A draft report on the Life Cycle Analysis project sponsored by VI and carried out by Chem Systems is under review by the VI Technical Committee and peer reviewers. A copy of the final report will be provided to the Federation when it is issued.

6. Responsible Care/Product Stewardship

CI has the remaining assignment to advise VI what it is doing as a trade association in this area for consideration by VI.

On July 24, The Executive Board was advised of an initiative by Greenpeace, its Great Lakes Project, which involved a press conference in Buffalo the following day and a call for a phase out of chlorine production and compensation to workers and communities affected by the chlorine ban. VI public relations counsel participated in discussion of CI on an appropriate response to the Greenpeace press release and it was agreed that a separate VI statement was not needed.

The Greenpeace report "Chlorine - The Product is the Poison" has been reviewed by the Executive Director and comments provided to CI. In addition this report is undergoing review by members of the VI Technical Committee.

On August 19, the Executive Director attended a meeting in Washington sponsored by the Chlorine Institute relating to the Greenpeace initiative and the forthcoming meeting of the International Joint Commission on the Great Lakes. Further details are contained in the File Memorandum dated August 22 which is included under this Tab.

Roy T. Gottesman

CTL009823



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

Roy T. Gottesman
Executive Director

June 11, 1991

Mr. Robert Smerko
The Chlorine Institute
2001 L Street, N.W.
Washington, D.C. 20036

Dear Bob:

You will recall that at the meeting of the Vinyl Institute Executive Committee and the Chlor/Alkali Federation Formation Group on May 6 in Philadelphia, it was agreed that the ICI video entitled "Living with Chlorine" would be shown to the Vinyl Institute Executive Board at their next meeting for their review and comments. Concern had been expressed about linking vinyl plastics with other chlorinated products which have either perceived or real environmental problems.

The ICI video was shown to the Executive Committee at its meeting on May 29 and the following are the major items in the ICI video that I have been asked to point out to you before you undertake your video production:

1. The footage showing the application of chlorinated pesticides in which the worker is completely unprotected would not be satisfactory for U.S. audiences.
2. We have questions that the references to bleaching of paper in the ICI video would be accurate for the paper industry in this country.
3. We have serious concerns about potential negative fall-out on vinyl plastics should the video include dry-cleaning solvents and chlorinated solvents used as cleaning/degreasing agents as significant chlorine uses.
4. The container shown in the video as a water jug was opaque, whereas vinyl bottles are perfectly clear. We suspect the video shows a high density polyethylene milk jug rather than a vinyl bottle.

CTL009824

5. A brief scene in the video shows a laboratory worker involved in mouth pipetting. Since this is discouraged or prohibited by OSHA for certain applications, it would be best if the video you are going to produce did not show mouth pipetting.

One of our Board members, Bill Patient, commented that the video appeared to be a selling tool for promotion of chlorine by ICI. It is our belief that the video you are going to produce should emphasize those applications where chlorine is uniquely used, i.e. the valuable product could not be produced nor would the application be possible without the use of chlorine.

Please let me know what audience you are trying to reach with this video. To a large degree that will dictate what should or should not be included in the video.

Finally, in the interest of minimizing the shooting of wasted footage and costs, we strongly recommend that a script be developed for the proposed video and circulated for review and comment by interested and affected parties before any video is filmed.

I will be pleased to discuss this with you further at your convenience. Separately, I am arranging to return the ICI video tape that Joe Walker sent to me and thank you for having made it available for our use.

Kindest regards.

Sincerely yours,



RTG/pmb
enclosure

cc: Vinyl Institute Executive Committee
Mr. Brad Lienhart, Dow Chemical Company
Peter L. de la Cruz, Esq., Keller & Heckman

CTL009825



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

Roy T. Gottesman
Executive Director

August 22, 1991

TO: File

RE: Liaison with Chlorine Institute

On August 19, I attended a meeting in Washington sponsored by the Chlorine Institute to discuss the Greenpeace Great Lakes Campaign and other issues. Representatives from the National Agricultural Chemicals Association, American Water Works Association, Georgia Pacific, Halogenated Solvents Industry Alliance, National Electrical Manufacturers Association, American Paper Institute, American Petroleum Institute, Chlorobenzene Producers Association, were present and Brad Lienhart of Dow was also present.

Dr. Bob Smerko, President of the Chlorine Institute, indicated the purpose of the meeting was to assess the need for a coalition regarding the Greenpeace initiatives and the EPA Toxics Reduction program. He indicated that he had two targeted outcomes for the meeting: (1) to assess interest and support for the Chlorine Institute, specifically as it related to the Greenpeace initiative; (2) to determine interest in forming coalitions on select policy matters. He indicated that it was his position that the Chlorine Institute was willing to assume a leadership role on issues relating to chlorine and chlorine chemistry. With regard to anything else, he indicated that the Chlorine Institute did not have the manpower resources to do this and they would have to look for leadership elsewhere.

Dr. Smerko noted the convergence of the events during the period of September 28 - October 2 that led to his convening this group. The end of the Greenpeace Great Lakes tour will take place during this time, the biannual meeting of the International Joint Commission on the Great Lakes involving the U.S. and Canada will convene, and on October 2 a symposium sponsored by EPA and Environment Canada will be held which will showcase the EPA Pollution Prevention Program including "0 discharge".

Discussion focused on the Great Lakes initiative by Greenpeace and these three events.

CTL009826

Grace Weaver of Eastman Kodak, who participated by telephone, indicated that the International Joint Commission meeting will see very serious lobbying by some ten environmental groups including the Sierra Club, the National Wildlife Foundation, Greenpeace and others. She suggested that letters be sent to the International Joint Commission, but most importantly, stressed the importance of having industry people attend the meetings including participation in them.

Dr. Smerko indicated that the Chlorine Institute seeks the following from other organizations:

1. Intelligence
2. Lobbying at various levels
3. Participation in the policy-making process
4. Information to help assess the technical validity of the Greenpeace report.

With regard to the latter, he noted that the Chlorine Institute has engaged a consultant to review the Greenpeace report.

Grace Weaver indicated that on Monday, September 30 the Pollution Prevention Forum, planned by the Council of Great Lakes Industries, will feature presentations by General Motors dealing with the auto industries inputs, IBM on the electronics industry, the Canadian Paper Industry, Dow Sarnia with regard to Chlorine production, and presentations by the utilities and steel-making industries. This forum is meant to be open to the public so that industry has an opportunity to tell the public what it is doing and has been doing to prevent pollution in the Great Lakes.

There was a brief discussion on the current Greenpeace Great Lakes tour and I reported on the press coverage relating to Cleveland and Brad Lienhart reported on coverage in Sarnia, pointing out that, in his view, media coverage is very balanced this time as compared to two - three years ago.

At a meeting on September 3 at the Chlorine Institute, a committee will determine how they should act on the Greenpeace report. Dr. Smerko indicated that this would likely lead to convening a group of academics to serve as a science advisory panel to critique the Greenpeace document.

Matt van Horn of the American Paper Institute indicated that they will have representation at the sessions and will have a policy position with regard to the EPA Pollution Prevention program. He indicated that they will not only have a comprehensive message but a presence at the International Joint Commission meetings articulating the viewpoint that the reduction of discharges just for the sake of reductions makes no sense but reductions should be carried out where there is either logic or good science. He noted that EPA is required by law to propose standards by June of 1991

that established water criteria for the Great Lakes. As EPA already has specific water quality criteria, they question the necessity of citing specific ones for the Great Lakes area.

Doug Bannerman representing the National Electrical Manufacturers Association indicated that he is involved with a CMA group that is pulling together the latest toxicology information on PCBs. This will look into all health effects, including cancer.

With regard to input on the Greenpeace document, the following organizations indicated that they would participate and provide information to the Chlorine Institute: Vinyl Institute (the document has been sent out to our Technical Committee for their review) Halogenated Solvents Industry Association, and National Agricultural Chemicals Association.

Attention next focused on the desirability and/or necessity of forming coalitions on select policy matters. The following were discussed:

1. Clean Water Act reauthorization. Jack Sullivan of the American Water Works Association indicated that there are several groups in Washington working on the Clean Water Act. Their primary focus is the reauthorization of the Clean Water Act and the 20th anniversary of that act in October, 1992. In addition, a group involving the National Association of Manufacturers, CMA, Edison Electric and the American Paper Institute, among others, are looking at effluent guidelines and what industry would like to see in the new legislation.

There are at least three organizations in Washington involved with Clean Water Act related issues, several scientific workshops are planned and, according to Jack Sullivan, chlorine is just a small part of it. A technical group at AWWA is also looking at byproducts from chlorine as well as ozone and chlorine dioxide disinfection of water. It is recognized if environmentalists can have a success with regard to chlorine in the bleaching of paper, this would be the first in a series of attacks coming down the pike. It was also agreed because there are so many actors already involved in the Clean Water Act, there is no need for an additional coalition.

2. EPA Pollution Prevention Act.

It was noted that a lot of companies have already signed on for the EPA 33-50 Pollution Reduction program. It was agreed however that a coalition with regard to the Pollution Prevention Act would be desirable, coalescing around the Traverse City, Michigan event culminating with