# VINYL INSTITUTE EXECUTIVE BOARD

Four Seasons Resort and Club
4150 North MacArthur Blvd.
Irving, Texas 75038

Wednesday
May 29, 1991
7:30 a.m.

Attendees:

J. Alan Bailey, OxyChem
Pat Benkner, Vinyl Institute
Robert Burnett, Vinyl Institute
Bruce Duerringer, Kaneka Texas Corp.
Peter de la Cruz, Keller & Heckman
Rick Flammer, Vista Chemical
Roy Gottesman, Vinyl Institute
Bob Kelly, CertainTeed Corp.
Jerry Koral, Atochem, N.A.
Robert Luss, OxyChem
Donna Magill, PPG Industries, Inc.
Bob Margevich, Akzo Chemicals Inc.
Woody Miller, GE Specialty Chemicals
Robert Noble, Exxon Chemical Canada
William Patient, BF Goodrich
Willem Prinselaar, EVC
Jim Rash, PW Resin
John Russ, Borden Chemicals
Gonzalo Sandino, Petroquimica Colombiana
Meredith Scheck, Vinyl Institute
Edwin Schiffer, Georgia Gulf
Ervin Schroeder, ShinTech Inc.
Nelson Stefany, Rohm and Haas Co.
Victor Struber, Witco Corp.
Bill Shoun, Dow Chemical Co.
Larry Thomas, SPI

## I. OPENING OF MEETING AND SELF INTRODUCTIONS

Mr. Flammer convened the meeting at 7:30 a.m. and asked for a round of self introductions.

## II. APPROVAL OF MINUTES OF FEBRUARY 27, 1991 EXECUTIVE BOARD MEETING

Mr. Shoun moved that the minutes of the Executive Board meeting of Febrary 27, 1991 as included under Tab A of the 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.

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

Meredith N. Scheck

A

# VINYL INSTITUTE EXECUTIVE BOARD

The Rittenhouse Hotel
210 West Rittenhouse Square
Philadelphia, Pennsylvania

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

Attendees

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

## I. OPENING OF MEETING AND SELF INTRODUCTIONS

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

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

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

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

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

## IV. FINANCIAL REPORT

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

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

### B. Status of Current Expenditures

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

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

## V. SOLID WASTE MANAGEMENT

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

Mr. Fred Krause, Committee Chairman of VIGOR, reviewed the Committee's objectives in four areas (collection, sortation/separation, reclamation, and materials markets/product uses) and expanded on the material included under Tab D. He summarized for the Board the current status of activity and summarized the work that still needs to be done to achieve the objectives. Mr. Krause noted that his presentation contained two specific proposals:

1. <u>"Third Bale Proposal"</u>

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

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

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

   Mr. Schiffer, noting that the Board had previously discussed the concept at its February 27, 1991 meeting, stated that from his perspective the Board should reconfirm its prior agreement that (a) the vinyl industry believes that programs aimed at the recycling of vinyl packaging are important ones to the industry not only because of the impact on packaging, but also because of their relationship to other vinyl end markets; (b) action in this area is more effective as a group than as individual companies. Mr. Schiffer noted that if the Board reaffirmed its prior position, then the decision was limited to reaching agreement on the most appropriate action to take to implement this goal. Dr. Gottesman commented that VIGOR is seeking Board approval to move forward in its discussions with other elements of the plastic recycling facility to handle the "third bale".

Motion:

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

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

2. Proposal to Site an Automated Sortation Unit

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

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

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

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

Motion:

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

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

B. **Issues Management Activities**

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

1. VERCE

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

2. Industry Outreach

   The "On the Firing Line" seminars have been scheduled for three locations between October 3 and November 12. Mr. Burnett reviewed current registration numbers and asked Board members to encourage participation. He stated that current plans were for the third seminar to be videotaped which might be appropriate for internal use. He also commented that each of the seminars would have a recycler as luncheon speaker.

3. Recycler's Directory

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

4. Speakers' Bureau

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

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

5. Other

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

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

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

VII. **EUROPEAN UPDATE**

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

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

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

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

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

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

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

Mr. Russ noted that at this time it was appropriate for Board members to ask for additional information or for discussion on items covered by reports of the following committees/areas: Technical, Health, Safety & Environment, General Counsel's Report, and Legislative Update.

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

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

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

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

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

XI. **NEW BUSINESS**

A. **International PVC Symposium**

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

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

B. **Partnership for Plastics Progress**

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

XII. **ORGANIZATIONAL ISSUES**

A. **Membership of Union Carbide**

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

XIII. **FUTURE EXECUTIVE BOARD MEETING DATES**

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

XIV. **ADJOURNMENT**

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

Respectfully submitted,

Meredith N Scheck

Meredith N. Scheck
Assistant Director
MNS/bg

## WEST EUROPEAN OVERVIEW

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

## PRINCIPAL PROBLEM

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

J. York
Sept. 12, 1991

SPI-10565