

MINUTES of the one hundred fiftieth meeting of the Directors of the Manufacturing Chemists' Association, Inc., held at the Union Club, New York City, on Tuesday, September 14, 1965, at 11:00 a. m. (EDT).

There were present:

E. B. Brooks	Charles S. Munson
Herschel H. Cudd	Donald D. Pascal
David H. Dawson	Joseph E. Rich
George H. Decker	W. T. D. Ross
Harold W. Fisher	Kenneth Rush
J. Robert Fisher	Robert B. Semple
Carl A. Gerstacker	Joseph R. Stevens
John L. Gillis	Robert C. Swain
T. G. Hughes	Henry A. Thouron
Thomas C. Jones	O. V. Tracy
Alexander Lewis, Jr.	Harry B. Warner
W. P. Marsh, Jr.	Jesse Werner
A. R. Marusi	M. F. Crass, Jr.
M. A. Minnig	

Alternates:

David L. Eynon, Jr. (for F. L. Byrom)
 Harry S. Ferguson (for Chester M. Brown)
 Thomas S. Nichols (for John O. Logan)
 William Wishnick (for M. A. Minnig)

General Counsel:

Lloyd Symington

Present by Invitation:

A. L. Cobb - Eastman Kodak Company
 Ralph K. Gottshall - Atlas Chemical Industries, Inc.
 W. K. Menke - United States Steel Corporation
 J. W. Tomecko - Canadian Industries Limited
 W. N. Williams - FMC Corporation

Chairman Semple called the meeting to order at 11 a. m. In his opening remarks he welcomed the new Directors and guests who were present. Each person then rose and gave his name and company affiliation.

I. MINUTES OF JUNE 2 AND JUNE 3, 1965, MEETINGS.

The Minutes of these meetings were duly approved as submitted to the members.

II. REPORT OF THE SECRETARY-TREASURER.

(a) Financial Report -- June 1 - August 31, 1965. The financial report for the three months ending August 31, 1965, was summarized by the Secretary-Treasurer.

ON MOTION duly made and seconded, it was

VOTED: That the report be accepted and placed on file.

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(b) Status of Membership Fee Collections. Mr. Crass reported that all members but two had paid their dues and recommended that an additional grace period of thirty days be granted. The recommendation was approved by those present.

(c) Resignations and Consolidations. The resignation of Abbott Laboratories was reported. Three recent consolidations have removed the following firms from the membership roster: Cary Chemicals Inc., Heyden Newport Chemical Corporation, and Shawinigan Resins Corporation.

Although the foregoing actions resulted in a net loss of income approximating \$4,500, this amount has been virtually recovered through voluntary upward fee adjustments on the part of three members.

(d) Financial Report -- 93d Annual Meeting. The Secretary-Treasurer reported Annual Meeting income of \$37,120. Expenses totalled \$14,043, leaving a net balance of \$23,077 which has been transferred to the operating account in accordance with financing arrangements previously approved by the Board.

III. BOARD OF DIRECTORS.

(a) Appointment of Alternates. The Chairman advised that the following Board members had requested the appointment of alternates:

<u>Board Member</u>	<u>Alternate and Company</u>
Edwin B. Brooks	C. O. Davidson, Columbian Carbon Company
Chester M. Brown	Harry S. Ferguson, Allied Chemical Corporation
F. L. Byrom	David L. Eynon, Jr., Koppers Company, Inc.
David H. Dawson	C. B. McCoy, E. I. du Pont de Nemours & Co.
Harold W. Fisher	C. C. Garvin, Jr., Enjay Chemical Company
Carl A. Gerstacker	Leland I. Doan, The Dow Chemical Company
John L. Gillis	Charles H. Sommer, Monsanto Company
T. G. Hughes	J. W. Kent or T. M. Welton, Chevron Chemical Company
Thomas C. Jones	D. G. Braithwaite, Nalco Chemical Company
Alexander Lewis, Jr.	W. C. King, Gulf Oil Corporation
John O. Logan	Thomas S. Nichols, Olin Mathieson Chemical Corp.
W. P. Marsh, Jr.	Robert H. Cornwell, U. S. Industrial Chemicals Co.
A. R. Marusi	Eugene J. Sullivan, The Borden Chemical Company
Max A. Minnig	William Wishnick, Witco Chemical Company, Inc.
Hugo Riemer	C. L. Randolph, United States Borax & Chemical Corp.
W. T. D. Ross	Leonard Hynes, Canadian Industries Limited
Kenneth Rush	Kenneth H. Hannan, Union Carbide Corporation
Robert B. Semple	Bert Cremers, Wyandotte Chemicals Corporation
Hans Stauffer	A. E. Albright, Stauffer Chemical Company
Robert C. Swain	A. B. Clow, American Cyanamid Company
Harold E. Thayer	Stanley H. Anonsen, Mallinckrodt Chemical Works
Henry A. Thouron	Paul Mayfield, Hercules Powder Company, Inc.
O. V. Tracy	Felix E. Larkin, W. R. Grace & Co.
G. L. Weissenburger	Denton A. Shriver, Vanadium Corporation of America
Jesse Werner	C. C. Schulze, General Aniline & Film Corporation
Joseph R. Stevens	A. L. Baldock, J. T. Baker Chemical Company

ON MOTION duly made and seconded, it was

VOTED: That all appointments be approved.

Mr. Semple stated that if additional Directors desired to designate alternates they should submit nominations to the Secretary-Treasurer for appointment at the October 13 meeting.

(b) Appointment of Pension Committee. The Chairman stated that the Association's Pension Trust Agreement, as amended, provided for the appointment of a Pension Committee which shall have control of the administration of the Plan. The following personnel were appointed to the Committee and approved by those present:

Harold E. Thayer, Chairman
Harold W. Fisher
Max A. Minnig

(c) Rules of Organization and Procedure. Sent to Directors in advance of the meeting were revised Rules of Organization and Procedure for the following committees:

Chemical Packaging Committee
Transportation Equipment Committee

Following discussion,

ON MOTION duly made and seconded, it was

VOTED: That the revised Rules be approved.

(d) October 12-13, 1965, Regional Meeting in Montreal. In letters dated August 24, Directors were advised by the Secretary-Treasurer that the October 1965 Regional Meeting of the Board would be held in Montreal on Tuesday and Wednesday, the 12th and 13th. The meeting and supplemental events are being co-sponsored by the Directors of the Canadian Chemical Producers' Association. The Executive Contacts of member firms with headquarters in Canada have been invited to the meeting. All events, excepting luncheon on the 13th, will take place at the downtown Holiday Inn, located at 420 Sherbrooke Street West.

At the request of the Chairman, Mr. Ross discussed the meeting and the program. On Tuesday evening, MCA representatives will be the guests of CCPA for cocktails and dinner. Executive Committee and Board meetings will be held the next morning and, at approximately 11:30 a.m., buses will transport registrants to Isle Sainte Helene, site of the 1967 World's Fair, which will be held in conjunction with the 100th Anniversary of the founding of the Canadian Federation. Luncheon will be served at the Fair Grounds and buses will be available to return registrants to the hotel or to the airport.

(e) Program Committee -- Nov. 23, 1965, Semi-Annual Meeting. Mr. Fisher reported that the Program Committee had completed its arrangements and program for the 15th Semi-Annual Meeting and Midyear Conference of the Association to be held at The New York Hilton on November 23. Panel sessions, which will convene at 10 a.m. and run throughout the day, will include the following topics: Relationship of Research and Market Development to the Successful Introduction of New Products; Chemical Advertising; Outlook for Chemicals by the Investment Community; Water and the Chemical Industry; and East-West Trade.

The luncheon session will be addressed by The Hon. William C. Foster, Director, United States Arms Control and Disarmament Agency, and former MCA President. Guest speaker at the evening banquet will be The Hon. John T. Connor, Secretary of Commerce, and former Chairman of the MCA Board of Directors. Printed programs and reservation forms will be distributed to the membership within the next two weeks.

(f) Tax Policy Committee -- Reimbursement of Moving Expenses. Sent to members of the Board of Directors on August 30 was a Tax Policy Committee proposal that the Board support the introduction of legislation in the Congress which would exempt from income tax reimbursements for certain moving expenses incurred by transferred employees -- i. e., moving expenses similar to those which would be reimbursed to government employees under a proposed Civil Service bill. If approved by the Board, the necessary draft legislation would be offered for introduction during the next session of Congress. Favorable consideration of the matter was recommended by the Executive Committee.

ON MOTION duly made and seconded, it was

VOTED: That the recommendations of the Tax Policy Committee be approved.

At its meeting held earlier during the day, the Executive Committee considered a second proposal of the Tax Policy Committee recommending the filing of an amicus curiae brief with the Supreme Court in support of a taxpayer's petition for certiorari on a case involving moving expenses which, if favorably considered by the Court, might obviate the need for corrective legislation. Over-all cost to the Association in preparing and filing the brief would approximate \$1,500. The Executive Committee recommended that the Board favorably consider the filing of such brief, with a proviso that similar action on the part of such organizations as the Chamber of Commerce of the United States and the National Association of Manufacturers be encouraged.

ON MOTION duly made and seconded, it was

VOTED: That the recommendation be approved.

IV. COMMITTEE APPOINTMENTS.

The following committee appointments were approved:

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- (a) Ammonium Nitrate Technical Committee.
A. F. Brooks, The Consolidated Mining and Smelting Company of Canada Limited, replacing R. L. Sather.
- (b) Chemical Industry Council Advisory Committee.
D. R. Telesca, W. R. Grace & Co., replacing Carlton E. Smith,
E. I. du Pont de Nemours & Co.
- (c) Chemical Packaging Committee.
G. T. Stewart, The Dow Chemical Company, as Vice Chairman.
- (d) Education Activities Committee.
Michael A. d'Amelio, Olin Mathieson Chemical Corporation,
replacing C. M. Forbes.
Thornley B. Wood, Allied Chemical Corporation, replacing
Frank L. Linton.
- (e) Environmental Health Advisory Committee.
J. H. Sterner, Eastman Kodak Company, as Vice Chairman.
Edward J. Bock, Monsanto Company, replacing John O. Logan,
Olin Mathieson Chemical Corporation, as a Member-at-Large.
- (f) Food, Drug, and Cosmetic Chemicals Committee.
David A. Seligman, Hoffmann-La Roche Inc., replacing
Maurice W. Levy.
- (g) Government Liaison Technical Committee.
W. P. Brobeck, Vitro Chemical Company, replacing E. G. Littel.
- (h) Insurance Committee.
J. R. Hopper, Du Pont of Canada Limited, replacing K. M. Place.
- (i) Medical Advisory Committee.
Gordon Stopps, M.D., E. I. du Pont de Nemours & Co., replacing
A. J. Fleming, M.D.
- (j) Patent Committee.
E. G. Peterson, Hercules Powder Company, Inc., as Chairman.
R. L. Heindel, The Dow Chemical Company, as Vice Chairman.
- (k) Plastics Committee.
Glenn Pitzer, Union Carbide Corporation, as Vice Chairman.
- (l) Reactive Metals Advisory Committee.
E. R. Rowley, National Lead Company, as Chairman.
R. L. Cunningham, Ohio Ferro-Alloys Corporation, as Vice Chairman.

For the information of Directors:

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- (m) Task Group of Chemical Packaging Committee. This group has been
appointed to participate in the evaluation of a test shipping program

of a proposed tight head 55 gallon metal drum, constructed of 20 gauge sidewalls and 22 gauge heads. Members of the Task Group are:

F. J. Tominac, Pittsburgh Plate Glass Company,
as Chairman
M. M. Anderson, Union Carbide Corporation
R. H. Long, Harshaw Chemical Company
C. E. Pruett, E. I. du Pont de Nemours & Co.
R. F. Uncles, American Cyanamid Company

V. STAFF REPORT.

Included with the agenda material was a detailed report of developments in the Association's program of projects and activities since the June 2, 1965, Directors' meeting; this was summarized by General Decker. A copy of the full report is appended to these Minutes as Exhibit A.

VI. COMMITTEE REPORTS.

(a) Education Activities Committee. J. W. Tomecko, Chairman, reported on projects and activities of this Committee. Copy of this report is appended to these Minutes as Exhibit B.

(b) Safety and Fire Protection Committee. A. L. Cobb, Chairman, reported on projects and activities of this Committee. Copy of this report is appended to these Minutes as Exhibit C.

There being no further business to come before the meeting, it was unanimously resolved to adjourn.

M. F. Crass, Jr.
Secretary-Treasurer

APPROVED: Robert B. Semple
Chairman

Attachments

MCA STAFF REPORT

September 14, 1965

Legislative Matters

Matters pertaining to environmental health have continued to dominate the legislative activity of MCA since the previous Board meeting.

Although conferees on S. 4, Senator Muskie's water pollution control bill, have met, a compromise of the Senate-House difference concerning Federal versus state water quality standards has not been reached. A resolution of the differences is expected, however, as soon as the press of other legislation permits further meetings of the conferees.

On June 24 and July 30, Mr. A. J. vonFrank, Chairman of the MCA Water Resources Committee, appeared before Senator Muskie's Special Air and Water Pollution Subcommittee to present statements regarding the technological aspects of the chemical industry approach to solution of its water pollution problems.

Upon recommendation of the Air Quality Committee, MCA submitted a letter to the House Interstate and Foreign Commerce Committee pointing out objections to an amendment of the Clean Air Act, proposed by the Department of Health, Education, and Welfare, as part of S. 306 -- a bill which is concerned primarily with motor vehicle exhaust and solid waste disposal. The amendment authorizes the Secretary of HEW to call conferences on potential air pollution in a way that might complicate the programming and erection of new industrial facilities. In its report on S. 306 the Committee recommended enactment of the amendment to which MCA objected. If adopted by the House, this amendment will be the subject of any Senate-House Conference to be held since the Senate specifically rejected the amendment when it passed S. 306.

On August 30, Senator Ribicoff introduced S. 2470, an Administration proposal similar to the Senator's bill of the last Congress to provide for registration, factory inspection, and quality control -- including waste disposal practices -- of pesticide plants. Hearings on the bill are not expected to be held during the current Session.

Right to Work Legislation -- Pursuant to discussions at the June Board meeting, MCA submitted a letter on June 21 to Senator McNamara, Chairman of the Senate Labor and Welfare Subcommittee on Labor, opposing repeal of the "right to work" provisions of the Taft-Hartley Act. Although the legislation was reported favorably by the Subcommittee and the full Labor and Public

Welfare Committee, it is expected to be the subject of bitter Senate debate and possibly a filibuster by its opponents. Accordingly, there is still time and need for those who oppose this legislation to inform their Senators of their views.

Patent Developments -- Following up on the Association's testimony on Uniform Government Patent Policy Legislation before Senator McClellan's Subcommittee in June, by letter to the Senator on July 28 MCA suggested two amendments to his bill, S. 1809. One of these would spell out in greater detail the circumstances under which the Government could grant to research contractors rights greater than a nonexclusive license in fields such as public health, welfare or safety. Pursuant to Senator McClellan's request, made at The Greenbrier, the MCA Executive Contacts were requested by letter of June 16 to supply examples of inventions developed as a result of Government-sponsored research requiring the independent expenditure of considerable sums to bring them to commercial utilization. Several useable examples received from our member companies were submitted to Senator McClellan on August 27.

Presidential Commission on Patent System -- On July 23 President Johnson appointed a Commission to study the Patent System and charged it with determining how well the system currently serves our national needs and international goals; with devising possible improvements; and with recommending any legislation required to strengthen the System. There are four Government and nine public members of the Commission, including Mr. Howard Nason, President of Monsanto Research Corporation.

Tax Developments -- On June 10 MCA filed with the Internal Revenue Service a statement on a proposed income tax regulation, "Allocation of Income and Deductions Among Taxpayers," questioning the legal authority for portions thereof and citing the need for clarification.

On June 17, by letter to Treasury Secretary Fowler, MCA stated objections to the definition of "permanent establishment" in the proposed Philippine tax convention, which definition is broader than that in previous treaties. The same definition appears in the Thailand tax convention, on which a Senate Foreign Relations Subcommittee hearing was held on August 25, where MCA Tax Counsel Raphael Sherfy testified regarding the Association's objections.

On June 30, MCA addressed a letter to Chairman Wilbur Mills of the House Ways and Means Committee regarding H. R. 5196, a bill to remove tax barriers to foreign investment in the U. S. MCA objected to provisions which would change the existing estate tax situs rules so as to make debt obligations of U. S. corporations owned by alien non-residents subject to U. S. estate taxes.

State Legislative Activity -- Wisconsin Senate Bill 560, introduced to regulate persistent pesticides, would also authorize the State Board of Health

to issue cease and desist orders for any industrial waste. At a hearing by the Wisconsin Senate's Government and Veteran Affairs Committee on July 20, Mr. Harold L. Jacobs, accompanied by Mr. William J. Conner, testified for MCA opposing this extreme legislation. Messrs. Jacobs and Conner are members of the MCA Water Resources Committee. NACA as well as other trade associations also opposed the bill.

International Trade

A survey on world trade in inorganic chemicals has now been completed. In response to questionnaires submitted to 121 member companies, 16 companies furnished some information. A summarization of available material has been supplied the Technical Specialists working with Governor Herter's office in preparing for the forthcoming Kennedy Round Trade Negotiations.

The survey of taxes and tariffs on chemicals in world trade being conducted by Horace J. De Podwin Associates does not seem to be as productive as hoped. To date there have been but few responses to questionnaires submitted to member companies, primarily because of the lack of detailed information on non-tariff barriers in various countries affecting U. S. export trade and similar lack of information on non-tariff barriers, taxes, etc., on chemical imports.

Environmental Health

The investigation of feasibility and scope of an environmental health information program for MCA, contracted to Booz, Allen & Hamilton early in the summer, is proceeding in good order. A series of executive interviews with a cross section of member companies has proven very helpful in pointing up preferred emphases and limitations in initial range of informational activity. This feasibility and scope study is scheduled for completion in mid-fall.

A pamphlet entitled, "Atmospheric Emissions from Sulfuric Acid Manufacturing Processes," was published in mid-summer. An initial printing of 2,000 copies was exhausted almost immediately. A technical summary paper was given on this study at the Annual Meeting of the Air Pollution Control Association in June. The second study, concerning nitric acid, has been completed and the report is in preparation.

The first of a projected series of five-day short courses in wastes treatment techniques applicable to chemical industry wastes is to be held at the University of Texas during the week of September 13. This seminar program was developed cooperatively by the Water Resources Committee and Professor W. Wesley Eckenfelder, Jr., of Manhattan College, who will head the instructing staff. The seminar was fully subscribed by the end of July, and several companies have already indicated interest in sending representatives to the one next in prospect, at a midwestern university, later in the fall. Two others are tentatively planned, in the southeast early in 1966, and in the northeast next spring.

CMA 068441

MCA's 16th Water Pollution Workshop will be held in Denver, Colorado, on October 28. Called the Intermountain Workshop, it is designed for the eight-state area of Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming. Co-sponsors include the Chemical Industry Council of Denver, Denver Chamber of Commerce, Colorado Petroleum Council, and the American Society of Sugar Beet Technologists. Control officials from Colorado, Idaho, Montana, and Wyoming are taking direct part in the program, and the luncheon address will be delivered by Mr. Felix S. Sparks, Director, Colorado Water Conservation Board. Three West Coast Workshops are scheduled later this year: Los Angeles on December 6, San Francisco on December 8, and Portland, Oregon, on December 10.

Dr. Howard C. Spencer of Dow Chemical has been nominated to serve again as industry advisor on food additives for the United States Delegation at the third meeting of the Codex Alimentarius Commission in Rome, October 18-19, 1965. The acting head of the Delegation at last year's meeting has expressed high praise for the service rendered by Dr. Spencer in this capacity in 1964.

Transportation

A summary of final arguments for the ICC Hearing Examiner was filed September 7 on the lawfulness of the level, structure, and manner of paying mileage allowances for privately owned tank cars. The Examiner's Report and Recommended Order should be issued within six months; but the strong opposing positions taken by several parties will probably result in an Appeal to the full Commission and subsequently to the Supreme Court on the basis of the Commission's final decision.

An ICC Examiner's Report and Order recommending annual registration of private carriers transporting dangerous articles and filing of certain annual reports was strongly opposed by the Association on August 23. MCA's position is that the proposed rules would do nothing to aid in regulations education and enforcement; would add additional paper work burden without justification in the interest of safety; and would be a step toward economic regulation of private carriers.

Chem-Card Program

Copies of 85 new chem-cards and the new Chem-Card Manual were made available on September 7.

Chemical Industry Councils

All four Water Pollution Workshops scheduled this year are being sponsored by CIC groups. This seems to demonstrate the value of having organizations such as the CIC groups "in being" in the areas of the country which are of vital interest to the industry.

The Staff recently developed a CIC information kit devoted principally to the subject of water resources. Two items from that kit, a small booklet and a model speech, were of such interest that I have mailed copies to all Executive Contacts. You may already have seen them. All of these materials are a significant aid not only to CICs, but also to all levels of management.

In New York, industry people are making progress in their efforts to extend CIC to a statewide proposition. The target of the CIC leaders in New York is to be organized statewide in time to hold a program for the State Legislature early next year.

Media Relations

Our man in New York has been giving particular attention and aid to the development of a major story about the industry by the Saturday Evening Post, and I understand that some of you from member companies have given interviews to the Post writer doing the story. It is tentatively scheduled for publication this fall.

Staff aid has been given during the summer to a Fortune writer developing a major treatment on the subject of air pollution, also scheduled for publication in late fall. It is understood that Fortune editors are thinking of a major story on the plastics industry in the not too distant future.

During the summer at least four major publications featured pieces in which our Staff efforts played a large part, including coverage of the subject of industrial gases, ammonia, adhesives, and cyrogenics.

Public Symposium on Scientific Aspects of Pest Control

In January I reported the National Academy of Sciences-National Research Council opinion that the flying pesticide symposium, financed largely with MCA funds, was considered highly successful. The effort was acclaimed as a major step in promoting a better understanding of this complex subject among groups of divergent points of view. Many of the participants expressed hope that some means be found for taking further advantage of the momentum created by the symposium. Developments during the summer have culminated in a program which will do just this. The Academy will sponsor a major four-day symposium in Washington, January 31 through February 3, 1966, on the subject, "Scientific Aspects of Pest Control." Heading the Academy Steering Committee for the project is Dr. Charles Palm of Cornell. Dr. Boyd Shaffer, new chairman of our LAPI Committee and a participant in the flying symposium, is the industry member of the Steering Committee. Financing is being provided by the U. S. Department of Agriculture, and cooperating are the Departments of Health, Education, and Welfare; Interior; and Defense. MCA and National Agricultural Chemicals Association public relations personnel are to serve on subcommittees

dealing with information and exhibits. It is anticipated that the program will provide the "ultimate" in science and technology on this subject, and attendance is expected to be between 800 and 1,000.

Education Activities

Twenty thousand copies of the 1965-66 edition of MCA's Film Guide on Chemicals, Chemistry and the Chemical Industry have recently been printed. The Guide describes more than 300 motion pictures prepared for schools, colleges, civic groups and other audiences by the Association's Member Companies and allied organizations.

Now on the press is the 1966 edition of Educational Publications Available from the Chemical Industry -- a booklet which complements the Film Guide. This will be followed by an up-dated version of An Industry Helps Our Schools, a folder summarizing MCA's total aid-to-education program.

In early October all three publications, along with a request form, will be sent to secondary school science directors in the 25 states leading in chemical production. Interested MCA personnel will receive advance copies.

EDUCATION ACTIVITIES COMMITTEE
Report of J. W. Tomecko, Chairman
To the Board of Directors
September 14, 1965

I appreciate the opportunity of reporting before the Board on the activities of the Educational Activities Committee.

I wish personally, and on behalf of E.A.C., to thank the Board for having made it possible to have had Robinson Ord sit in on our committee deliberations and we look forward to our association with Mr. Byrom.

This committee was organized with a number of objectives which I think can be summarized into two:

1. Do things that can inspire students to become scientists in the fields of industry, education and government.
2. Provide encouragement and materials to aid teachers to not only inspire students to become scientists but also to develop them into competent scientists.

In both cases we work mainly through teachers. First at the elementary and secondary level and later at the university level. We work through teachers because without dedicated and proficient teachers progress is difficult.

These facts were appreciated early in E.A.C. activities and now after a ten-year period this committee enjoys a national reputation for assisting teachers and students and for arousing interest in careers in chemistry and chemical engineering.

President Sommer in receiving the Kirkpatrick Award for Monsanto last year, said in speaking about informing the public:

"When we have demonstrated, initiated and communicated adequate proof that we deserve the public's confidence, we may face a refreshingly new problem: a public impatient for our contributions ..."

I think it is fair to say that MCA through the past work of E.A.C. enjoys the confidence of educators, but there is so much that we can do that we are inclined to be impatient with our own progress.

Without going into detail on the entire programme, I would like to highlight some current important activities:

1. The College Chemistry Teachers Awards programme is being continued for the tenth year and, so far, 48 outstanding professors have been honoured.
2. Sponsoring high-school chemistry teacher awards programmes, to be conducted by at least eleven Chemical Industry Councils following two suc-

cessful pilot trials last year. The unique criterion is selection of recipients on the basis of their activity in relating school learning to industry application in local areas.

3. Promoting publication of the "Chemistry in Action Series" of paperback books on major aspects of industry activity in the chemical field. Several of the volumes designed for student and lay consumption are nearing completion. A problem now being encountered is that a number of authors, while authorities in their fields, are not qualified as popular science writers. The committee, therefore, may "have" to appeal to the Board at a later date for additional funds, possibly up to \$10,000 in 1965-66. This money would be used to pay persons skilled in "translating" the manuscripts into appealing presentations.

Some of the titles are:

Chemistry of Nitric Acid - MSS about complete;
Chemistry of the Soil - Expect to be done this year;
Detergents - MSS now in the hands of publishers;
Industrial Wastes - and
A total of 20 numbers being worked on -- 37 titles altogether.

4. Issuing a series of Industrial Resource Publications, primarily for the use of high-school and undergraduate teachers, on current developments in the chemical industry. These will deal primarily with new products and new processes, amplifying the theoretical chemistry taught in the classroom and laboratory.

5. Preparing one or more talks on the chemical marketing careers for use of industry representatives before such groups as ACS Affiliate Chapters. We had budgeted money for the purpose of symposiums - this is regarded as a better approach at less cost.

6. Making available new editions of most of MCA's numerous established aid-to-education publications which continue in heavy demand. The 1965-66 editions of "Careers Ahead in the Chemical Industry" and of the Film Guide are now ready for distribution. I should like to cite the tremendous response that we have had in Canada to the MCA films which we have been showing since 1959:

<u>1959-1965</u>	<u>Screenings</u>	<u>Attendance</u>
Chlorine	1,566	53,879
Combustion	1,554	61,587
Chemistry of Water	1,214	44,004
Oxidation-Reduction	849	29,145
Nitric Acid	282	9,850
Catalysis	<u>1,035</u>	<u>32,568</u>
	6,500	231,033

No. of Prints now in Circulation

Chlorine	11
Combustion	10
Chemistry of Water	8
Oxidation-Reduction	9
Nitric Acid	6
Catalysis	7

A new item "Education Publications Available from the Chemical Industry" soon will follow. It is likely also that we will have to reprint the Chemical Laboratory Safety Posters. The first printing of 5,000 sets may be exhausted by the end of the calendar year.

7. Show copies of Safety Posters. Most of the 5,000 sets are now in the schools and a second lot will likely be needed this year. This is essentially a self-liquidating undertaking.

8. As E.A.C. has developed, it has increasingly promoted cooperative working relationships with professional organizations such as the American Chemical Society, the Advisory Council on College Chemistry and the National Science Teachers Association. We believe this enhances the stature of our group and the opportunity for constructive contributions to education.

Our budget is approximately \$31,000 for projects with some additional \$21,000 being added for overhead operational costs.

We have been most fortunate in the men whom the member companies have selected for this important work and may I say a special thank you to the Association for this. I personally have enjoyed working with Dr. Chace and may say our director does his work with care and dispatch.

Thank you for inviting me to speak before you.

CMA 068447

SAFETY AND FIRE PROTECTION COMMITTEE
Report of A. L. Cobb, Chairman
To the MCA Board of Directors
September 14, 1965

1. Chem-Cards

Probably the most important undertaking and certainly the most controversial was the Chem-Card Program. The actual work was carried out by a task force under the chairmanship of Boyd Schafer of the LAPI Committee.

It is however a project recommended by this committee and in which we participated actively.

One gratifying result of this program has been its endorsement by both fire and police authorities, with a recommendation that a copy of the Chem-Card book be carried on every piece of fire apparatus and on every police car in the country.

2. Placarding

Representatives of the Safety Committee have met with a task force on tank truck placarding and have developed some recommendations which were offered to the Interstate Commerce Commission.

However, the project was overshadowed by the sudden interest of the Department of Defense in this matter -- which culminated in two two-day meetings of the Armed Service Explosive Safety Board. We were represented on the second of these meetings. Representatives of the fire and police services were present and were very vigorous in their support of a placarding proposal based on the NFPA numerical system (704M).

We were successful in getting the ASESF to make a recommendation essentially along the lines of the proposals made by the placarding task force. ICC now plans to come out with "notices" describing the proposed systems.

3. Explosion Hazards Training

We conducted a two-week school, in conjunction with the US Bureau of Mines at Pittsburgh, on fire and explosion hazards with special emphasis on detonation hazards.

This course was at a high technical level and was well received. We will have a similar course in December of this year. It will be a one-week course. These courses have been made necessary because of an increase in the number of chemical plant incidents which involve the possibility of detonations.

4. Safety Workshops

We have held a safety workshop in Newark, New Jersey, and have scheduled one in Boston on September 23. These workshops have proven to be an interesting

and, we believe, worthwhile feature of our program. In addition to stimulating the interest of local chemical industry people, the Safety Committee staff has been able to learn much from these sessions.

5. Visual Aids

Work is underway on a series of slide talks on various aspects of chemical plant safety; as for example, a talk on "Entry of Confined Spaces" and on "Lock Out Procedures."

6. Data Sheets

The data sheet on ethyl ether has been revised and a new data sheet on 1, 1, 1 trichloroethane has been prepared.

7. Laboratory Safety

Work is underway on a revision of the manual "Guide for Safety in the Chemical Laboratory."

8. Case Histories.

We will publish a new volume of case histories of chemical industry accidents. These case histories are virtually invaluable in the improvement of chemical industry safety. We are very grateful to these companies that have voluntarily supplied us with case histories and urge all to participate in this program. To a very large extent, progress in safety is being made through the use of actual experience. We are not exactly proud of our case histories, but we do recognize the tremendous importance of learning through past mistakes.