

PLAINTIFF'S EXHIBIT

API-126

MEDICAL ADVISORY COMMITTEE MEETINGS
AND MINUTES THEREFROM 1948 - 1951

SC-API-1908

For Information Only - Not For Publication

AMERICAN PETROLEUM INSTITUTE
MEDICAL ADVISORY COMMITTEE

FOURTEENTH MEETING

Minutes of Meeting
November 3, 1951
The Conrad Hilton
Chicago, Illinois

MEMBERS PRESENT OR REPRESENTED

B. B. Reeve - Chairman
E. K. Linder - Vice Chairman
Marshall Clinton - Secretary

W. O. Armstrong	T. M. Frank
V. C. Baird	T. J. Kelly
(Rep. by Vincent T. Forner)	James W. Long
F. F. Boys	E. P. Luongo
J. Wm. Crookshank	M. N. Newquist
L. E. Curtis	James W. Osborn
Kieffer Davis	John C. Ruddock
Robert E. Eckardt	George M. Saunders
D. M. English	Leo J. Wade
Kenneth R. Fourcher	E. Richmond Ware

ASSOCIATES PRESENT

L. C. Beard, Jr.	R. M. Landon
R. D. Bent	K. G. Mackenzie
J. S. Boylan	R. C. Mithoff
R. C. Cole	C. A. Neilson
T. E. Devilliers	F. J. Sanders
Allan E. Dooley	R. M. Shepardson
L. M. Henderson	F. M. Watkins
H. D. Wilde	

GUESTS

Clyde M. Berry	- Esso Standard Oil Co.
R. C. Carrell	- Lago Oil & Transport Co.
Philip Drinker	- Harvard University
W. N. Fenney	- The Texas Co.
N. V. Hendricks	- Standard Oil Development Co.
A. W. Horton	- University of Cincinnati
Robert A. Kehoe	- University of Cincinnati
John J. Phair	- University of Cincinnati
B. N. Shoemaker	- Standard Oil Co. (Indiana)
Robert E. Stewart	- American Petroleum Institute
D. V. Stroop	- American Petroleum Institute

Total in Attendance - 48

MEMBERS ABSENT

Theodore E. Allen
C. H. Hine
Warren F. Kahle

W. R. Lewis
Robert Bell Lynn
Clark R. Miller

R. C. Page

ASSOCIATES ABSENT

E. W. Adams
W. R. Argyle
C. L. Brown
C. R. Brown
L. O. Crockett
J. B. DeLaune
R. S. Driver

R. W. Faulk
Nelson J. Gothard
James E. Hill
E. W. Isom
D. W. Jarmer
C. R. McKay
W. H. Price

R. B. Roaper

.....

I

INTRODUCTION OF MEMBERS AND GUESTS

The chairman welcomed and introduced members and guests who had not attended previous meetings of the committee.

II

MINUTES OF THIRTEENTH MEETING

ACTION The committee voted to approve the minutes of the Thirteenth Meeting as circularized.

III

REPORT OF SUBCOMMITTEE ON ATMOSPHERIC POLLUTANTS - DR. E. P. LUONGO, CHAIRMAN

Doctor Luongo reported that his subcommittee had deferred consideration of its assignment because of a suggestion made by W. L. Stewart, Jr., API Vice President for Refining, that the Institute should appoint a national committee to find answers to all petroleum air-pollution problems. In the understanding that the General Committee, Division of Refining, planned to discuss Mr. Stewart's proposal on November 6, the only action taken by the Subcommittee on Atmospheric Pollutants was to record, for transmittal to the General Committee, Division of Refining, a consensus that the extent of health hazards which might result from petroleum pollutants in the atmosphere is indeterminate from data now available.

ACTION The report was accepted and amended to provide that the Medical Advisory Committee tenders its services to the General Committee, Division of Refining, in any possible manner upon request.

Note by secretary:

By request, three votes are recorded against acceptance of the report on the basis that it failed to take cognizance of the charge given by the Medical Advisory Committee at its Thirteenth Meeting.

Appended is a copy of Doctor Reeve's letter to W. L. Stewart, Jr., under date of November 5, 1951.

IV

STATEMENT OF COMMITTEE OBJECTIVES, FUNCTIONS AND PROCEDURES

As a newly-appointed member of the Medical Advisory Committee Doctor Kenneth R. Fourcher expressed his need for a statement outlining the committee's objectives, functions and procedures.

ACTION

The committee requested that D. V. Stroop, with the advice and counsel of past chairmen, prepare the desired statement and circularize copies to all members well in advance of the Fifteenth Meeting.

V

REPORT OF SUBCOMMITTEE ON CARCINOGENICITY - DR. M. N. NEWQUIST, CHAIRMAN

On behalf of the subcommittee, Doctor Newquist submitted eleven recommendations for adoption as follows:

1. That the progress report from Kettering Laboratory, dated September 25, 1951, be received and filed.
2. That a Research Project Advisory Committee be appointed by the chairman of the subcommittee to counsel, to review the various phases of the research work, and to obtain all samples to be tested.
3. That no new samples be incorporated into the program except:
 - a. One sample of coal tar;
 - b. One sample of vacuum distillate, 6500-8000°F, from each of the following pipe line samples of crude oil: California, Mid-Continent, Gulf Coastal, Middle East; and
 - c. Such samples as are required to explore further analytical techniques after the anomalies on the present samples are resolved.
4. That the subject of co-carcinogens be clarified insofar as is feasible.

5. That synthesis of any carcinogens and solvents which may be required be made by arrangements with API Project 42.
6. That a limited number of animal tests of high-potency oils be made by stopping the application of the oils when papillomas first appear on each mouse.
7. That it be ascertained whether or not groups of twenty mice are statistically adequate for biological testing in this project.
8. That potency figures be expressed separately for papillomas and malignancies.
9. That detailed data sheets on all completed experiments be included as a part of all progress reports from Kettering Laboratory.
10. That the interim report, dated September 25, 1951, be not transmitted to the Institute of Petroleum, London, until after collaboration of the Research Project Advisory Committee with Doctor Kehoe, in order to allow for inclusion in the text more recent findings and conclusions in connection with current studies.
11. That the epidemiological survey work be continued on its present basis for the time being.

ACTION

Following an extended and detailed discussion of the report, the committee voted to amend the report by striking out recommendations numbered 3 to 10 inclusive, to accept the amended report, and to direct the Research Project Advisory Committee to meet with project directors within 30 days to work out the 1952-53 program.

VI

REPORT OF SUBCOMMITTEE ON FIRST AID - DR. T. M. FRANK, CHAIRMAN

Doctor Frank reported that the subcommittee had reviewed the first edition of the API First-Aid and Safety-Training Guide and had noted several suggestions for improvement and correction for inclusion if, as, and when the second edition is printed.

Particular attention was given to the methods of artificial respiration illustrated and described in the guide and to the subcommittee's recommendations of April 1951 for the distribution of artificial respiration illustrations published in the Ivy report. The subcommittee voted to rescind its previous action and to recommend no change in the artificial respiration section of the guide at this time.

Each member of the Medical Advisory Committee is requested to make a critical review of the first-aid guide and to transmit his

criticisms and suggested changes to the subcommittee chairman, with carbon copy to D. V. Stroop.

ACTION The report was adopted by the Medical Advisory Committee.

VII

REPORT OF SUBCOMMITTEE ON TOXICOLOGICAL REVIEWS - DR. MARSHALL CLINTON, CHRMN

Doctor Clinton referred to action taken at the Thirteenth Meeting when the subcommittee was authorized to formulate plans for five-year periodic revision of each toxicological review. He reported results of his work on this matter by introducing Professor Drinker, who stated the impracticability of estimating the cost of revising the reviews. It was his proposal that a fund of \$6,000 should be established as a maximum amount which could be expended during the first year in which the revisions are to be made, but that charges against the fund should be restricted to actual cost plus 20 per cent for overhead as required by Harvard University.

ACTION The committee recommended the acceptance of Professor Drinker's proposal with the understanding that, prior to revision, each toxicological review would be studied to ascertain the need for and desirability of revision.

VIII

REPORT OF CONSULTANT - PROFESSOR PHILIP DRINKER

The committee received an informative and timely report on several subjects of interest.

IX

REPORT OF SUBCOMMITTEE ON FLUORIDES - DR. GEORGE M. SAUNDERS, CHAIRMAN

Doctor Saunders read the minutes of the subcommittee meeting held November 2, 1951, as follows:

"The chairman read a summary of an extensive report distributed to members earlier. Reference was made to E. J. Largent's letter of October 9, 1951, requesting comments on attached manuscript of a proposed paper which will be circulated to subcommittee members for their comments.

"Doctor Kehoe told the subcommittee that the work now permits setting limits defining safe concentrations for long-time exposure. He said the number of contributors remains the same; the budget of the order of \$20,000/year; and that interest and practical importance of this work is expected to increase. A meeting of sponsor representatives is planned for about the first of the year, and those concerned will be advised relative to the date.

"A motion was passed to continue participation in the fluoride work at Kettering for another year, in the amount of \$2,500."

ACTION The Medical Advisory Committee adopted the subcommittee recommendation for the contribution of \$2,500 to the University of Cincinnati as the oil industry share of expense for work during the year ending June 30, 1953.

X

REPORT OF SUBCOMMITTEE ON ECONOMIC POISONS - DR. T. J. KELLY, CHAIRMAN

Doctor Kelly said there had been no need to hold a meeting, but he recommended the reappointment of the subcommittee for 1952.

ACTION The committee accepted the chairman's recommendation.

XI

REPORT OF SUBCOMMITTEE ON CUTTING FLUIDS DR. F. F. BOYS, CHAIRMAN

Doctor Boys stated he had no report to make but requested that the subcommittee be continued in 1952.

ACTION The committee agreed to continue the subcommittee.

XII

REPORT OF SUBCOMMITTEE ON EYE HAZARDS - DR. KIEFFER DAVIS, CHAIRMAN

Doctor Davis reported an apparent lack of necessity for activity by the subcommittee during 1951, but recommended the continuation of the subcommittee on a status quo basis, to be reactivated if and when the need arises.

ACTION The committee accepted the report.

XIII

REPORT OF SUBCOMMITTEE ON MEDICAL POLICIES & PRACTICES - DR. L. E. CURTIS, CHAIRMAN

Doctor Curtis stated the subcommittee had considered a proposal for a questionnaire survey of members to determine what each company is doing in the field of industrial medicine, but that no action had been taken.

ACTION The progress report was accepted.

XIV

REPORT OF SUBCOMMITTEE ON PHYSIOLOGY OF THE SKIN - DR. ROBERT E. ECKARDT, CHRMN

On behalf of the subcommittee, Doctor Eckardt reported two recommendations for adoption and submittal to the Safety Committee of the Board, as follows:

1. That \$2,500 of Medical Research Funds now on deposit should be contributed to the University of Cincinnati for the support of Kettering Laboratory's research on basic physiology of human skin for the six-month period ending June 30, 1952.
2. That \$5,000 should be included in the 1952-53 budget for the continued support of this project for the year ending June 30, 1953.

ACTION The committee voted to adopt and to submit both recommendations to the Safety Committee of the Board.

XV

AROMATIC HYDROCARBONS

The committee reviewed this subject as outlined in Doctor Eckardt's letter of August 10, 1951 (which was circularized to members and associates on August 23) and other communications from members and associates.

ACTION Without objection, the chairman ruled that the subject should be tabled for further consideration at the next meeting.

XVI

NEW BUSINESS

(No item of new business was presented.)

XVII

TIME AND PLACE OF FIFTEENTH MEETING

ACTION The committee voted unanimously to hold its Fifteenth Meeting in Cincinnati, Ohio, on Friday and Saturday, April 18 and 19, 1952.

XVIII

CONCLUSION OF GENERAL SESSION

Upon the completion of general business, the general session was concluded with a brief recess preceding the holding of an executive session.

.....

EXECUTIVE SESSION

BUDGETS FOR 1951-1952 AND 1952-1953

The committee reviewed the status of the Medical Research Fund, the present and proposed obligations for expenditures, and the preliminary staff estimate on amount to be solicited in 1952, as follows:

Balance on deposit at API (10-1-51)	\$ 83,431.84
Prospective expenditures prior to June 30, 1952:	
1. Carcinogenicity	\$ 31,692.42
2. Retainer for Professor Drinker	2,500.00
3. Physiology of the Skin	<u>2,500.00</u>
	36,692.42
Apparent balance June 30, 1952	<u>46,739.42</u>
Proposed solicitation of contributions 1952	<u>100,000.00</u>
Total available for fiscal year 1952-1953	146,739.42

Estimated maximum budget for 1952-1953:

1. Carcinogenicity	\$ 100,000.00
2. Fluorides	2,500.00
3. Physiology of the Skin	5,000.00
4. Retainer for Professor Drinker	2,500.00
5. Toxicological Reviews	<u>6,000.00</u>
	<u>116,000.00</u>

Apparent balance June 30, 1953 \$ 30,739.42

ACTION

The committee voted to recommend the estimated maximum budget and the proposed solicitation of \$100,000 in special contributions from interested oil companies for the support of the projects for the year ending June 30, 1953.

* * * * *

IN APPRECIATION

In appreciation for his conscientious and efficient service as chairman during 1951, the committee tendered a vote of thanks to Doctor B. B. Reeve.

* * * * *

The Fourteenth Meeting was adjourned.

Approved:

B. B. Reeve, M.D.
Chairman

Marshall Clinton, M.D.
Secretary

12-4-51

COPY

COPY

November 5, 1951

Mr. W. L. Stewart, Jr.
Chairman, General Committee
Division of Refining
American Petroleum Institute
50 West 50th Street
New York 20, New York

Dear Sir:

Being informed of your suggestion for the formation of an Institute committee to study air-pollution problems, I believe you may be interested in reviewing briefly the extent to which these problems have been considered by the Institute's Medical Advisory Committee.

Several years ago, soon after the Donora incident, the Medical Advisory Committee discussed possible toxicities of petroleum industry pollutants in atmosphere and concluded that the potential problems of the industry in atmospheric pollution might develop in the field of public nuisance rather than in the field of public health; therefore, the committee dropped the subject from its agenda except to establish contact with the work of the Committee on Disposal of Refinery Wastes through the agency of a member who served on both committees.

In April 1951 the Medical Advisory Committee voted to appoint a Subcommittee on Atmospheric Pollutants to study ways and means of gathering information on the physiological effects of atmospheric pollutants and to report its recommendations to the next meeting.

When informed of your suggestion for the formation of an Institute committee to study air-pollution problems the subcommittee deferred action on its assignment and simply reported as a matter of record that the extent of health hazards which might result from petroleum industry pollutants in the atmosphere is indeterminate from data now available.

The Medical Advisory Committee tenders its services to the General Committee, Division of Refining, on medical phases of any problems arising in the work of the division.

Very truly yours,

/s/ B. B. Reeve M.D.
Chairman, API Medical Advisory Committee

AMERICAN PETROLEUM INSTITUTE

30 WEST 50TH STREET

NEW YORK 20, N. Y.

**DEPARTMENT OF TECHNICAL SERVICES
DAVID V. STROOP, DIRECTOR**

October 16, 1951

Subject: Revised Schedule of Meetings

**To Members and Associates
Medical Advisory Committee and its Subcommittees**

Gentlemen:

By request we have revised the schedule of meetings to be held in the Stevens Hotel, Chicago, as follows:

Friday Morning - November 2, 1951

- 9:30 - 10:30 - Room 12 (Fourth Floor) - Subcommittee on First Aid.
Chairman: Dr. T. M. Frank
- 10:30 - 11:00 - Room 12 (Fourth Floor) - Subcommittee on Medical Policies and Practices.
Chairman: Dr. L. E. Curtis
- 11:00 - 12:00 - Room 12 (Fourth Floor) - Subcommittee on Atmospheric Pollutants.
Chairman: Dr. E. P. Luongo

Friday Afternoon - November 2, 1951

- 2:00 - 5:00 - North Assembly Room (Third Floor) - Subcommittee on Carcinogenicity.
Chairman: Dr. M. N. Newquist
- 5:00 - 6:00 - North Assembly Room (Third Floor) - Subcommittee on Fluorides.
Chairman: Dr. Geo. M. Saunders

(NOTE: The meeting of the Subcommittee on Fluorides will be convened immediately following adjournment of the meeting of the Subcommittee on Carcinogenicity, regardless of the hour.)

Saturday Morning - November 3, 1951

- 9:30 - 12:30 - North Assembly Room (Third Floor) - Medical Advisory Committee.
Chairman: Dr. B. B. Reeve

AGENDA

1. Introduction of New Members, Associates and Guests.
2. Approval of Minutes of Thirteenth Meeting.

3. Report, Subcommittee on Carcinogenicity - Dr. M. N. Newquist, Chairman.
4. Report, Subcommittee on First Aid - Dr. T. M. Frank, Chairman.
5. Report, Subcommittee on Toxicological Reviews - Dr. Marshall Clinton, Chairman.
6. Report of Consultant - Professor Philip Drinker.
7. Report, Subcommittee on Fluorides - Dr. Geo. M. Saunders, Chairman.
8. Report, Subcommittee on Economic Poisons - Dr. T. J. Kelly, Chairman.
9. Report, Subcommittee on Cutting Fluids - Dr. F. F. Boys, Chairman.
10. Report, Subcommittee on Eye Hazards - Dr. Kieffer Davis, Chairman.
11. Report, Subcommittee on Medical Policies and Practices - Dr. L. E. Curtis, Chairman.
12. Report, Subcommittee on Atmospheric Pollutants - Dr. E. P. Luongo, Chairman.
13. Report, Subcommittee on Physiology of the Skin - Dr. Robert E. Eckardt, Chairman.
14. Aromatic Hydrocarbons (See Dr. Robert E. Eckardt's letter of August 10, 1951).
15. New Business.
16. Time and Place of Fifteenth Meeting.
17. Adjournment.

.....

EXECUTIVE SESSION

To consider:

1. 1952 Budgets.
2. 1952 Committee Organization.

.....

Very truly yours,

W. Stroof

DVS:c

mc: Messrs. E. O. Mattocks
Lacey Walker
F. G. Wilson

For Information Only - Not For Publication

AMERICAN PETROLEUM INSTITUTE
MEDICAL ADVISORY COMMITTEE

THIRTEENTH MEETING

Minutes of Meeting
April 21, 1951
Haddon Hall
Atlantic City, N. J.

MEMBERS PRESENT

B. B. Reeve - Chairman
E. K. Linder - Vice Chairman
Marshall Clinton - Secretary

W. O. Armstrong	Kieffer Davis	W. R. Levis
V. C. Baird	Robert E. Eckardt	James W. Long
F. F. Boys	Kenneth R. Fourcher	E. P. Luongo
J. W. Crookshank	T. M. Frank	M. N. Newquist
L. E. Curtis	A. E. Hoag	Leo J. Wade
	T. J. Kelly	

ASSOCIATES PRESENT OR REPRESENTED

E. W. Adams	L. M. Henderson
L. C. Beard, Jr.	R. M. Landon
J. S. Boylan	K. G. Mackenzie
C. L. Brown	(Rep. by H. R. Warrick)
R. C. Cole	C. A. Neilson
Allan E. Dooley	F. J. Sanders
R. W. Faulk	(Rep. by H. P. Lankelma)
Nelson J. Gothard	R. M. Shepardson

GUESTS

John M. Daly	- Esso Standard Oil Co.
Philip Drinker	- Harvard University
J. W. Hammond	- Humble Oil and Refining Co.
A. W. Horton	- University of Cincinnati
Robert A. Kehoe	- University of Cincinnati
E. O. Mattocks	- American Petroleum Institute
Geo. M. Saunders	- Socony-Vacuum Oil Co., Inc.
William E. Smith	- New York University
D. V. Stroop	- American Petroleum Institute

Total in Attendance - 42

MEMBERS ABSENT

T. E. Allen	Robert Bell Lynn	R. C. Page
D. M. English	Clark R. Miller	E. Richmond Ware

ASSOCIATES ABSENT

W. R. Argyle
R. D. Bent
C. R. Brown
L. O. Crockett
J. B. DeLaune

T. E. DeVilliers
R. S. Driver
James E. Hill
E. W. Isom
D. W. Larmer
C. R. McKay

R. C. Mithoff
W. H. Price
R. B. Roaper
F. M. Watkins
H. D. Wilde

I

INTRODUCTION OF MEMBERS AND GUESTS

The chairman welcomed and introduced members and guests who had not attended previous meetings of the committee.

II

DECEASED MEMBER

The chairman reported the death of Doctor Charles A. Swan on April 4, 1951.

ACTION The committee adopted:

Resolution in Memoriam

Charles A. Swan

The Medical Advisory Committee of the American Petroleum Institute records with deep regret the untimely and tragic death of its member, Doctor Charles A. Swan, as result of an automobile accident near Bradenton, Florida, April 4, 1951.

His assistance and cooperation in the work and meetings will be sorely missed by his associates who wish to express their sense of loss and to extend their feeling of sympathy to Doctor Swan's family and to The Standard Oil Company (Ohio).

III

MINUTES OF TWELFTH MEETING

ACTION The committee voted to approve the minutes of the twelfth meeting as circularized with corrected pages 1, 2 and 9.

IV

REPORT OF SUBCOMMITTEE ON CARCINOGENICITY -
DR. M. N. NEWQUIST, CHAIRMAN

On behalf of the subcommittee, Dr. Newquist reported four recommendations for adoption as follows:

1. That the progress report from Kettering Laboratory dated April 12, 1951 should be received and filed.
2. That a copy of the progress report should be sent to Colonel S. J. M. Auld as a personal and confidential communication from the chairman of the Subcommittee on Carcinogenicity, pursuant to the plan adopted at the April 2, 1949 meeting of the committee.
3. That the Memorandum on Measures for the Control of the Hazard Associated with Carcinogenic Materials and Products in the Petroleum Industry from Robert A. Kehoe, under date of April 12, 1951, should be received and filed.
4. That the chairman of the Medical Advisory Committee and the Chairman of the Subcommittee on Carcinogenicity, with Doctor Kehoe and selected members of his staff, should be requested to present the problem of carcinogenicity to the General Committee, Division of Refining, American Petroleum Institute, as soon as practicable.

ACTION

The subcommittee's report was adopted.

Notes:

1. Copies of April 12 progress report were circularized to members and associates prior to meeting; therefore, copies are not attached to these minutes. Members and associates may obtain additional copies on request to D. V. Stroop.
2. Copies of Doctor Kehoe's memorandum were supplied to those present at the Atlantic City meeting. (Copy of memorandum is attached as Appendix A.) Extra copies may be obtained on request.
3. Copies of the report and the memorandum will be sent to members of the Safety Committee of the Board of Directors and the General Committee, Division of Refining.

V

REPORT OF SUBCOMMITTEE ON FIRST AID - DR. T. M. FRANK, CHAIRMAN

On behalf of the subcommittee, Doctor Frank submitted two recommendations as follows:

1. That the Institute should obtain permission from the American Medical Association and should make available for use in the petroleum industry copies of the first-aid illustrations in the Ivy report as published in the December issue of the Journal of the American Medical Association.
2. That the Medical Advisory Committee should study all methods of artificial respiration with a view to recommending one or more methods as alternate to the Schaefer method.

ACTION The report was accepted.

VI

REPORT OF SUBCOMMITTEE ON TOXICOLOGICAL REVIEWS -
DR. MARSHALL CLINTON, CHAIRMAN

On behalf of the subcommittee, Doctor Clinton reported four recommendations as follows:

1. That future issues of toxicological reviews, either new or revised, need not be printed by letter press method but may be produced by variotype-planograph or other suitable economical methods.
2. That the following nine reviews now acceptable to the General Committee, Division of Refining, should be published:

Acetic acid	Cyclohexane
Acetone	Hydrogen fluoride
Beta-naphthol	Methylcyclohexane
Butyl acetate	Phosphoric acid
Carbon monoxide	

3. That the remaining 7 revised drafts and 6 tentative drafts of reviews should be accepted by the Medical Advisory Committee and, subject to editorial revisions, should be referred to the General Committee, Division of Refining and the Safety Committee of the Board of Directors with recommendation for publication.

4. That the subcommittee should be authorized to formulate plans for 5-year periodic revision of each Toxicological Review; such plans to be reported at the fourteenth meeting of the Medical Advisory Committee.

ACTION

1. The report was accepted.
2. The committee voted down a proposal to restrict the distribution of toxicological reviews to member companies of the American Petroleum Institute.

VII

REPORT OF CONSULTANT - PROFESSOR PHILIP DRINKER

The committee received a thought-provoking report including comment on the growing need and scarcity of adequately educated and trained industrial hygienists.

VIII

REPORT OF SUBCOMMITTEE ON FLUORIDES - DR. A. E. HOAG, CHAIRMAN

On behalf of the subcommittee, Doctor Hoag presented a brief report on the need for semi-annual technical progress reports on the desirability of the fluoride project being considered by the Committee on Disposal of Refinery Wastes, and on the need for information to be supplied by members of the committee. (Copy of subcommittee report is attached as Appendix B.)

ACTION The report was accepted.

IX

REPORT OF SUBCOMMITTEE ON ECONOMIC POISONS -
DR. T. J. KELLY, CHAIRMAN

On behalf of the subcommittee, Doctor Kelly referred to communications received from Doctor Kehoe and E. A. Snyder, Chairman, API Committee on Agriculture, and to a brief dated November 30, 1950 as presented before the Food and Drug Administration in Docket No. FDC-57 concerning petroleum oil sprays in behalf of five oil companies. (Copy of subcommittee report is attached as Appendix C.)

Doctor Kelly reported that the information given in the brief solved the problem previously considered, but he recommended the continuation of the subcommittee in the expectation that future problems may arise.

ACTION The report was accepted.

X

SUBCOMMITTEE ON CUTTING FLUIDS - DR. F. F. BOYS, CHAIRMAN

The committee received a brief progress report from Doctor Boys. (Copy of letter dated April 4, 1951 from W. H. Oldacre is attached as Appendix D).

XI

SUBCOMMITTEE ON EYE HAZARDS - DR. KIEFFER DAVIS, CHAIRMAN

The committee received the chairman's progress report and voted to continue the subcommittee pending developments incidental to the work of the Institute's Lubrication Committee.

XII

SUBCOMMITTEE ON MEDICAL POLICIES & PRACTICES
DR. L. E. CURTIS, CHAIRMAN

Doctor Curtis stated that the catalogue of medical department forms had been brought up-to-date by the receipt of a number of new and revised forms which had been supplied by the members.

XIII

NEW BUSINESS

A. Physiological Effects of Atmospheric Pollutants.

On behalf of an informal group of members, Doctor V. C. Baird reported recommendations as follows:

1. We recommend that the Medical Advisory Committee should recognize the importance of certain atmospheric pollutants such as sulfuric acid mist, SO_2 , SO_3 , and HCl , in their potential effects on the respiratory pattern and on general physiology.
2. We further recommend that the chairman should appoint a Subcommittee on Atmospheric Pollutants to study ways and means of gathering information on this subject and to report its recommendations at the fourteenth meeting of the Medical Advisory Committee.

ACTION The committee voted to accept these recommendations.

B. Aromatic Hydrocarbons - C₉, C₁₂.

Doctor Eckardt suggested a reconsideration of the decision to defer research work on aromatic hydrocarbons as made at the ninth meeting April 2, 1949.

ACTION The committee favored a circularization of the members to ascertain the extent of their interest with the understanding that in the event of a substantial showing of interest the chairman will appoint a special subcommittee to formulate recommendations for consideration at the fourteenth meeting.

C. Physiology of Skin.

Dr. Eckardt introduced and Dr. Kehoe discussed a Kettering project of fundamental research on the physiology of skin.

ACTION The committee voted to appoint a small subcommittee to study the matter and to report recommendations.

D. Fourteenth Meeting.

The committee voted to hold its fourteenth meeting in the Stevens Hotel, Chicago, Illinois on Friday and Saturday, November 2 and 3, 1951.

XIV

ADJOURNMENT

There being no further business to be acted upon the meeting was adjourned.

* * * * *

EXECUTIVE SESSION

NOTE: In the absence of business requiring executive action the executive session was not held.

* * * * *

Marshall Clinton, M.D.
Secretary

Approved:
B. B. Reeve, M.D.
Chairman

5/21/51

For Information Only - Not For Publication

APPENDIX A

To Minutes of 13th Meeting of Medical Advisory Committee

MEMORANDUM ON MEASURES FOR THE CONTROL OF THE HAZARD ASSOCIATED
WITH CARCINOGENIC MATERIALS AND PRODUCTS IN THE PETROLEUM INDUSTRY

In considering the general problem of the inauguration and implementation of precautionary measures in the light of the available information, sober judgment rather than alarm should prevail. This investigation was initiated by responsible representatives of the petroleum industry, and undertaken by the staff of the Kettering Laboratory, in the belief that this potential hazard was worthy of careful investigation, and that the facts, so far as possible, should be established in time to prevent any possible serious consequences to employees of the industry and to consumers of its products. No evidence has been adduced, thus far, of the existence of occupational cancer in association with the new materials and products now being subjected to study. Thus the situation in that regard is unchanged by the investigations of the Kettering Laboratory, although it cannot be said that information concerning employees of the petroleum industry has been sought widely or systematically, or obtained to such an extent as to justify any valid conclusion on this point.

On the other hand, the information obtained by animal experimentation, while not strictly applicable to man or to the conditions of his occupational exposure, is such as to strengthen the suspicion which was originally responsible for these investigations, that an occupational hazard exists. Ordinary prudence, therefore, would suggest that a program which will lead step-wise to appropriate and effective measures of control be evolved, and that preparation be made for its general application. It is apparent that the petroleum industry will proceed, not in disregard of the safety of its employees, but in frank recognition of any hazard that may exist and of the measures necessary to control such hazard, to develop and fulfill its economic and technologic role in our industrial society. This it should do, in the assurance that there are procedures in the armamentarium of industrial hygiene which can be applied effectively to the solution of this problem. It seems desirable at this time to visualize these procedures, and to point out their applicability in principle to the situation which seems to exist.

One is concerned, at this point, not with the avoidance of moral or economic liability or responsibility, if and when occupational disease should develop, but rather with the prevention

of such disease, so far as possible, and with the means for its early recognition and effective treatment, if it should occur because of unrecognized faults in the control procedures. What then is to be done? Certainly it is the height of futility, and a mere gesture of piety, to issue warnings and general instructions to employees of the industry, with the idea that absolution has been obtained thereby from responsibility for what may occur. Nothing has been demonstrated more clearly, by the application of modern methods of industrial hygiene, than the necessity of supplementing admittedly wholesome but impersonal educational procedures by careful hygienic and medical supervision applied unremittingly to every pertinent operation and to every individual employee who is involved in potential hazard. No advice or instructions to workmen subjected to an insidious hazard is worth the energy required to enunciate it, or the paper on which it is written, unless it is interpreted by intelligent demonstration at the site of the hazard, implemented by suitable and adequately maintained equipment, and reinforced by the medical supervision that will detect the early evidences of inadequacies in preventive measures, or departures therefrom. Incidentally, the facts concerning the incidence of this occupational disease, or conversely, the facts which will prove that the hazard and the disease potentially deriving therefrom are nonexistent, can only come from the type and quality of medical supervision envisioned above, provided on a broad base in the petroleum industry. Therefore, not only the control of this hazard, if it proves to be significant, but also the establishment of its significance, in terms of attack rates and other epidemiologic data now being sought, are dependent upon the quality and quantity of such hygienic and medical supervision in the petroleum industry. Without such facilities the epidemiologic phase of this investigation is doomed to dismal failure.

In accordance with these policies, which are the fundamentals of industrial hygiene, the industry should give careful consideration to the means by which it can prepare itself to meet the challenge of the serious occupational hazard, which seems likely to be found. In so doing it will find itself in a strategic position in relation not only to this problem but to others which will arise inevitably out of the future activities of a dynamic technologic industry. The answer to present and future problems of this type is more and better industrial medicine, and more and better technologic understanding and control of the hazards of the industrial environment. In this organized regimen, general sanitation, good housekeeping, the inculcation of appropriate procedures and habits of personal cleanliness and hygiene among employees, and the application of specific safeguards against specific occupational hazards will fit into their proper places simply and as a matter of routine. Without such an organized regimen, these procedures will be sporadic, fortuitous and ineffectual.

In our opinion, in relation to the potential hazards under consideration here, the industry should first examine carefully

APPENDIX A - 3

all of the technologic and operational possibilities (segregation and control of materials for specific uses, dilution of potentially dangerous materials, and like measures) for the limitation and prevention of the hazard. In view of the apparent significance of the remaining hazard, it should then consider how best and most expeditiously it can provide itself, generally, with the organized hygienic facilities required for the appraisal and control of this and other occupational hazards.

Signed: /s/ Robert A. Kehoe
Robert A. Kehoe, Director
The Kettering Laboratory
College of Medicine
University of Cincinnati

April 12, 1951

For Information Only - Not For Publication

APPENDIX B

To Minutes of 13th Meeting of Medical Advisory Committee

REPORT OF SUBCOMMITTEE ON FLUORIDES - DOCTOR A. E. HOAG, CHAIRMAN

I

Commenting on the Fluoride work at Kettering Laboratory, it was the consensus of the subcommittee that at least some brief report of technical progress be made prior to the holding of each API Medical Committee meeting. Such report need only summarize the technical findings and conclusions so that some idea may be had by the subcommittee of the progress of the work and permit intelligent decision to be made relative to continuation of the work. No action on appropriation of monies is necessary at this time.

II

The subcommittee expressed sympathy with the "Proposed Study of Fluoride Damage to Vegetation" and requested their feelings in this matter be transmitted to the API Committee on Disposal of Refinery Wastes. While API Medical Committee is not directly concerned, it is recognized that ingestion of Fluoride containing vegetation and water may lead to animal Fluorosis.

III

It is proposed to the API Medical Committee that company members thereof report to the chairman and members of the Fluoride Subcommittee on a voluntary basis, incidents of health and agriculture damage attributable to Fluorides and that such information be studied and tabulated by the Fluoride Subcommittee, and where expedient, be released to the members of the API Medical Committee generally.

For Information Only - Not For Publication
APPENDIX C

AMERICAN PETROLEUM INSTITUTE

50 WEST 50TH STREET

NEW YORK 20, N. Y.

May 11, 1951

Memorandum to: Mr. D. V. Stroop

Dr. Thomas J. Kelly of the API Medical Advisory Committee, directed a letter dated March 9, 1951 to Mr. E. A. Snyder, Chairman of the Committee on Agriculture, calling the latter's attention to the following motion which was made November 10, 1950 during the session held by the medical group:

"That a recommendation be made to the appropriate committee of the API to determine which petroleum products, and in what amounts, may exist as spray residue in food products."

In the thought that the Medical Advisory Committee may not have been familiar with previous excellent work along this line, Mr. Snyder replied to Dr. Kelly under date of March 16, 1951, citing facts presented by five cooperating companies before the Food and Drug Administration during the latter part of 1950. A copy of that complete report is attached.*

We have recently learned that Dr. A. E. Griffiths of Socony-Vacuum; Charles Daniels, Entomologist with the Shell Chemical Corporation; and Leo Gardner, Vice President of California Spray-Chemical Corporation made up a Technical Advisory Committee to assist in the preparation of facts which were included in the report presented to the Food and Drug Administration.

The actual presentation before the Administrator was made by Dr. Willard Machle, who is associate clinical professor of preventive medicine at the New York College of Medicine. Dr. Machle had as his counsel, Mr. John D. Conner, Washington, D. C. attorney. The five companies cooperating in presentation of this report did so as the result of an invitation to all interested oil companies issued by the National Agricultural Chemical Association. Dr. Machle and John Conner also represented the chemical group in similar presentations to the Food and Drug Administration.

(Dr. Griffiths served as Chairman of the Technical Advisory Committee. He is located at the company's research laboratories in Brooklyn and during a recent telephone conversation, told us that he had no knowledge of any recent interest on the part of the Medical Advisory Committee concerning this subject, and added that he would be very happy to cooperate in presentation of any available facts.)

* Copies are not available for members and associates of Medical Advisory Committee.

Companies responding to the invitation of the NACA are:

California Spray-Chemical Corporation
The Shell Chemical Corporation
Socony-Vacuum Oil Company
The Standard Oil Company of Indiana
The Standard Oil Company of Ohio

A brief summary of evidence presented follows:

Statement of Issue

- I. The decision of whether petroleum oil is a poisonous or deleterious substance is not an absolute determination which can be made in a void, but one which must be made on the basis of its use as a pesticide.
- II. Petroleum oil pesticides are required in the production of fruits and vegetables.
 - A. Petroleum oil sprays are used both alone and in conjunction with other insecticides and fungicides.
 - B. Petroleum spray oils are highly refined fractions from which there has been removed substantially all the reactive olefinic and aromatic hydrocarbons.
 - C. Petroleum oil sprays are suitable and are extensively used for controlling the wide range of pests which must be controlled in the commercial production of fruits and vegetables.

Material presented on Pages 72-80 seems to best summarize evidence presented in the language of the layman.

Quoting directly --

"Due to the fact that petroleum oil sprays have been used for the control of pests since about 1875, and because these materials have been generally considered to present no residue hazard, very little data is available on the precise quantity remaining on the mature fruit or vegetable. The evidence which was presented establishes clearly, however, that the residues at time of harvest do not exceed trace amounts in most instances. In a majority of the cases no residue remains at harvest"

Pg. 76 -- Para. 2 --

"Against this background, we turn to the question of whether either the normal use or the possible misuse of petroleum sprays presents any hazard to the public health

"In considering the possibility of injury from acute toxicity we must consider not only the normal use, but also the possible occasional misuse. As has been noted above, the normal use of petroleum sprays results in no residue at harvest in the majority of cases and in only 'trace quantities' in the other cases. Therefore there is no possibility of injury to the consumer from acute toxicity in the normal use of petroleum sprays."

Pg. 77 -- Para. 2 --

"There is, of course, the possibility that occasionally petroleum sprays will be misused with a resultant higher residue, although there is no evidence in the record of any such instances."

Pg. 78 -- Para. 1 --

"This leaves as the only possible type of injury to the consumer from the use of petroleum sprays, that arising from chronic ingestion. In evaluating the possibility of chronic toxicity, from continuous ingestion over a period of time, we believe we need to consider only the trace residues which will result from normal use of petroleum sprays. While there is a possibility that occasionally a producer might apply the spray at a heavier than normal rate, or closer to harvest than is usual, we do not believe that there is possibility that this will be done frequently enough to be of any significance."

Pg. 78 -- Para. 2 --

"We believe that the evidence conclusively establishes that the smallest quantity of petroleum oil which could produce a deleterious physiological effect if it were continuously ingested daily over long periods of time is so much larger than this daily intake of assumed trace residues that there is automatically a safety factor far in excess of that required by either the normal use or any conceivable misuse of these sprays."

Information which we have been able to gather indicates that individual companies within the industry are following this subject closely and there appears to be no necessity for any study or research project being undertaken by any committee of the American Petroleum Institute.

APPENDIX C - 4

Perhaps this exchange of information and the citing of names of individuals who have taken a leading part in this research work, will be helpful to the Medical Advisory Committee.

For your information.

Lowell A. Kern, Executive Secretary
Committee on Agriculture

LAK:ht
Enc.

For Information Only - Not For Publication

APPENDIX D

D. A. STUART OIL CO., LTD.
2727 South Troy Street
Chicago 23, Illinois

April 4, 1951

B. B. Reeve, M.D.
Medical Director
STANDARD OIL COMPANY (Ind.)
910 South Michigan Avenue
Chicago, Illinois

Dear Mr. Reeve:

Your letter of April 2nd has been transmitted to me en route. I do not have complete files with me, so trust that the following information will be helpful to you.

The sub-panel on Detergent Oil Hygiene has a definite program of laboratory investigation under way and a complete report will be available as soon as it has been approved by the panel. This program involves the actual biological testing of the most widely used detergent additives.

The Cutting Fluid Hygiene Panel is meeting in Detroit on April 10th and I hope that they are able to formulate a constructive program. To date the difficulty seems to be that there is so little actual trouble encountered in industry and interest on the part of consumers and suppliers of cutting fluids is not easily aroused.

I expect to return to Chicago upon the 12th and will get in touch with you by phone shortly after my arrival.

Dr. Kieffer Davis has written to Mr. K. G. Mackenzie and I have received a copy of Mackenzie's reply to him, so that he is in possession of the information regarding the Hygiene Panel substantially as I have written it to you.

Sincerely yours,

/s/ William H. Oldacre

W. H. Oldacre

WHO:b

AMERICAN PETROLEUM INSTITUTE

50 WEST 50TH STREET

NEW YORK 20, N. Y.

DEPARTMENT OF TECHNICAL SERVICES
DAVID V. STROOP, DIRECTOR

March 21, 1951

To Members and Associates
Medical Advisory Committee and Its Subcommittees

Gentlemen:

Pursuant to requests made by subcommittee chairmen, we have made meeting room assignments in the Hotel Haddon Hall, Atlantic City, New Jersey, as follows:

FRIDAY, APRIL 20, 1951

9:00 - 10:00 A.M. - Bakewell Room - Subcommittee on First Aid
Chairman: Dr. T. M. Frank

10:00 - 11:00 A.M. - Bakewell Room - Subcommittee on Toxicological Reviews
Chairman: Dr. Marshall Clinton

10:00 - 11:00 A.M. - Rowsley Room - Subcommittee on Fluorides
Chairman: Dr. A. E. Hoag

11:00 - 12:00 Noon - Bakewell Room - Subcommittee on Economic Poisons
Chairman: Dr. T. J. Kelly

(No arrangements have been made for members to lunch together.)

2:00 - 6:00 P.M. - Tower Room - Subcommittee on Carcinogenicity
Chairman: Dr. M. N. Newquist

.....

The Medical Advisory Committee is scheduled to meet on

SATURDAY APRIL 21, 1951 AT 9:00 A.M.

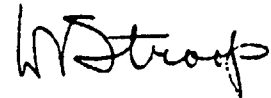
in the Mandarin Room, Tower Floor, of the Hotel Haddon Hall.

An executive session of the committee will be announced at the conclusion of the Saturday morning session.

You will recall action taken at the 1950 Annual Meeting, when it was voted to restrict attendance at subcommittee meetings and executive sessions to members and associates. You will also recall it was agreed that members and associates could extend invitations to guests to attend the morning session of the Medical Advisory Committee, provided the names of guests were given to the chairman prior to the meeting.

Due to attendance at a meeting in Kansas City, Missouri, on Thursday, it may be impossible for me to attend the subcommittee meetings on April 20; therefore, arrangements have been made for E. O. Mattocks to attend the meetings in Atlantic City. He will assist the subcommittees and the Medical Advisory Committee in every possible way.

Very truly yours,

A handwritten signature in dark ink, appearing to read "W. J. Stroup". The signature is written in a cursive style with a large, prominent "W" and "J".

DVS:c

Enclosure

mc: E. O. Mattocks

AMERICAN PETROLEUM INSTITUTE
MEDICAL ADVISORY COMMITTEE

TWELFTH MEETING

Minutes of Meeting
November 10, 1950
Biltmore Hotel
Los Angeles, California

MEMBERS PRESENT

Kieffer Davis - Chairman
B. B. Reeve - Vice Chairman
Marshall Clinton - Secretary

V. C. Baird	T. J. Kelly	R. C. Page
L. E. Curtis	James W. Long	(Rep. by T.E. Allen)
T. M. Frank	E. P. Luongo	Chas. A. Swan
A. E. Hoag	M. N. Newquist	E. Richmond Ware
		McIver Woody

ASSOCIATES PRESENT

L. C. Beard, Jr.	J. E. Hill	D. W. Larmer
J. S. Boylan	R. M. Landon	(Rep. by C.K. Hewes)
R. C. Cole	H. P. Lankelma	K. G. Mackenzie
R. W. Faulk	(Rep. by F.J. Sanders)	R. M. Shepardson
L. M. Henderson		H. D. Wilde
(Rep. by R.J. Askevold)		

GUESTS

Richard Dillon - Standard Oil Company of California, Los Angeles
Philip Drinker - Harvard University, Boston
R. E. Eckardt - Standard Oil Company (New Jersey), New York
Charles Henri Hine - Shell Development Company, Emeryville
A. W. Horton - University of Cincinnati, Cincinnati
Robert A. Kehoe - University of Cincinnati, Cincinnati
R. C. Mithoff - California Research Corporation, San Francisco
John J. Phair - University of Cincinnati, Cincinnati
H. W. Prince - Standard Oil Company of California, El Segundo

API STAFF

D. V. Stroop

Total in Attendance - 37

MEMBERS ABSENT

W. O. Armstrong	D. M. English	E. K. Linder
F. F. Boys	J. P. Holt	Robert B. Lynn
Wm. Crookshank	W. R. Levis	Clark R. Miller

ASSOCIATES ABSENT

E. W. Adams
W. R. Argyle
R. D. Bent
C. L. Brown
C. R. Brown
L. O. Crockett

J. B. DeLaune
T. E. DeVilliers
Allan E. Dooley
R. S. Driver
N. J. Gothard

E. W. Isom
C. R. McKay
C. A. Neilson
W. H. Price
R. B. Roaper
F. M. Watkins

I

MINUTES OF ELEVENTH MEETING

ACTION The committee voted to approve the minutes of the eleventh meeting as circularized.

II

REPORT OF SUBCOMMITTEE ON CARCINOGENICITY - DR. McIVER WOODY, CHAIRMAN

On behalf of the subcommittee, Doctor Woody reported five recommendations for adoption and transmittal to the Safety Committee of the Board of Directors, as follows:

1. That the progress report of the Kettering Laboratory be received as presented.
2. That copies of the report be sent to the British Institute of Petroleum.
3. That the work of the Kettering Laboratory be continued and that the present scope be maintained under the supervision of this subcommittee.
4. That funds be provided, not in excess of \$100,000.
5. That, although publication of the entire report would be premature, it might be well to publish the standardization procedures, with a statement to the effect that too high a concentration of a carcinogen conceals its relative potency unless the frequency of application is reduced.

ACTION The committee voted to accept the report with the understanding that the matter of publishing all or any part of the report would be more specifically and fully discussed prior to release of any information or statements on the work at Kettering Laboratory.

Notes:

1. Copies of the progress report of the Kettering Laboratory were circularized to all members and associates prior to November 10; therefore, copies are not attached to these minutes. Additional copies may be obtained by members and associates upon request to D. V. Stroop.
2. A brief summary of the Kettering project has been prepared by Doctor Kehoe. Copies were given to those in attendance at the Los Angeles meeting and are attached to the minutes which are being sent to those who did not attend the meeting. Extra copies may be obtained upon request.
3. Copies of both reports will be sent to members of the Safety Committee of the Board of Directors and to the General Committee, Division of Refining.

III

REPORT OF CONSULTANT - PROFESSOR PHILIP DRINKER

Professor Drinker said he had no formal report to make but wished to remind the members that he is serving as consultant on industrial-hygiene problems and as such he will be glad to attempt to answer reasonable questions received from members and others cooperating in the work of the API Medical Advisory Committee. He expects to attend both the annual and mid-year meetings of the committee and to keep committee members posted on MAC values current or suggested by the various agencies concerned. He or his colleagues will be available for a limited number of brief plant visits and inspections upon payment of travel expense by interested companies; provided, of course, that any prolonged studies or extended plant inspections would have to be especially arranged to cover costs of services as well as travel expense.

Note: For convenient reference Professor Drinker's office and home addresses are recorded as follows:

Office: Harvard University
School of Public Health
55 Shattuck Street
Boston 15, Massachusetts
Telephone: LONGwood 6-2380

Home: 12 Hubbard Park
Cambridge 38, Massachusetts
Telephone: ELiot 4-2813

IV

REPORT OF SUBCOMMITTEE ON PERMISSIBLE CONCENTRATIONS - DR. V. C. BAIRD, CHAIRMAN

On behalf of the subcommittee, Doctor Baird reported that the final report of the API project at the Harvard School of Public Health has been received and sent to all members and associates.

He also reported two recommendations, as follows:

1. That the Subcommittee on Permissible Concentrations, as originally constituted, be dissolved, and that future specific problems be referred to specifically constituted subcommittees, as was done in the case of the Subcommittee on Economic Poisons.
2. That the attention of the Medical Advisory Committee be called to the fact that no provision has been made to review periodically and keep the Toxicological Reviews up-to-date, that it is desirable to do so, and that consideration be given to the appointment of a Subcommittee on Toxicological Reviews to consider ways and means of doing this.

ACTION

The committee voted unanimously to:

1. Accept the subcommittee report.
2. Authorize the chairman to appoint a Subcommittee on Toxicological Reviews.
3. To discharge the Subcommittee on Permissible Concentrations with a rising vote of thanks to the chairman and members for the excellent results they had accomplished.

V

REPORT OF SUBCOMMITTEE ON CUTTING FLUIDS - DR. B. B. REEVE, CHAIRMAN

On behalf of the subcommittee, Doctor Reeve reported as follows:

Inasmuch as erroneous or misleading information continues to appear in public press, it is the recommendation of this subcommittee that the members send to the API material appearing in publications, trade journals, technical literature, etc., on cutting oil dermatoses.

That such articles be submitted to the members of this subcommittee for review and consideration and they in turn submit same to the API Medical Advisory Committee with their recommendation for handling or disposing of such material.

We also wish to call to your attention a letter sent to you by Mr. Stroop on October 24, 1950 informing you of the setting-up of two sub-panels of the Hygiene Panel of the Marketing Division.

One of these sub-panels is on Cutting Fluid Hygiene. The chairman is W. H. Oldacre. One of the duties of this sub-panel is to study the problem of cutting oil dermatoses as it pertains to the petroleum industry.

We have been assured of the closest contact between this subcommittee and that of our own, and as soon as they have developed a program it will be submitted to the members of our Subcommittee on Cutting Fluids for review and consideration and they in turn will submit same with their recommendations to the API Medical Advisory Committee for final action.

ACTION The committee voted to accept the report.

VI

REPORT OF SUBCOMMITTEE ON FLUORIDES - DR. A. E. HOAG, CHAIRMAN

On behalf of the subcommittee, Doctor Hoag recommended that the Medical Advisory Committee should include in its budget for 1951-52 an item of \$2,500 for continuation of the cooperative work on fluorides at Kettering Laboratory, but that the expenditure of the fund should be contingent on the continuing support of a majority of the other cooperating groups. (Copy of subcommittee report is attached as Appendix A.)

ACTION The committee voted to adopt the subcommittee recommendation.

VII

REPORT OF SUBCOMMITTEE ON MEDICAL POLICIES AND PRACTICES - DR. L.E. CURTIS, CHRMN

On behalf of the subcommittee, Doctor Curtis reminded those present that the subcommittee's program was limited to the gathering and dissemination of information from and to the committee members on subjects of mutual interest relating to medical policies and practices. The specific subjects to be included in the program are based upon inquiries from members, or by committee assignments, or by consensus of subcommittee members as approved by the committee.

He stated that the only subject actively handled by the subcommittee was the compilation of 1949 medical-departmental forms. He recommended that this compilation should be kept up-to-date by an annual request for latest revisions on all forms.

ACTION The committee voted to accept the report and to continue the subcommittee.

VIII

IN APPRECIATION

On behalf of the associate members, K. G. Mackenzie proposed that the Medical Advisory Committee should recognize and express appreciation of the valuable services rendered by Doctor McIver Woody. He proposed the presentation of a suitably inscribed and subscribed certificate worded as follows:

The Medical Advisory Committee
of the
American Petroleum Institute

recognizes the valuable services of its first Chairman

McIVER WOODY, M.D.

and expresses its appreciation of his inspiring leadership as one of its founding members and as Chairman of its Subcommittee on Carcinogenicity.

Los Angeles, California
November 10, 1950

(Space for signatures)

ACTION By rising vote the committee recognized and expressed its appreciation of the valuable services rendered by Doctor Woody and voted to record this action in the minutes and to prepare and present the certificate as proposed.

IX

REPORT OF SUBCOMMITTEE ON FIRST AID - DR. M. N. NEWQUIST, CHAIRMAN

On behalf of the subcommittee, Doctor Newquist moved the acceptance of the following report:

Pursuant to action taken at the April 1950 meeting of the Medical Advisory Committee, a Subcommittee on First Aid was appointed to review from a medical standpoint the proposed First-Aid and Safety-Training Course to be sponsored by the API. Due to certain objections to proposed awards and schools for instructors, the subject was referred back to the Central Committee on Accident Prevention for review and/or modification by its Committee on First Aid.

In the interim the Committee on First Aid, of which C. A. Miller is chairman, has changed the title of the proposed "First-Aid and Safety-Training Course" so that it now reads, "American Petroleum Institute, First-Aid and Safety-Training Guide for the Men and Women of the Petroleum Industry." This change was made to avoid implication of duplicating or replacing other standards for first-aid training. If the proposed API schools for instructors and awards for life saving and rendering other meritorious first aid are eliminated, and if the guide and other visual aids are made available at nominal cost, it would seem that the API first-aid program would be more attractive to the various companies. Your subcommittee believes that there is a need in the petroleum industry for abbreviated training and retraining in the fundamentals of first aid.

The scope of the proposed guide appears to be generally adequate and includes the following essential points in first-aid training:

1. Artificial respiration,
2. Control of bleeding.
3. Treatment of shock.
4. Care of open wounds and burns.
5. Care of dislocations and fractures.
6. Transportation of injured.

Since we are now in the atomic age and in view of existing circumstances, this subcommittee believes that the proposed guide should include a brief presentation of appropriate measures to be taken by individuals before, during, and after atomic attack. In this connection, it is emphasized that individual defense efforts should be coordinated with that of the local civilian defense program.

If and when the proposed Guide for First Aid and Safety Training has had official approval in principle by the API, your subcommittee will again review the guide in conference with the Committee on First Aid in an effort to finalize it. It is planned to circularize the guide to members of the Medical Advisory Committee for comment prior to its release.

In connection with injuries resulting from specific hazards, this subcommittee believes that it is the responsibility of the respective medical and safety departments concerned, to determine the nature of the first aid to be rendered.

ACTION The report was accepted.

X

REPORT OF SUBCOMMITTEE ON ECONOMIC POISONS - DR. T. J. KELLY, CHAIRMAN

On behalf of the subcommittee, Doctor Kelly moved the acceptance of the report and adoption of two subcommittee actions, as follows:

A quorum representation of the Subcommittee on Economic Poisons has given consideration and general discussion to:

1. The nature and extent of the problem of economic poisons as it relates to the petroleum industry.
2. The committee's responsibility in meeting this problem with regard to the scope of its activity.

General discussion, including correspondence from Mr. Conley of the American Medical Association, from Doctor Baird, Doctor Kehoe, Doctor Hoag, and Mr. Griffith, was centered about the scope of the problem of the oil industry's responsibility in the matter, and sufficiency of information presently available on the subject. In this discussion a line of demarcation was drawn between the medical responsibility with regard to physiologic effects and the non-medical responsibility with regard to investigation of residues.

The consensus of opinion was that there is insufficient knowledge available at present on the physiologic effects of certain vehicles and solvents used in economic poisons. The committee members agreed that it would be the

intent of this committee to investigate physiologic effects if so requested. A motion was made and carried, as follows:

That a recommendation be made to the appropriate committee of the API to determine which petroleum products, and in what amounts, may exist as spray residue on food products.

A second motion was also made and carried, as follows:

That a letter be addressed to Mr. Conley indicating the interest of this committee in the problem of physiologic effects of economic poisons, and that the committee, if requested by the API, will attempt to investigate physiologic and health aspects of the problem and develop information regarding any potential hazards to health which may exist in the use of petroleum products as vehicles or solvents in pesticides, insecticides, fungicides, and other economic poisons.

ACTION The committee voted to accept the report.

XI

REPORT OF SUBCOMMITTEE ON EYE HAZARDS - DR. F. F. BOYS, CHAIRMAN

In the absence of Doctor Boys, the chairman reported that the subcommittee was remaining inactive pending the formulation of the objectives of the Hygiene Panel of the Institute's Lubrication Committee. It is understood that the Hygiene Panel will call upon the subcommittee for advice on medical phases of its work.

ACTION The committee received the report and voted to continue the subcommittee.

XII

REPORT OF EDITORIAL SUBCOMMITTEE - DR. MARSHALL CLINTON, CHAIRMAN

Doctor Clinton reported on status of subcommittee work, as follows:

The present status in regard to publication of the various Toxicological Reviews is as indicated on the attached memorandum prepared by Mr. Stroop (See Appendix B for status of unpublished Toxicological Reviews).

Comments on the reviews which have been approved for publication have gradually been collected and copies of the comments are now in the hands of the Editorial Subcommittee. So far, the subcommittee has not met and integrated these into the various reviews, since the General Committee, Division of Refining, and the Safety Committee of the Board of Directors have not yet decided on the matter of publishing these reviews.

ACTION The progress report was received.

XIII

KETTERING LABORATORY PROGRAM OF EDUCATION IN INDUSTRIAL MEDICINE

Upon request Doctor Kehoe described in detail the program of graduate work in industrial medicine which was being established as a result of the favorable response to his letter of May 9 and memorandum of March 15 on this subject.

Doctor Kehoe's explanation and the ensuing discussion brought about a better understanding of the matter and dissolved objections which had been voiced by some members.

XIV

NEW BUSINESS AND ADJOURNMENT

In the absence of any new business, the chairman announced the convening of an executive session at 2:00 P.M., and the adjournment of the open meeting.

.....

EXECUTIVE SESSION

THOSE PRESENT

Kieffer Davis - Chairman
B. B. Reeve - Vice Chairman
Marshall Clinton - Secretary

V. C. Baird	A. E. Hoag	W. H. Price
L. C. Beard, Jr.	T. J. Kelly	F. J. Sanders
R. C. Cole	R. M. Landon	R. M. Shepardson
L. E. Curtis	E. P. Luongo	D. V. Stroop
R. E. Eckardt	K. G. Mackenzie	Chas. A. Swan
R. W. Faulk	M. N. Newquist	E. Richmond Ware
T. M. Frank		McIver Woody

.....

A

INSPECTION AND CERTIFICATION OF INDUSTRIAL MEDICAL ESTABLISHMENTS

Those present discussed a memorandum dated August 1950 which was addressed to the Fund Raising Committee, American Foundation of Occupational Health, relating to a program for inspection, consultation, and certification for individual industrial medical establishments which has been provided for many years by the American College of Surgeons.

It was the consensus of those present that the service which has been provided by the American College of Surgeons was important and its continuation should have the support of industry.

B

BUDGET FOR FISCAL YEAR 1951-52

Budgetary recommendations were submitted as follows:

1. <u>University of Cincinnati</u>	<u>Minimum</u>	<u>Maximum</u>
Carcinogenicity	\$85,000	\$100,000
Fluorine Study*	0	2,500
2. <u>Philip Drinker</u>	5,000	5,000
TOTAL	\$90,000	\$107,500

It was reported that oil-company contributions to the API Medical Research Fund for 1950-51 as of November 1, 1950 totaled \$94,825.

ACTION The committee voted to adopt and to ask approval of the budget recommendations for 1951-52, and to request authority for the Institute to solicit contributions from oil companies in the same amounts as those given in 1950.

Note: In the absence of a meeting of the Safety Committee of the Board, the Program and Budget Review Committee was asked to review and the Executive Committee of the Board was asked to approve a 1951-52 budget of estimated expenditures in the amount of \$100,000, and to authorize the solicitation of \$94,825 on the basis of 1950 contributions. The necessary approvals and authorizations were granted.

C

OPEN AND CLOSED MEETINGS OF MEDICAL ADVISORY COMMITTEE AND ITS SUBCOMMITTEES

Members expressed opinions that the committee work was being delayed and in some cases jeopardized by the number of guests in attendance, particularly when guests are unknown and unidentified.

It was generally agreed that invited guests should be privileged to attend but in each case all members should be notified in advance of such attendance, if possible.

* Contingent upon continuation of cooperative work by industrial group, and that API share of cost shall not exceed 25 per cent of the total cost during the year.

ACTION

The committee voted as a matter of policy that future meetings of the Medical Advisory Committee and its subcommittees should be "closed" except for the first of the two sessions of the Medical Advisory Committee.

D

PUBLICATION OF RESEARCH DATA

Members discussed at length the problems incidental to the publication of research data resulting from Project M2 at Kettering Laboratory.

Reference was made to the second paragraph on page 28 of the current interim report which stated:

"However, it was apparent to all who considered this problem critically that the results obtained in the determination of the physical properties of materials or with their effect on experimental animals could not be translated readily or directly into probable human reactions. Likewise, even if a correlation of physical properties and the response of man should be demonstrated under a given set of circumstances, it would be difficult to relate isolated observations to the various levels of possible employed exposure associated with the several refining processes."

ACTION

The committee voiced its sympathetic understanding of the need for prompt publication of research data resulting from the work at Kettering Laboratory, but voted that the first article of the series should be a general introductory paper prepared by Doctor Kohoe to prepare the way for the more specific data which would be published subsequently.

E

THIRTEENTH MEETING

ACTION

The committee voted to hold its thirteenth meeting at the Hotel Haddon Hall, Atlantic City, New Jersey, on Friday and Saturday, April 20-21, 1951, immediately preceding the meeting of the American Association of Industrial Physicians and Surgeons.

F

ADJOURNMENT

There being no further business to be considered, the meeting was adjourned.

Approved:

Kieffer Davis, M.D.
Chairman

Marshall Clinton, M.D.
Secretary

1-5-51

For Information Only - Not For Publication

APPENDIX A

To Minutes of 12th Meeting of Medical Advisory Committee

REPORT TO THE API MEDICAL ADVISORY COMMITTEE

BY THE SUBCOMMITTEE ON FLUORIDES

Dr. A. E. Hoag - Chairman

November 10, 1950

Doctor Hoag called attention to Doctor E. J. Largent's publication entitled "Effects of Fluorides on Men and Animals." Reference was made to the visit by Doctors Davis and Hoag to Kettering.

Doctor Kohoe said that several other companies had joined the cooperative sponsoring group; that he was of the opinion said sponsoring group would continue its support. A report has been issued by Kettering on the work to date but had not yet reached API representatives. The main objective of the work at Kettering is to determine the mechanism of the metabolism of the fluoride ion in man and determine what harmful effects, if any, obtain. Studies are also in progress on inhalation of HF to more adequately define toxic concentrations.

Attention was called by Doctor Kohoe to the availability through the sponsoring companies of their independently financed work on effects of HF on vegetation.

Doctor Hoag solicited the opinion of various persons re continued support. The consensus was the work should be continued and the discussion culminated in a motion by Doctor Reeve that it be recommended to the API Medical Advisory Committee to budget \$2,500 for continuation for another year, but that expenditure thereof be contingent on the continuing support of the majority of the other sponsoring groups.

For Information Only - Not For Publication

APPENDIX B

To Minutes of 12th Meeting of Medical Advisory Committee

STATUS OF UNPUBLISHED TOXICOLOGICAL REVIEWS

November 1950

Toxicological Reviews approved by Medical Advisory Committee for publication, and distributed to General Committee, Division of Refining, May 31, 1950:

Acetic Acid	June 1950
Acetone	June 1950
Beta-Naphthol	June 1950
Butyl Acetate	June 1950
Carbon Monoxide	June 1950
Cyclohexane	June 1950
Hydrogen Fluoride	June 1950
Methylcyclohexane	June 1950
Phosphoric Acids	June 1950

Revised Drafts:

*Ammonium Molybdate	June 1949
*Ammonium Nitrate	June 1949
*Amyl Acetate	February 1949
Arsine	May 1950
Butadiene	April 1950
D.D.T.	April 1950
*Ditertiary Butyl Para Cresol	August 1947
*Hydroquinone	March 1950
*Maleic Anhydride	May 1948
*Mesitylene	March 1949
Naphthalene	March 1950
Nickel Carbonyl	February, 1950
Propyl Alcohols	April 1950
*Silica	August 1947
Thiophenyl and the Aromatic Mercaptans	August 1947
*U.C.P. #5	June 1949

Tentative Drafts:

Copper Naphthenate	February 1950
Methyl Alcohol	May 1950
*Phenylalphanaphthylamino & Phenylbetanaphthylamino	July 1947
Pyridine	February 1950
Solvent Naphtha	February 1950
Trichlorethylene	May 1950
Triethanolamine	February 1950

* Approved for publication April 24, 1950 by the Medical Advisory Committee.

T E N T A T I V E A G E N D A

Twelfth Meeting
MEDICAL ADVISORY COMMITTEE
AMERICAN PETROLEUM INSTITUTE

Biltmore Hotel
Los Angeles, California
November 10, 1950

OPEN MEETING - 9:00 A.M.

1. Introduction of new members and guests.
2. Approval of minutes of last meeting.
3. Report of Subcommittee on Carcinogenicity - Dr. McIver Woody, Chairman.
4. Report of Subcommittee on Permissible Concentrations - Dr. V. C. Baird, Chairman.
5. Report of consultant on toxicological matters in petroleum industry - Professor Philip Drinker.
6. Report of Subcommittee on Cutting Fluids - Dr. B. B. Reeve, Chairman.
7. Report of Subcommittee on Fluorides - Dr. A. E. Hoag, Chairman.
8. Report of Subcommittee on Medical Policies and Practices - Dr. L. E. Curtis, Chairman.
9. Report of Subcommittee on First Aid - Dr. M. N. Newquist, Chairman.
10. Report of Subcommittee on Economic Poisons - Dr. T. J. Kelly, Chairman.
11. Report of Subcommittee on Eye Hazards - Dr. F. F. Boys, Chairman.
12. Report of Editorial Subcommittee - Dr. Marshall Clinton, Chairman.
13. Use of API grants for teaching industrial medicine.
(See letter dated July 6, 1950, to Dr. Robert A. Kehoe.)
14. New Business.
15. Adjournment of Open Meeting.

.....

EXECUTIVE SESSION - 2:00 P.M.

- A. Budget of expenditures for 1951-1952.
- B. Committee organization and membership.
- C. Dates and places for 1951 committee meetings.
(The American Association of Industrial Physicians and Surgeons will meet in Atlantic City, New Jersey, April 23-28, 1951.)

In folder for Nov. try

AMERICAN PETROLEUM INSTITUTE

50 WEST 50TH STREET

NEW YORK 20, N. Y.

**DEPARTMENT OF TECHNICAL SERVICES
DAVID V. STROOP, DIRECTOR**

October 16, 1950

To Members and Associates
Medical Advisory Committee and Its Subcommittees

Gentlemen:

The room assignments for meetings of subcommittees of the Medical Advisory Committee to be held in the Biltmore Hotel, Los Angeles, California, are as follows:

THURSDAY, NOVEMBER 9, 1950

9:00 - 10:00 A.M. - Conference Room 5 - Subcommittee on First Aid.
Chairman: Dr. M. N. Newquist

10:00 - 11:00 A.M. - Conference Room 5 - Subcommittee on Economic Poisons.
Chairman: Dr. T. J. Kelly

10:00 - 11:00 A.M. - Conference Room 11 - Subcommittee on Cutting Fluids.
Chairman: Dr. B. B. Reeve

11:00 - 12:00 Noon - Conference Room 5 - Subcommittee on Permissible Concentrations.
Chairman: Dr. V. C. Baird

12:00 - 12:30 P.M. - Conference Room 11 - Subcommittee on Fluorides.
Chairman: Dr. A. E. Hoag

(No arrangements have been made for members to lunch together.)

2:00 - 6:00 P.M. - Conference Room 5 - Subcommittee on Carcinogenicity.
Chairman: Dr. McIver Woody

.....

The Medical Advisory Committee is scheduled to meet on

FRIDAY NOVEMBER 10, 1950 AT 9:00 A.M.

in Room 2228 of the Biltmore Hotel.

Very truly yours,

W. Stroop

DVS:c

AMERICAN PETROLEUM INSTITUTE
80 WEST 50TH STREET
NEW YORK 20, N. Y.

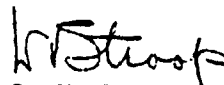
July 25, 1950

To Members and Associates
Medical Advisory Committee

Gentlemen:

In the absence of objections in response to the note at the top of page 5 of the minutes of the Eleventh Meeting of the Medical Advisory Committee, as issued June 23, 1950, the next meetings of the sub-committees and the Medical Advisory Committee will be held at Los Angeles on THURSDAY AND FRIDAY, NOVEMBER 9 AND 10, at the Hotel Biltmore.

Very truly yours,


D. V. Stroop

DVS:c

First Class Mail
API
50 W. South St.

Rec'd 4/28/50

For Information Only - Not For Publication

AMERICAN PETROLEUM INSTITUTE
MEDICAL ADVISORY COMMITTEE

ELEVENTH MEETING

Minutes of Meeting
April 24, 1950
Hotel Sherman
Chicago, Illinois

MEMBERS PRESENT

Kieffer Davis - Chairman
B. B. Reeve - Vice Chairman
Marshall Clinton - Secretary

W. O. Armstrong	J. P. Holt	E. P. Luongo
V. C. Baird	(Rep. by R. E. Eckardt)	M. N. Newquist
F. F. Boys	T. J. Kelly	Chas. A. Swan
T. M. Frank	E. K. Linder	E. Richmond Ware
A. E. Hoag	James W. Long	McIver Woody

ASSOCIATES PRESENT

E. W. Adams	Allan E. Dooley	K. G. Mackenzie
R. D. Bent	R. W. Faulk	C. A. Neilson
R. C. Cole	L. M. Henderson	W. H. Price
L. O. Crockett	R. M. Landon	R. M. Shepardson
T. E. DeVilliers	H. P. Lankelma	F. M. Watkins

GUESTS

R. G. Birrell - Imperial Oil Limited
A. R. Bowles - The Texas Company
Philip Drinker - Harvard University
J. W. Hammond - Humble Oil and Refining Company
A. W. Horton - University of Cincinnati
Robert A. Kehoe - University of Cincinnati
Chas. A. Miller - The Texas Company
John J. Phair - University of Cincinnati
A. O. Seeler - Harvard University
H. G. S. van Raalte - Shell
H. R. Warrick - The Texas Company

API STAFF

D. V. Stroop

Total in Attendance - 44

MEMBERS ABSENT

Theodore E. Allen	L. E. Curtis	Robert Bell Lynn
Wm. Crookshank	D. M. English	R. C. Page
	W. R. Levis	

ASSOCIATES ABSENT

W. R. Argyle
L. C. Beard, Jr.
J. S. Boylan
C. R. Brown

J. B. DeLaune
R. S. Driver
H. G. M. Fischer
N. J. Gothard
E. W. Isom

D. W. Larmer
C. R. McKay
R. B. Roaper
H. D. Wilde

.....

I

MINUTES OF TENTH MEETING

Action The Minutes of the Tenth Meeting, held November 11, 1949, were approved as circularized.

II

REPORT OF SUBCOMMITTEE ON CARCINOGENICITY - DR. McIVER WOODY, CHAIRMAN

The Subcommittee on Carcinogenicity submitted progress reports (copies of which are attached hereto as Appendix A).

The Committee discussed but deferred action on this report.

III

REPORT OF SUBCOMMITTEE ON FLUORIDES - DR. A. E. HOAG, CHAIRMAN

Dr. Hoag reported progress. He submitted a report from the Kettering Laboratory (copy of which is attached hereto as Appendix B).

IV

REPORT OF SUBCOMMITTEE ON CUTTING FLUIDS - DR. B. B. REEVE, CHAIRMAN

The Subcommittee on Cutting Fluids made a report (copy of which is attached hereto as Appendix C) and recommended that this material be made available to members and associates of the API Medical Advisory Committee and on request to representatives of contributors to the Medical Research Fund and to members of Institute committees which are interested in the subject.

Action The Committee voted to make the report available in this manner.

V

REPORT OF SUBCOMMITTEE ON PERMISSIBLE CONCENTRATIONS

DR. V. C. BAIRD, CHAIRMAN

The Subcommittee on Permissible Concentrations submitted a report (Appendix D) and the progress report from Harvard University (Appendix E). As suggested in the report, the problem of petroleum products used in conjunction with economic poisons was presented by Dr. Kehoe and discussed in detail by the Committee.

Action The report of the Subcommittee was accepted and all recommendations were adopted.

VI

REPORT OF SUBCOMMITTEE ON MEDICAL POLICIES AND PRACTICES

DR. L. E. CURTIS, CHAIRMAN

In the absence of Dr. Curtis no report was made for the subcommittee.

VII

FIRST AID AND SAFETY TRAINING COURSE

Mr. Charles A. Miller presented an outline of a proposed first aid and safety training program.

Action The Committee voted that the API Medical Advisory Committee endorses in principle the establishment of an API First Aid and Safety Training program and will cooperate with the Central Committee on Accident Prevention in the establishment of such a program, and, further, that the Chairman is authorized to appoint a subcommittee to work with the Central Committee on Accident Prevention in developing the medical aspects of this program.

VIII

OCULAR EFFECTS OF CUTTING OIL ADDITIVES

Dr. B. B. Reeve presented correspondence on this subject, for the information of the committee (copies were circularized to members on April 26, 1950).

IX

INDUSTRIAL HYGIENE FOUNDATION OF AMERICA

Action The Committee voted to defer action on the question of joining the Industrial Hygiene Foundation.

X

EXECUTIVE SESSION

Report of Subcommittee on Carcinogenicity

Action The Committee voted to accept the report of the Subcommittee on Carcinogenicity in the understanding that the report to be published would not include data on the two hydrocarbons and that prior to publication the revised manuscript would be sent to members of the Committee for review.

Report of Subcommittee on Permissible Concentrations

Action The Committee voted to authorize D. V. Stroop to arrange the details of payment of \$5000 for Professor Drinker's services from July 1, 1950 to June 30, 1951.

Changes In Organization

- Actions
- (1) The Committee accepted the resignation of Dr. Holt from the Editorial Committee and as API representative on the ASA Committee on Allowable Concentration of Toxic Dusts and Gases. The Chairman was empowered to appoint successors to these positions.
 - (2) The Committee voted to establish a subcommittee to study the question of eye problems peculiar to the petroleum industry.
 - (3) The Committee empowered the Chairman to appoint a special subcommittee to report on the advisability of accumulating information and/or carrying on investigations of petroleum solvents used in conjunction with economic poisons.
 - (4) The Committee voted to continue its standing subcommittees on:
 - (1) Medical Policies and Practices.
 - (2) Permissible Concentrations.

XI

TWELFTH MEETING

The Committee voted to hold its twelfth meeting at the Biltmore Hotel, Los Angeles, California, on Friday and Saturday, November 10, and 11, 1950.

NOTE: Subsequently a number of members have requested that the meeting dates should be advanced one day so that the meeting would be held on Thursday and Friday, November 9th and 10th. Members who object to this change are requested to inform D. V. Stroop immediately. In the absence of objections, arrangements will be made to hold the meeting on November 9th and 10th.

XII

ADJOURNMENT

There being no further business to be considered, the meeting was adjourned.

Marshall Clinton, M.D.

Secretary

Approved:

Kieffer Davis, M.D.

Chairman

6/23/50

For Information Only - Not For Publication

APPENDIX A

To Minutes of 11th Meeting of Medical Advisory Committee

REPORT TO THE API MEDICAL ADVISORY COMMITTEE

BY THE SUBCOMMITTEE ON CARCINOGENICITY

Dr. McIver Woody - Chairman

April 23, 1950

On behalf of the Subcommittee on Carcinogenicity, I wish to submit the following report to the Medical Advisory Committee for transmission to the Safety Committee of the Board of Directors of the American Petroleum Institute:

Dr. A. Wesley Horton reported on the progress of the experimental work at the University of Cincinnati. A report summarizing this work was sent to all members and associates of the Medical Advisory Committee on April 11. The report was accepted and approved.

Dr. Horton stated that a report on the dose-response of the two strains of mice to various concentrations of methylcholanthrene would be submitted for publication in the journal "Cancer Research" and that it would be desirable to include in that report the tumor index curves of two typical high-boiling catalytically-cracked oils.

Dr. J. J. Phair described the proposed epidemiological study in the petroleum industry and distributed an outline of the procedures which should be followed. Dr. Phair's report was accepted and approved with the understanding that the word "needed" will be used in place of "required" where it fits the context. (Dr. Phair's amended report is attached as a part of Appendix A).

An exchange of samples, which will be identified only by code numbers, is being worked out with the Institute of Petroleum in England.

It is recommended that the Medical Advisory Committee approve:

1. Publication of the report as described by Dr. Horton in his letter of April 7, 1950 to Mr. D. V. Stroop.
2. The proposed epidemiological study as described by Dr. Phair.