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

ASSOCIATES PRESENT

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

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

ASSOCIATES ABSENT

E. W. Adams	J. B. DeLaune	E. W. Isom
W. R. Argyle	T. E. DeVilliers	C. R. McKay
R. D. Bent	Allan E. Dooley	C. A. Neilson
C. L. Brown	R. S. Driver	W. H. Price
C. R. Brown	N. J. Gothard	R. B. Roaper
L. O. Crockett		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.

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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.

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EXECUTIVE SESSION

THOSE PRESENT

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

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

	Minimum	Maximum
1. University of Cincinnati		
Carginogenicity	$85,000	$100,000
Fluorine Study*	0	2,500
2. Philip Drinker	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 Kehoe 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.

Marshall Clinton, M.D.
Secretary

Approved:
Kieffer Davis, M.D.
Chairman

1-5-51

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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 Kehoe 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 men 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 Kehoe 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.

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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.O.P. #5	June 1949

Tentative Drafts:

Copper Naphthenate	February 1950
Methyl Alcohol	May 1950
*Phenylalphanaphthylamine & Phenylbetanaphthylamine	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.