

PLAINTIFF'S EXHIBIT

API-138

API MEDICAL ADVISORY COMMITTEE
LISTS AND APPOINTMENTS 1949-1959

**AMERICAN
PETROLEUM
INSTITUTE**

LIST OF

**PUBLICATIONS
and MATERIALS**

1961



American Petroleum Institute

1271 Avenue of the Americas

New York, 20 N. Y.

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Unless otherwise indicated requests for Publications and Materials should be mailed to the *Publications Section, American Petroleum Institute, 1271 Avenue of the Americas, New York 20, New York.*

An order for less than \$5.00 should be accompanied by remittance. This will enable the Institute to provide a faster service. API will absorb postage and handling charges at the printed matter rate (third class mail) on orders shipped within the United States. Postage stamps will not be acceptable in payment.

Foreign orders will be billed on pro forma invoice with nominal postage and handling charges. Foreign purchasers should present checks, drafts and money orders payable in U. S. currency.

All cash remittances should include 3% New York City sales tax for orders delivered within the city.

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GENERAL

Proceedings American Petroleum Institute

The Proceedings of the American Petroleum Institute are published annually in 7 separate sections. The various sections will include the addresses and reports presented at the Institute's forums throughout the year; i.e., the annual meeting, divisional mid-year meetings, quarterly lubrication meetings, and especially selected papers at district committee meetings.

Reprints of articles contained within the Proceedings are available from the library. A limited supply is kept on these reprints. Individual reprints requested in large quantities have a special price.

Sections are available for 1956, 1957, 1958, 1959, as follows:

Section I (General)	price \$1.00
Section II (Marketing)	price 1.00
Section III (Refining)	price 1.00
Section IV (Production)	price 1.00
Section V (Transportation)	price 1.00
Section VI (Interdivisional)	price 1.00
Section VII (Finance & Accounting)	price 1.00

Proceedings for the Year 1960 Will Not Be Available In Their Entirety Until September 1961.

Beginning 1919 for annual meeting proceedings, and beginning 1931 for mid-year meeting proceedings, information will be supplied on request.

Books

Outline of Petroleum Industry Accounting

A reference manual on producing, natural gas processing and cycling, pipe line, crude purchasing and storage, refining, tank car, marine, marketing, and administrative accounting. Includes a complete chart of accounts and coding system with explanatory text and a section on alternative methods of accounting. (1954)

Price \$3.00

Editorial Style

(API Publication 3005)

This booklet has been compiled for the benefit of all those engaged in writing, editing, and printing material published by the American Petroleum Institute. (1954)

Price \$1.00

DIVISION OF PRODUCTION

All publications listed herein should be ordered from the API Division of Production, 300 Corrigan Tower Building, Dallas 1, Texas.

Prices of specifications, bulletins, and recommended practices are postpaid to all points in the United States and to foreign countries at the printed matter rate (third-class mail). Foreign prices for other material are indicated.

The following discounts are applicable on quantity purchases of any one specification, bulletin, or recommended practice.

5 to 10 Incl....10%	25 to 99 Incl....20%
11 to 24 Incl....15%	100 to 499 Incl....25%
500 and over....40%	

Specifications, bulletins, and recommended practices of the Division of Production are continually being revised and reissued. Bulletin S2, listing current editions of all Division of Production publications, is available (gratis) from the Dallas office upon request.

Specifications, Bulletins, and Recommended Practices on Oil-Field Equipment

Editions listed supersede previous editions and any supplements thereto. Supplements listed supersede and include all changes given in any previous supplements. Except as otherwise indicated, the size of all publications in this group is 8" x 10½". All are punched to fit standard three-ring binders.

BELTING

Std 1A, Specification for Oil-Field Flat Belting, First Edition, Nov., 1957.

Covers belting, for oil country use, of the following types: leather belting, impregnated stitched cotton fabric belting, solid woven hair belting, solid woven cotton belting, balata belting, rubber belting, and rubber cord belting. Includes also recommended practices for the care and use of flat belting. Price each, \$1.00

Std 1B, Specification for Oil-Field V-Belting, Third Edition, March, 1961.

Covers standard and premium quality V-belts, dimensional and marking requirements on V-belt sheaves, rec-

ommended practices for power application of V-belts, and recommendations on care and use of V-belts. Price each, \$1.00

CABLE DRILLING TOOLS

Std 3, Specification for Cable-Drilling Tools, Twelfth Edition, July, 1959.

Covers dimensional requirements on rope sockets (including swivel sockets) and jars, also threaded connections for these and other cable-drilling tools; also requirements on gaging practice for the connections, including requirements on the thread gages and recommendation for their care and use. Recommended practices for turning the connection threads are included as an appendix. Price each, \$1.00

RP 3, Recommended Practice for Care and Use of Cable-Drilling and Fishing Tools, First Edition, July, 1928 (Reissued Nov., 1952).

Covers transportation, handling, make-up, dressing, and heat treatment of cable tools. Price each, 50¢

DERRICKS AND MASTS

Std 4A, Specification for Steel Derricks, (Including Standard Rigs), Fifteenth Edition, Jan., 1959.

Covers steel derricks, steel substructures, and standard rigs, including stipulations on materials, design features, loadings, and allowable stresses. Recommended practices on the erection, care, and use of steel derricks and on the guying of steel derricks, are included as appendices. Price each, \$1.00

Supplement 1, January, 1960, to the Fifteenth Edition of Std 4A. Free

Std 4B, Specification for Wooden Derricks, Fourteenth Edition, Jan., 1952.

Covers requirements for wooden derricks, including stipulations on materials, design features, loadings, and allowable stresses. Recommendations on safe-load capacities for wooden derricks are included as an appendix. Price each, 50¢

Std 4D, Specification for Portable Masts, Fourth Edition, Jan., 1959.

Covers requirements on guyed and free-standing portable masts, including stipulations on materials, design features, loadings, and allowable stresses. Included also are recommendations on care and use of guyed and free-standing portable masts. Price each, 50¢

TUBULAR GOODS

Std 5A, Specification for Casing, Tubing, and Drill Pipe, Twenty-fourth Edition, January, 1961.

Covers seamless steel drill pipe, and seamless and welded steel, open-hearth iron, and wrought-iron casing and tubing in various grades. Processes of manufacture, chemical and physical requirements, methods of test, and dimensions are included, also thread and gage dimensions, gaging practice, and requirements on couplings and thread protectors. Price each, \$1.50

Bul 5A, Bulletin on Sharp-Thread Casing and Tubing, Third Edition, September, 1955.

Covers dimensional data on obsolete sharp-thread casing and tubing (superseded by API round-form threads).
Price each, \$1.00

Std 5AX, Specification for High-Strength Casing and Tubing (Tentative), First Edition, February, 1960.

Covers high-strength seamless steel casing and tubing; includes casing and non-upset and external-upset tubing. Dimensional requirements on threads and gages, and stipulations on gaging practice also are covered, as well as requirements for couplings and thread protectors.
Price each, \$1.00

Bul 5A2, Bulletin on Thread Compounds, Fourth Edition, September, 1960.

Covers the formulation, process of manufacture, and labeling of two types of thread compounds for high-pressure oil-field service, as developed at the Mellon Institute under API sponsorship. Price each, 50¢

Std 5B, Specification for Inspection of External and Internal Pipe Threads, Third Edition, Sept., 1954.

Covers methods of inspecting internal and external pipe threads and descriptions of instruments for measuring thread elements. Price each, 75¢

RP 5C1, Recommended Practice for Care and Use of Casing, Tubing, and Drill Pipe, Seventh Edition, March, 1959.

Covers use, transportation, storage, handling, and reconditioning of casing, tubing and drill pipe.

Price each, 50¢

Supplement 1, January, 1961, to the Seventh Edition of RP 5C1. Free

Bul 5C2, Bulletin on Performance Properties of Casing and Tubing, Seventh Edition, May, 1957.

Covers collapsing pressures, internal yield pressures, and joint strengths of casing and tubing conforming to Std 5A. Price each, 50¢

Supplement 1, January, 1961, to the Seventh Edition of Bul 5C2. Free

RP 5D, Recommended Practice for Conversion of English to Metric Units as Applicable to API Standards on Tubular Goods, First Edition, February, 1960.

Provides a procedure for the conversion of English units to metric units with sufficient accuracy to assure interchangeability of product. Price each, 50¢

Std 5L, Specification for Line Pipe, Eighteenth Edition, February, 1960.

Covers seamless and welded steel, and welded wrought-iron line pipe in various grades. It includes standard-weight threaded line pipe, and standard-weight, regular-weight, special, extra-strong, and double-extra strong plain-end line pipe. Processes of manufacture, chemical and physical requirements, methods of test, and dimensions are included, also thread and gage dimensions, gaging practice, and requirements on couplings and thread protectors. Price each \$1.50

Supplement 1, January, 1961, to the Eighteenth Edition of Std 5L. Free

Std 5LX, Specification for High-Test Line Pipe, Ninth Edition, February, 1960.

Covers various grades (X42 and higher) of seamless and welded steel line pipe having greater tensile and bursting strengths and subject to more rigorous testing than for pipe manufactured under Std 5L. Processes of manufacture, chemical and physical requirements, methods of test and dimensions are included. Price each 75¢

VALVES, FITTINGS, AND FLANGES

Std 6A, Specification for Threads in Valves, Fittings, and Flanges, Eighth Edition, April, 1960.

Covers dimensions for threads (and gages therefor) in valves, fittings, and flanges intended for use with API tubular products. Price each, 75¢

Std 6B, Specification for Ring-Joint Flanges for Drilling and Production Service, Sixth Edition, April, 1960.

Covers materials, dimensions, and pressure ratings for cast and forged steel flanges for line pipe, casing, and tubing for use in drilling and production well control, repressuring, and cycling service. Price each, 75¢

Supplement 1, March, 1961, to the Sixth Edition of Std 6B. Free

Std 6BX, Specification for Ring-Joint Flanges for Drilling and Production Service for Extreme Pressures, Third Edition, April, 1960.

Covers materials and dimensions for end flanged connections for wellhead equipment intended for use in drilling and production well control, repressuring, and cycling services in pressure ranges up to 15,000-psi working pressure at temperatures not exceeding 250 F.

Price each, 50¢

Std 6C, Specification for Flanged Steel Gate and Plug Valves for Drilling and Production Service, Eleventh Edition, April, 1960.

Covers materials, dimensions, and pressure ratings for drilling-through and flow-line valves. Price each, 75¢

Supplement 1, March, 1961, to the Eleventh Edition of Std 6C. Free

Std 6CM, Specification for Flanged Steel Gate and Plug Valves for Multiple Parallel String Completions in Production Service, First Edition, April, 1960.

Covers flanged steel production flowline valves for multiple completions for production well control, repressuring, and cycling service. Price each, 50¢

Std 6D, Specification for Steel Gate, Plug, and Check Valves for Pipeline Service, Ninth Edition, April, 1960.

Covers materials, dimensions, and pressure ratings for flanged and welding-end pipeline valves.

Price each, 75¢

Supplement 1, March, 1961, to the Ninth Edition of Std 6D. Free

API Std 6E, Specification for Flanged Wellhead and Drilling-Through Equipment, Sixth Edition, April, 1960.

Covers materials, dimensions, and pressure ratings for wellhead fittings. Price each, 75¢

Supplement 1, March, 1961, to the Sixth Edition of Std 6E. Free

ROTARY DRILLING EQUIPMENT

Std 7, Specification for Rotary Drilling Equipment, Sixteenth Edition, April, 1960.

Covers dimensional requirements on drill-stem members (except drill pipe), including threaded connections, gaging practice, and master gages therefor; also dimensional requirements on goose-neck connections, rotary tables, shafting, chain, and slush pumps, also stipulations on rotary hose.

Price each, \$1.50

Supplement 1, March, 1961, to the Sixteenth Edition of Std 7. Free

API Std 7B-11C, Specification for Internal-Combustion Engines and Unit-Type Radiator Coolers for Oil-Field Service, (formerly designated Std 8B), Sixth Edition, Sept., 1953 (Reissued March, 1956).

Covers methods for determining maximum brake horsepower and fuel-consumption rates of internal-combustion bare engines and power units; provides for the manufacturer's maximum-horsepower rating of such equipment for specific service applications; also methods for testing and rating of radiator-type cooling units. Included also are recommended dimensions for reverse gear clutch and engine flywheel connections, exhaust and intake opening connections, and a recommended practice for determining engine output by means of intake-manifold vacuum determinations. Price each, 50¢

RP 7C-11F Recommended Practice for Installation, Maintenance, and Operation of Internal-Combustion Engines (formerly designated RP 8C), Second Edition, May, 1955.

Covers recommendations and information of a general nature pertaining to installation; daily, weekly, and monthly maintenance check-off lists; and operating troubles and their causes for all types of internal-combustion engines in all types of service. A recommended practice for the elimination of fire and explosion hazards in the operation of internal-combustion engines is also included, as an appendix. Price each, 50¢

Std 7D, Specification for Oil-Field Boilers (Previous designation: Std 2), Tenth Edition, Nov., 1949 (Reissued Sept., 1957).

Covers boilers of the locomotive (firebox) type, for oil-field use, including new supplementary rating method.

Price each, 50¢

RP 7E, Recommended Practice for Care and Use of Oil-Field Boilers (Previous designation: RP 2), Third Edition, March, 1949 (Reissued Sept., 1957).

Covers revised practice for the installation, operation, and care of boilers of the locomotive (firebox type.)

Price each, 50¢

HOISTING TOOLS

Std 8A, Specification for Drilling and Production Hoisting Equipment, Fourth Edition, March, 1961.

Covers material requirements for, and methods of rating and testing certain hoisting equipment used in drilling and production operations. Price each, 50¢

RP 8B, Recommended Practice on Inspection and Maintenance Procedures of Hoisting Tools, First Edition, March, 1961.

Covers recommended methods of inspection and maintenance of drilling and production hoisting tools to help prevent injury to personnel and irreparable damage to equipment. Price each, 50¢

WIRE ROPE

Std 9A, Specification for Wire Rope, Sixteenth Edition, March, 1961.

Covers wire rope of various grades and constructions; also torpedo lines, well-measuring wire, and galvanized wire guy strand. Price each, 75¢

RP 9B, Recommended Practice on Application, Care, and Use of Wire Rope for Oil-Field Service, Third Edition, May, 1957.

Covers sizes and constructions, field care and use, field troubles and their causes, recommended design features of wire rope; and evaluation of rotary drilling lines.

Price each, 75¢

Supplement 2, March, 1960, to the Third Edition of RP 9B. Free

Rotary Drilling Line Service-Record Forms

Price each pad, 75¢

OIL-WELL CEMENTS

Std 10A, Specification for Oil-Well Cements and Cement Additives, Seventh Edition, January, 1960.

Covers chemical and physical requirements, sampling, test methods, packaging, storage, and marking requirements for the six classes of oil-well cements.

Price each, 50¢

Supplement 1, March, 1961, to the Seventh Edition of Std 10A. Free

RP 10B, Recommended Practice for Testing Oil-Well Cements and Cement Additives, Tenth Edition, March, 1961.

Covers test procedures, methods, and equipment used to evaluate and define those physical properties of cements of special importance to the oil and gas industry.

Price each, \$1.00

SPECIAL REPORTS ON OIL-WELL CEMENTS

In the process of formulating and maintaining Std 10A and RP 10B, the responsible committees have conducted investigations which led to the preparation of the special reports listed below. These reports are not supplements to those two publications nor do they convey official API recommendations, but they do contain a quantity of specialized information useful to those closely engaged in the study of oil-well cements.

Report of Cooperative Tests on Thickening Times of Slow-set Oil-well Cements—49 pages, multilithed, Nov. 1953. Price each, \$1.00

Report of Cooperative Tests on Sulfate Resistance of Cements and Additives—55 pages, multilithed, May 1955. Price each, \$1.00

PRODUCTION EQUIPMENT

Std 11A, Specification for Oil-Well Pumps, Seventh Edition, Oct., 1944.

Covers dimensional standards for component parts of oil well reciprocating pumps.

Includes also recommended practice for care and use of oil well pumps. Price each, \$1.50

Supplement 5, April, 1956, to the Seventh Edition of Std 11A.

Covers comprehensive changes for various pump elements. Price each, \$1.00

Std 11AX, Specification for Subsurface Pumps and Fittings, First Edition, March, 1961.

Covers nine basic subsurface rod type pumps in four commonly used bore sizes for use in 2 3/8 in. and 2 7/8 in. tubing. Sufficient dimensional requirements are provided to assure interchangeability of all component parts. Price each, \$1.50

Std 11B, Specification for Sucker Rods, Thirteenth Edition, January, 1960.

Covers dimensional requirements on sucker rods, couplings and sub-couplings; also stipulations on gages, gaging practice, and the use of the API monogram. Price each, \$1.00

RP 11BR, Recommended Practice for Care and Use of Sucker Rods, Second Edition, Jan., 1955.

Covers recommendations on the storage, transportation, and running and pulling of sucker rods.

Furnished gratis with each copy of Std 11-B; separate copies 50 cents each.

Std 11D, Specification for Miscellaneous Production Equipment, Sixth Edition, March, 1960.

Covers polished rods, polished-rod grips, stuffing boxes, pull rods and couplings, and screen-pipe and slotted-pipe openings. Price each, 50¢

Supplement 1, March, 1961, to the Sixth Edition of Std 11D. Free

Std 11E, Specification for Pumping Units, Ninth Edition, March, 1961.

Covers designs and ratings of beam-type pumping-units. Price each, 75¢

RP 11G, Recommended Practice for Installation and Lubrication of Pumping Units, First Edition, June, 1956.

Covers installation of beam-type pumping units and lubrication of pumping-unit reducers. Price each, 50¢

RP 11H, Recommended Practice for Electrical Surface Pumping Equipment, First Edition, Jan., 1959.

Covers information on installation, maintenance, and operation of electrical surface oil-well pumping equipment. Price each, 50¢

RP 11J, Recommended Practice for Placement of Electrical Equipment on Production Leases, First Edition, January, 1961.

Classifies areas on producing leases for safe installation

of electrical equipment under provisions of the National Electrical Code. Price each, 50¢

Note: Std 7B-11C: Specification for Internal-Combustion Engines and Unit-Type Radiator Coolers for Oil-Field Service, and RP 7C-11F: Recommended Practice for Installation, Maintenance, and Operation of Internal-Combustion Engines, are described under rotary drilling equipment publications.

LEASE PRODUCTION VESSELS

Std 12B, Specification for Bolted Production Tanks, Eleventh Edition, May, 1958.

Covers material, design, and erection requirements for vertical, cylindrical, above-ground, bolted steel production tanks in nominal capacities of 100 to 10,000 bbl. (in standard sizes) for oil-field service. It also includes appurtenance requirements. Price each, 75¢

Std 12D, Specification for Large Welded Production Tanks, Seventh Edition, August, 1957.

Covers material, design, fabrication, and erection requirements for vertical, cylindrical, above-ground, welded steel production tanks in nominal capacities of 500 to 3,000 bbl. (in standard sizes) for oil-field service. Price each, 50¢

Std 12E, Specification for Wooden Production Tanks, Sixth Edition, Oct., 1956.

Covers material, design, fabrication, and erection requirements for vertical, cylindrical, above-ground, closed-top, wooden production tanks in nominal capacities of 130 to 1500 bbl. (in standard sizes) for oil-field service. Price each, 50¢

Std 12F, Specification for Small Welded Production Tanks, Fifth Edition, March, 1961.

Covers material, design, and construction requirements for vertical, cylindrical, above-ground, shop-welded, steel production tanks in nominal capacities of 90 to 400 bbl. (in standard sizes up to a maximum diameter of 12 ft.) for oil-field service. Price each, 50¢

Std 12J, Specification for Oil and Gas Separators, Second Edition, March, 1961.

Covers minimum requirements for the design, fabrication, and plant testing of oil-field type oil and gas separators and/or oil-gas-water separators used in the production of oil and/or gas, and usually located at some point on the producing flow-line between the well head and pipeline. Price each, 50¢

Std 12K, Specification for Indirect Type Oil-field Heaters, Second Edition, March, 1961.

Covers minimum requirements for the design, fabrication, and plant testing of oil-field type indirect heaters used in the production of oil and/or gas, and usually located at some point on the producing flow line between the well head and pipeline. Price each, 50¢

Standardization Bulletins

Annual compilations of standardization committee reports: multilithed paper-bound in 8 1/4-in. by 11-in. size. Available for years 1951, 1953, 1954, 1956, 1958, 1959 and 1960. Price each, \$3.00; foreign \$3.50

Drilling and Production Practice Recommended Practices

(Published in 8 by 10½-in. size only)

RP 27, Recommended Practice for Determining Permeability of Porous Media, Third Edition, Sept., 1952 (reissued Aug., 1956).

Covers approved laboratory procedure for permeability measurements including uniform notation and definition of units; a bibliography is included.

Price each, \$1.00

RP 29, Recommended Practice on Standard Field Procedure for Testing Drilling Fluids, Fourth Edition, May, 1957.

Covers determination of density, velocity, sand, hydrogen content, salt content, and shear strength, with sections on filtration and wall-building properties. Also includes a manual covering procedures for laboratory evaluation of drilling-mud materials. Price each, \$1.00

RP 31, Recommended Practice and Standard Form for Electrical Logs, Second Edition, September, 1959.

Provides a uniform log heading and presentation which will assist in reporting adequately and uniformly the data that should accompany each electrical log in order to facilitate the correct interpretation and use of the log.

Price each, 75¢

RP 33, Recommended Practice for Standard Calibration and Form for Nuclear Logs, Second Edition, Sept., 1959.

Presents specifications for the API Nuclear Logging Calibration Facility for establishing standard API Gamma-Ray and API Neutron Units for nuclear logs, and for calibrating logging tools in these units. Also presents a standard nuclear log form and heading. Includes a provision for calibration of nuclear logging tools in standard test pits which are located at the University of Houston.

Price each, \$1.00

RP 34, Standard Hydrocarbon Mud Log Form, First Edition, Nov., 1958.

Price each, 50¢

RP 35, Recommended Practice for Oil-Mapping Symbols, First Edition, April, 1957.

Free

RP 36, Recommended Practice for Determining Productivity Indices, First Edition, June, 1953.

Free

RP 37, Proof-test Procedure for the Evaluation of High-pressure Casing and Tubing Connection Designs, First Edition, Nov., 1958.

Price each, 50¢

RP 38, Recommended Practice for Biological Analysis of Water-flood Injection Waters, First Edition, May, 1959.

Describes a recommended procedure for examination of water for microorganisms, and a procedure for evaluation of chemicals for control of sulfate-reducing bacteria.

Price each, 50¢

RP 39, Recommended Practice for Standard Procedure for the Evaluation of Hydraulic Fracturing Fluids, First Edition, July, 1960.

Presents standard equipment and methods of test for determination of properties of fracturing fluids. Procedure is given in detail for preparation of fluid sample and methods of test for rheological properties, sand suspension, pour point, flash point, solids content, fluid loss,

matrix permeability damage, and compatibility with formation fluids. Hedstrom and Metzner-Reed methods of friction-loss calculation are given in an appendix.

Price each, \$1.00

Fracturing Fluid Test Data Forms.

Pads of 50 sheets of Fracturing Fluid Test Data forms.

\$1.00 per pad

RP 40, Recommended Practice for Core-Analysis Procedure, First Edition, August, 1960.

A guide to the selection of core-analysis methods applicable to specific problems; and, a description of standard or representative analysis procedures, advanced with the objective of promoting comparability of analyses as between different operators and laboratories. Commencing with field core sampling and preservation, the recommended practice presents detailed and illustrated procedures for all of the usual property determinations in conventional, full-diameter, and small-sample core analyses.

Price each, \$2.00

RP 41, Recommended Practice on Standard Procedure for Presenting Performance Data on Hydraulic Fracturing Equipment, First Edition, January, 1961.

Provides a standard procedure for measuring, reporting and certifying the hydraulic horsepower rating of pumping units used in fracturing services. It is applicable to any type of pumping unit regardless of components such as engines, transmission and fracturing pumps.

Price each, 50¢

RING BINDERS

Ring binders (10¼" x 11½" with 1½" rings), that will accommodate Division of Production specifications and recommended practices are \$4.50 each; foreign, \$5.00 each. A 13-page section divider index is \$2.00 per set.

NOTE: One complete set of Production Division specifications and recommended practices requires two binders and one index.

Annual Volumes on Drilling and Production Practice

Annual cloth-bound volumes entitled "Drilling and Production Practice" contain specially selected papers, also a bibliography of all papers, on drilling and production practices, presented at Production Division meetings during the year indicated. The following volumes are available from the Dallas office:

	Price Each:	
	United States	Foreign
1945	\$6.00	\$6.75
1946	6.00	6.75
1947	6.00	6.75
1948	6.00	6.75
1949	6.00	6.75
1950	6.00	6.75
1951	6.00	6.75
1952	6.00	6.75
1953	6.00	6.75
1954	6.00	6.75

(Listing continued on page 14)

1955	6.00	6.75
1956	6.00	6.75
1957	6.00	6.75
1958	6.00	6.75
1959	6.00	6.75

Special Publications

Oil Well Cementing Practices in the United States (1959)

A comprehensive report on oil well cementing practices throughout the United States, including some historical material, and some material on state and federal regulations of cementing. Also includes a complete bibliography on oil well cementing literature from 1824 through 1957.

Price each, \$5.00; foreign, \$5.75

Supplement to Bibliography on Secondary Recovery January 1, 1950 to June 30, 1957, Incl.

Price each, \$2.50; foreign, \$2.75

Finding and Producing Oil, 1939

The book is 8" x 10½", contains 338 pages, 157 illustrations, and 1671 bibliographical references, with lists of trade associations and technical societies, manufacturers, consultants, drilling contractors, etc. The book is divided into sections, containing information on such items as exploration, drilling, production, vocational training, summary of laws, and fundamental research.

Price each, \$3.00; foreign, \$3.50

History of Petroleum Engineering (1961)

This massive publication presents the results of nine years of collection and evaluation of fact regarding the manner in which the concepts, techniques and equipment which are the tools of petroleum engineering came into being and were developed, extended and refined. The volume is devoted to oilwell drilling and production and contains 20 chapters, each authored by an oilman of professional eminence and national reputation: viz., John R. Suman, J. E. Brantly, C. A. Warner, D. V. Carter, Herman Kaveler, Rex Baker, Robt. E. Hardwicke, T. E. Swigart, C. E. Beecher, C. E. Reistle, Jr., Harry Fowler, D. J. Coberly, James A. Lewis, C. A. Warner, C. V. Millikan, Harold Vance, Lloyd Elkins, E. G. Leonardson, James A. Lewis, James A. Clark, C. C. Scharpenberg, and the late E. DeGulver.

While essentially a history of American petroleum engineering, much information on foreign developments is presented. Completely covered are the histories of cable tool and rotary drilling, completion methods; cementing; logging; sampling and testing; production equipment; production techniques and control; reservoir engineering, fluid injection; handling oil and gas in the field; oilfield evaluation; production research; conservation, unitization, and equipment standardization. Evolution of the petroleum engineering departments of numerous companies is recounted and the agencies for training of pioneer and modern petroleum engineers are described. Hard bound; 1100 pages; over 500 illustrations.

Price each, \$10.00; foreign, \$11.00
(Not available until March, 1961.)

Allocation of Oil Production, 1942

Fundamental principles of oil production and recommended factors in the application of those principles to sound proration factors are covered in a book entitled: "Progress Report on Standards of Allocation of Oil Production Within Pools and Among Pools." Contains 8 sections and 4 appendices covering introduction, conclusions, recommendations, principles of conservation, technology of petroleum production, applicable legal principles, allocation within pools and among pools; the bibliographies list more than 200 books and articles. Cloth bound, 6" x 9"; 92 pages.

Price each, \$1.25; foreign, \$1.50

27-Year Index of Papers Sponsored by Division of Production, 1954.

For the first time, all published papers sponsored by the API Division of Production and its predecessor, the Division of Development and Production Engineering, have been indexed in a permanent form. The index lists by author and subject classification papers published in DRILLING AND PRODUCTION PRACTICE, SECTION IV (PRODUCTION BULLETIN), SECTION I (GENERAL) of the API PROCEEDINGS, and certain special volumes, as well as papers sponsored by the Division but published only in the oil-trade press. This index is hard bound in a size and manner corresponding to DRILLING AND PRODUCTION PRACTICE volumes, contains 136 pages and approximately 5,000 separate entries, covering papers through 1953.

Price each, \$1.00; foreign, \$1.25

Bul D6, Selection and Evaluation of Well-Completion Methods, July, 1955.

This 32-page paper-bound bulletin presents findings and recommendations of the Mid-Continent District Study Committee on Completion practices.

The bulletin has three parts. The first deals with completion techniques from the mechanical aspect and consists primarily of 12 charts that set forth the factors that enter into selection of a completion method. The charts provide criteria for and against the selection of alternative methods. Part 2 presents a method, based on pressure-buildup tests, for evaluating completion after the well is on production. Procedures for testing and methods for computing productivity ratios and skin effects are given. Part 3 gives results of 173 pressure-buildup tests. Productivity ratios and skin effects are calculated and correlated with type of formation, permeability, and type of completion.

Price each, \$2.00; foreign, \$2.25

Bul D7, Casing Landing Recommendations (for operations in Southwestern United States), June, 1955.

A 7-page paper-bound publication summarizing data obtained by a questionnaire circulated to the industry in the Southwestern United States by the API Southwestern District Study Committee on Casing Landing Practice. Based on study of the information developed by this questionnaire and data from other sources, a casing landing practice is suggested which, in the opinion of the committee, should afford the greatest amount of protection and service in a high percentage of wells drilled in the Southwestern United States.

Price each, 50¢*

* On quantities under 100. Discount 25% for quantities 100-300; 40% for quantities over 300.

Model Form of Unit Agreement, Second Edition, January, 1961

Model Form of Operating Agreement, Second Edition, January, 1961

Both forms designed for application to a pool-wide unit where development is complete or substantially complete, to provide a common standard of reference for all parties. Price each, 75¢

Report on Problems in Disposal of Radioactive Waste in Deep Wells (1958).

A 31-page paper-bound report of a committee investigation, on a theoretical basis, of the problems to be anticipated in injection of high-level radioactive wastes into deeply buried underground strata. Problems of fluid containment, heat dissipation, corrosion, site selection, well design and operation and economic factors are outlined and possible solutions are advanced.

Price each, \$2.50; foreign, \$3.00

Training Publications

Guide to Training

In loose-leaf form, containing over 250 pages, freely illustrated, in a durable three-ring binder, with index dividers. This is an omnibus of training plans, techniques, and courses, especially prepared or selected by API Training Committees for application in the drilling and production industry. Will be kept continuously up to date by issuance of supplements and revisions.

Price each, \$22.50 (foreign, \$25.00)

Subsurface Salt-Water Disposal (1960).

A handbook for the planning, installation, operation, and maintenance of subsurface disposal systems. Design criteria and formulae are given for gathering systems, treating plants, and injection facilities. Alternative equipment and methods are discussed and illustrated. Economic considerations are presented. Appendices include glossary, bibliography, typical forms for cooperative agreements, and samples of record and report forms. Soft cover, spiral bound, 102 pages, 24 illustrations.

Price each, \$2.50; foreign, \$3.00

Well Testing (1961)

An operating handbook which presents the reasons for well testing and describes the equipment and techniques required, with emphasis on the role of the field production employee. Measurement, sampling and testing problems for both oil and gas wells are covered in detail, as are test preparations, records and reports and economic considerations. Soft cover, spiral bound, 48 pages, 23 illustrations.

Price each, \$2.50; foreign, \$3.00

Corrosion of Oil- and Gas-Well Equipment (1958)

General aspects of corrosion; sweet corrosion; oxygen corrosion; and electrochemical corrosion are thoroughly covered. Methods of evaluation and control measures are described in detail.

Price each, \$2.50; foreign, \$3.00

Primer of Oil and Gas Production

A publication of 71 pages and over 100 illustrations—including photographs and line drawings—written, il-

lustrated, and presented in a simple, easy-to-understand style. The Primer is designed to help orient and train inexperienced oil and gas production personnel; and, because of its nature, the Primer may also find a ready audience as an educational tool among students, oil-industry office forces, and business or other institutions allied with the oil and gas industry.

Price each, \$1.50 (foreign, \$1.75)

Personnel Development Practices

Hard bound, these volumes contain selected papers presented at annual and district meetings; outlines of training courses recently validated and in process of development; outlines of training films; and reports on the activities of the district committees on vocational training and supervisory development.

Price Each:

	United States	Foreign
1954 Edition	\$2.50	\$2.75
1955 Edition	3.00	3.25

Bul T3, Catalog of API-AAODC Vocational Training Courses.

A catalog of training courses applicable to the drilling and producing industry, loose-leaf leatherette-bound, intended for production superintendents and foremen, drilling contractors, and tool pushers. It explains the basic mechanics of cooperative training, followed by pages illustrating and describing the content of each of the API- and AAODC-approved courses currently available. These pages detail the course content, indicate the occupations at which it is aimed, and outline the plan of presentation, training aids, costs, and other salient facts.

Price each, \$1.00

Loan Service on

Training and Orientation Films

The films listed below are loaned without charge to oil and service companies, drilling contractors, petroleum associations and societies, and educational institutions.

Requests stating desired date of showing and promised date of return should be addressed to: Training Administrator, American Petroleum Institute, 300 Corrigan Tower Bldg., Dallas 1, Texas.

Films are shipped prepaid via surface mail (allow 3 days for each 500 miles) and should be returned prepaid by borrower. Advance notice of at least six weeks is advisable. Greater advance notice will help to insure accommodation.

This service is offered only as a convenience to the industry. Except as may be specifically stated in certain films, the Institute takes no position with regard to the merit of any products or practices depicted.

FILMS AVAILABLE

Films marked * are those whose production was sponsored and controlled by the American Petroleum Institute or the American Association of Oilwell Drilling Contractors, or by the two associations jointly.

1. ***Acidizing—16 mm, sound, color, 20 minutes, 1955.**
Purposes of acidizing are explained. A laboratory demonstration is shown to illustrate the theory of acidizing and its application to oil-field conditions. The determination of economic feasibility of acidizing is explained. Scenes show a crew injecting acid in a well. The results that can be expected from a typical acidizing job and a description of safety precautions complete the film.
2. ***Blowout Prevention (Part I: Causes of Blowouts)—16 mm, sound, color, 20 minutes, 1958.**
Describes the function of drilling fluids in well control, calculation of hydrostatic head, and means of detecting incipient blowouts.
3. ***Blowout Prevention (Part II: Prevention of Blowouts)—16 mm, sound, color, 20 minutes, 1958.**
Covers the various types of preventers and assemblies and maintenance and operational procedures necessary for blowout prevention.
4. ***Care and Handling of Sucker-Rod Pumps—16 mm, sound, color, 20 minutes, 1954.**
Based on *API Std 11A: Specification for Oil Well Pumps*. Deals with manufacture and explains approved practices in transportation, storage, handling, installation, and operation of sucker-rod-pumps.
5. ***Care and Use of Wire Rope—16 mm, sound, color, 20 minutes, 1954.**
Based on *API RP 9B: Recommended Practice on Application, Care, and Use of Wire Rope for Oil-field Service*. Covers the manufacture, characteristics, lubrication, handling, installation, and operating practices recommended for wire rope in oil-field usage.
6. ***Casing Perforating—16 mm, sound, color, 22 minutes, 1955.**
Tells of development of gun perforating from its earliest stages to the latest jet perforator. Tests which have gone into perfection of the process are described. Film shows a bullet gun being manufactured and shows, through animation, the explosion of charges and internal parts. Scenes of lowering the gun into the well are combined with safety pointers. Selective perforating and potentialities of perforating are included.
7. ***Cementing Tools and Equipment—16 mm, sound, color, 20 minutes, 1955.**
Companion film to "Cementing Operations." It describes the process of cementing—covering the purposes and construction of centralizers and scratchers, hook-up of cementing trucks, and auxiliary devices such as shoes and packers. Through models and animation it describes the purpose of cementing and of cementing tools.
8. ***Cementing Operations—16 mm, sound, color, 33 minutes, 1955.**
Companion film to "Cementing Tools and Equipment." By combination of straight photography models and animation, it explains the techniques used in such typical cementing operations as the surface string, the protection string, and the oil string, the latter by stage-cementing method. Also included are a squeeze job, side-track-
- ing of a fish in the hole, cementing a liner, and certain remedial cement jobs, including a squeeze repair on primary cementing.
9. ***Drill Stem Testing—16 mm, sound, color, 22 minutes, 1957.**
Covers principal factors involved in the application and operation of the drill-stem test, sub-assemblies of the tool, and data obtained from the test.
10. ***Electrical Well Logging—16 mm, sound, color, 23 minutes, 1956.**
Explains basic principles of electrical logging, field methods used in running logs, and elements of log interpretation.
11. ***Handling and Running Casing—16 mm, sound, color, 30 minutes, 1952.**
Deals with the manufacture, transportation, handling and running of casing, with emphasis on the precision with which casing is made and the corresponding care required to insure good results. (Based on *API RP 5C1: Recommended Practice for Care and Use of Casing, Drill Pipe, and Tubing*.)
12. ***Handling Drill Pipe, Drill Collars, and Tool Joints—16 mm, sound, color, 45 minutes, 1955.**
Presents preferred methods of handling the drill stem in the hole, in the derrick, and on the rack.
13. **Hazardous Helper—16 mm, sound, color, 16 minutes, 1948.**
A story of the danger of catheads used in drilling operations, and the precautions to be taken to make them a safe helper. Designed to encourage safe practices and stimulate interest in the care, maintenance, and operation of this useful drilling-rig helper.
14. **Hydraulic Fracturing—16 mm, sound, color, 20 minutes, 1955.**
The principles of fracturing introduce the film. Explains what the operator needs to know to determine practicability of fracturing. Gives examples from both sides of the fence—some instances where fracturing is desirable, others where it is not. New as well as old wells are discussed. Possible results of fracturing are enumerated.
15. **More Than Magic—16 mm, sound, color, 18 minutes, 1948.**
An unusual story treatment in which a parallel is drawn between the acts of a magician and the job of handling tongs, slips, and elevators on a drilling rig. Constant flashbacks to the magician provide a comparison that shows how preparedness, skill, caution, alertness and teamwork are essential to the success of any performance.
16. **Oil- and Gas-Well Corrosion—16 mm, sound, color, 25 minutes, 1956.**
Explains principles of electrochemical corrosion and the use of organic inhibitors for control. Includes information on tests used to ascertain corrosive conditions in the well, and on tests by which effectiveness of inhibitors is evaluated. Emphasis is on field application of inhibitors to down-the-hole corrosion.

17. *Radioactivity Logging—16 mm, sound, color, 20 minutes, 1955.

Describes various types of radioactivity logs, including alpha, beta, gamma, and neutron. The theory of radioactivity logging is illustrated. Components of the sonde and its operation are shown by a model. Elementary methods of reading logs are included. Benefits derived from logging, including determination of direction and depth of formations over long distances, are shown.

18. *Rotary Drilling Fluids—16 mm, sound, color, 37 minutes, 1954.

Deals with the control and testing of drilling fluids during drilling operations and includes information on the source of materials used in conditioning mud. Emphasis is also placed on crew cooperation in the execution of API-AAODC recommended practices.

19. Thermal Forces—16 mm, sound, color, 26 minutes, 1947.

A simplified presentation of a problem in physics relating to the effect of heat on water in closed containers. It shows how thermal expansion takes place, and points out the increasing danger of these forces in operating equipment. Animated drawings show the reaction of water being heated in closed vessels and the effect of thermal forces as temperature rises.

20. *Water Flooding—16 mm, sound, color, 20 minutes, 1956.

The film emphasizes the history and value of water flooding and covers reservoir characteristics; theory of water drives; types of water systems and plants; economics of water flooding; importance of accurate record keeping; and conventional plant manipulation.

21. Treating Crude Oil Emulsions—16 mm, sound, color, 27 minutes, 1957.

Covers use of heat and chemical compounds in breaking emulsions of crude oil and water.

22. *Vocational Training in the Oil and Gas Industry—16 mm, sound, color, 15 minutes, 1955.

A documentary film which explains the manner in which API and AAODC vocational-training courses are planned, developed, and offered in the oil fields. The role of state vocational-training agencies is explained and information is given to facilitate the organization of intracompany classes for the study of API-AAODC training material.

SUPERVISORY DEVELOPMENT FILMS

23. Just Naturally Different—16 mm, sound, color, 10 minutes, 1954.

This film calls attention to the fact that each employee is an individual with his own background, temperament, and ambitions. The film has been produced in an oil-field setting on the principle that effective supervision requires that individual differences be taken into account by the supervisor.

24. The Winning Team—16 mm, sound, color, 10 minutes, 1955.

Designed for use in a conference to develop recognition of the importance of cooperation among employees. Suggests supervisory techniques which promote cooperation.

25. The Flow Line of Understanding—16 mm, sound, color, 10 minutes, 1956.

The theme is the importance of clear and complete communication among employees and between employees and their supervisors.

SUPERVISORY DEVELOPMENT FILM STRIP

26. *Job Instruction—100 frames (35 mm), color, sound (15-minute disc recording), 1954.

Deals with the four-step method of job instruction—prepare, present, try out, and follow up. May be used as either introduction or summary to a discussion on systematized on-the-job training.

Training Material, Applicable to the Petroleum Industry, Available from Other Sources

NOTE: as these publications are NOT available from the Dallas office, please order direct.

From the:

Petroleum Extension Service
Division of Extension, University of Texas
Austin 12, Texas

(The first seven are API-validated texts; the others were sponsored as detailed below.)

Electricity and Electrified Lease Operation

Part I—Basic Electricity for the Petroleum Industry \$3.00*

Part II—Operation of Electrified and Automatic Leases \$3.00*

B-2 Applied Mathematics 2.00*

Care and Operation of Pumping Engines and Units 2.00*

Treating Oil Field Emulsions 3.00*

Casing Information 1.00*

Field Handling of Natural Gas 3.00*

Vapor and Gravity Control in Crude-oil Production.... 1.50*

Prevention and Control of Blowouts (API-AAODC) 1.50*

Principles of Drilling Mud Control 2.50*

Primer of Oil Well Drilling 1.75*

Primer of Oil Well Service and Workover 1.50*

(The latter three prepared under sponsorship of American Association of Oilwell Drilling Contractors.)

Basic Instrumentation 3.00*

NOTE: For pipeline manuals see listing for the Division of Transportation.

Prepared by, and available from, The PENNSYLVANIA STATE UNIVERSITY, University Park, Pa. (recommended for workers of higher than average scholastic training):

Petroleum Engineering Fundamentals.....\$5.00*

Petroleum and Natural-Gas Production.....	\$6.00*
Natural-Gas Engineering	6.50*
Petroleum Refining Processes	5.50*
Secondary Recovery of Oil.....	6.00*

Published by Division of Vocational Education, UNIVERSITY OF CALIFORNIA, in cooperation with the California State Department of Education.

Address orders to Bureau of Textbooks and Publications, CALIFORNIA STATE DEPARTMENT OF EDUCATION, 712 Capitol Avenue, Sacramento 14, Calif.

Care and Use of Sucker Rods.....\$1.00

Published by and available from the Division of Extension, UNIVERSITY OF OKLAHOMA, Norman, Oklahoma:

Care and Use of Wire Rope	\$1.00
Care and Handling of Sucker-Rod Pumps	1.00
Lubrication of Oil Field Equipment	1.00
Water Flooding	1.50

* Foreign shipments, 25¢ additional.

DIVISION OF REFINING

API Guide for Inspection of Refinery Equipment

The Guide for Inspection of Refinery Equipment will consist of 20 chapters and an appendix. It will cover such subjects as conditions causing deterioration or failures; general preliminary and preparatory work; inspection tools; preparation of equipment for safe entry and work; unfired pressure vessels; heat exchangers, condensers, and cooler boxes; direct-fired boilers and auxiliary equipment; fired heaters and stacks; pumps, compressors, and blowers and their drivers; pipe, valves, and fittings; foundations, structures, and buildings; atmospheric and low-pressure storage tanks; electrical systems; instruments and control equipment; pressure-relieving devices; auxiliary and miscellaneous equipment; etc. It is planned to make each chapter available as it is completed. Following is a brief description of the chapters which are available.

Chapter II, Conditions Causing Deterioration or Failures, 1957

This chapter covers the various conditions which may be the cause of deterioration or failures of pressure vessels such as corrosion, erosion, effects of high temperatures, subnormal temperatures, excessive pressures, overloading, earthquakes and earth settlements, mechanical and wind damage, and faulty material and equipment.

Price each, \$2.00

Chapter III, General Preliminary and Preparatory Work, 1960

This chapter covers scheduling, checking inspection tools and instruments, preliminary work for major inspection, and appendixes on periodic inspection and continuous run-to-run inspection. Price each, \$1.00

Chapter IV, Tools, 1960

This chapter describes and illustrates both homemade and purchasable refinery inspection tools, such as, hammers, calipers, gages, electronic and mechanical devices, and special tools. It also covers the use of tools to solve specific inspection problems. Price each, \$2.00

Chapter VI, Unfired Pressure Vessels, 1958

This guide to the inspection of unfired pressure vessels in refinery service covers common methods and materials of construction; construction standards and inspection in service; reasons for inspection; causes of deterioration (corrosion, erosion, metallurgical changes, mechanical forces, and faulty material or fabrication); frequency and time of inspection; and methods, tools, and limits of inspection. Price each, \$2.00

Chapter VII, Heat Exchangers, Condensers, and Cooler Boxes, 1958

This guide for the inspection of heat exchangers, condensers, and cooler boxes covers the general design of shell and tube bundle exchangers, exposed tube bundles, storage tank heaters, fin-type air-cooled units, pipe coils, extended surface or fin-type tubes, plate-type exchangers; reasons for inspection; causes of deterioration; frequency and time of inspection; preliminary work and tools; methods of inspection; limits of thickness; records and reports. Price each, \$2.00

Chapter VIII, Direct-Fired Boilers and Auxiliary Equipment, 1960

This chapter describes the types of boilers covered, inspection by outside agencies, safety precautions and preparatory work, methods of inspection and limits, methods of repair, and records and reports.

Price each, \$2.00

Chapter IX, Fired Heaters and Stacks, 1958

This guide for the inspection of fired heaters and stacks covers the general design of box-type, vertical, and special heaters and of smoke, flare, and blowdown stacks; reasons for inspection; causes of deterioration; frequency and time of inspection; safety precautions and preparatory work; method of inspecting furnace coils; minimum allowable thickness; methods of inspecting furnace settings, stacks, and other appurtenances; methods of repair; and records and reports.

Price each, \$2.00

Chapter XII, Foundations, Structures, and Buildings, 1959

This chapter covers the inspection of foundations for refinery equipment, mechanical equipment, and structures of various kinds, including buildings. It also covers ladders, stairways, walkways, platforms, structures for supporting and giving access to refinery equipment and buildings.

Price each, \$1.00

Chapter XIII, Inspection of Atmospheric and Low-Pressure Storage Tanks, 1957

This chapter covers the inspection of atmospheric storage tanks which have been designed to operate at pressures from atmospheric through 0.5 psig, and of low-pressure storage tanks which have been designed to operate at pressures above 0.5 psig, through but not over 15 psig. Such details as reasons for inspection, frequency and time of inspection, methods of inspection and of repair, and records are some of the principal items included.

Price each, \$2.00

Chapter XVIII, Protection of Idle Equipment, 1959

This chapter covers the basis and method of protection, procedures for specific equipment.

Price each, \$1.00

Appendix, Inspection of Welding

The objective of this appendix to the Guide is to ascertain that welded joints are of acceptable quality and comply with the requirements of contract or job specifications and with prescribed welding procedure specifications.

Gratis

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API Recommended Practices for Refinery Inspections

Part I, Process Equipment, 1948

This manual covers suggested good practices for the organization of inspection personnel; methods and application of inspection to process equipment; frequency of inspection; equipment requiring inspection; and suggested methods of determining retiring limits for various equipment and parts thereof.

Price each, \$3.00

Part II, Pressure-Relieving Devices, 1949

This manual endeavors to present inspection and servicing procedures for all types of pressure-relieving devices in use throughout the petroleum industry. It includes subject matter on organization; methods of inspection; determination of limits; methods of repair; and records and reports.

Price each, 75¢

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API RP 500, Recommended Practice for Classification of Areas for Electrical Installations in Petroleum Refineries, Second Edition, 1957

This recommended practice is a guide which applies to refinery areas in which flammable vapors and liquids are processed, stored, loaded, unloaded, or otherwise handled. It is intended to serve as a supplement to the National Electrical Code.

Price each, 50¢

API RP 510, Recommended Practice for Inspection, Repair, and Rating of Unfired Pressure Vessels in Service in Petroleum Refineries, First Edition, 1958

This recommended practice covers the inspection, repair, evaluation for continued use, and the methods for computing the maximum allowable working pressure of unfired pressure vessels constructed in accordance with any of the several editions of the former API-ASME Code for Unfired Pressure Vessels, the several editions of Section VIII of the ASME Boiler and Pressure Vessel Code, or other unfired pressure vessel codes based on either of these codes.

Price each, \$1.00

API RP 520, Recommended Practice for the Design and Installation of Pressure-Relieving Systems in Refineries, Part I—Design, Second Edition, 1960

This recommended practice applies to relieving devices and their discharge systems on pressure vessels designed for operating pressures of more than 15 psig. It contains a brief description of pressure-relieving devices and their performance; operational relief requirements; causes of accidental fires outside of vessels; relief requirements for vessel exposure to open fires. Also included are illustrations of safety and relief valves.

Price each, \$1.50

RP 525, Testing Procedure for Pressure-Relieving Devices Discharging Against Variable Back Pressure, First Edition, 1960

Method for conducting tests to determine performance characteristics of a given design of pressure-relieving device required to operate under variable superimposed back-pressure conditions with compressible fluids.

Price each, 50¢

API RP 530, Recommended Practice for Calculation of Heater-Tube Thickness in Petroleum Refineries, First Edition, 1958

This recommended practice sets forth procedures for calculating the wall thickness of heater tubes for service at elevated temperatures in petroleum refineries. It includes definitions of certain design criteria, equations, and a recommended limiting tube-wall thickness dictated solely by practical considerations.

Price each, \$6.00

API RP 540, Recommended Practice for Electrical Installations in Petroleum Refineries, First Edition, 1959

This manual is intended to bring to the attention of those seeking information concerning practices generally accepted in the petroleum industry, important features of

electrical systems, based on generally acceptable electrical design and installation practices which experience has shown result in safe, reliable, efficient, and economical operation of refinery equipment.

Price each, \$2.00

RP 550, Manual on Installation of Refinery Instruments and Control Systems, First Edition, 1960

Intended to cover installation of the more generally used measuring and control instruments and related accessories.

Price each, \$4.00

API Standard 600, Specification for Flanged and Butt-Welding-End Steel Gate and Plug Valves for Refinery Use, Fourth Edition, 1958

This specification covers materials, dimensions, and pressure ratings for the following flanged and butt-welding-end forged- and cast-steel valves for refinery service: rising-stem, outside-screw-and-yoke gate valves, and lubricated and nonlubricated plug valves with two-way coaxial ports, including valves to be fitted with internal body or port liners or applied hard facings on either bodies, ports, plugs, or plug chambers.

Price each, \$1.50

API Standard 601, Specification for Metallic Gaskets for Refinery Piping, Corrugated or Spiral-Wound (Draft), First Edition, 1958

This specification covers dimensions, design, materials, and shipment of double-jacketed corrugated or spiral-wound metallic gaskets for raised face flanges in petroleum refinery piping.

Price each, \$1.00

API Standard 610, Centrifugal Pumps for General Refinery Services, Third Edition, 1960

This specification covers the minimum requirements for centrifugal-type pumps, mechanical shaft seals for use in centrifugal pumps, and vertical process pumps for petroleum products. Also included are directions for preparing pumps for shipment, outline drawings, and other data.

Price each, \$1.50

API Standard 615, Mechanical-Drive Steam Turbines for General Refinery Services, Second Edition, 1961

This specification gives the minimum requirements for general-purpose and special-purpose horizontal, vertical, condensing, or noncondensing mechanical drive steam turbines used in general refinery services, where maximum initial steam conditions do not exceed 850 psig or 750 F and speeds do not exceed 12,000 rpm. Design, materials, inspection and tests, preparation, shipment, erection, drawings and other required data and proposals are covered.

Price each, \$1.50

API Standard 617, Specification for Centrifugal Compressors for General Refinery Services (Tentative), First Edition, 1958

This specification covers the minimum requirements for basic design, materials, inspection, and tests for centrifugal compressors used in refinery services handling air or gas, but excludes machines developing less than 5 psi. It covers motor, steam, or gas turbine and engine-driven compressors, and related lube-oil and shaft-sealing systems, controls, auxiliary equipment, and gear units.

Price each, \$1.50

API Standard 620, Recommended Rules for the Design and Construction of Large, Welded, Low-Pressure Storage Tanks (Tentative), First Edition, 1956, and Addenda, 1958

These rules cover the design and construction of large, welded, field-assembled storage tanks used for petroleum intermediates and finished products operated at a gas pressure of 15 psig and less, down to an internal gas pressure close to atmospheric pressure, which are not now provided for in *API Std 12C: Specification for Welded Oil Storage Tanks*.

Price each, \$2.00

API Standard 630, Tube Dimensions for Fired Heaters, First Edition, 1959

These rules establish standard sizes and lengths of heater tubes recommended for all refinery services.

Price each, 50¢

API Standard 640, Tube Dimensions for Heat Exchangers (Tentative), First Edition, 1959

This standard contains recommended size, thickness, and length of ferrous and nonferrous tubes most commonly used in conventional shell and tube refinery heat exchangers.

Price each, 50¢

API Std 12A, Specification for Oil Storage Tanks with Riveted Shells, Seventh Edition, 1941 (Reissued, 1951)

Covers material, design, fabrication, and erection requirements for vertical, cylindrical, above-ground steel tanks with riveted shells, in nominal capacities of 240 to 255,000 bbl (in standard sizes) for oil storage.

Price each, \$1.00

(apply normal quantity discount rates)

Design drawings for tanks in seven diameters (36, 48, 60, 78, 102, 120, and 144 ft) are available at the following prices (purchase orders should state size of tank):

Dash No.	Title	Blue-prints	Price Each	Septa Transparencies
-1.	Erection Diagram: Shell Bottom and Supports	1.00	\$1.00	\$2.75
-2.	Erection Diagram: Shell Plates and Supports	1.00	1.00	2.75
-3.	Bottom Plate Details	1.00	1.00	2.75
-4.	Shell Details	1.00	1.00	2.75
-5.	Column Details	1.00	1.00	2.75
-6.	Girder Rafter Details	1.00	1.00	2.75
-7.	Roof Details	1.00	1.00	2.75
-8.	Rivet List (Printed)	15 cents each		
	Complete set for one size of tank.....	6.00	6.00	19.00
	Complete sets for seven sizes of tanks..	35.00	35.00	100.00

Appurtenance drawings, applicable to any size of tank, are available at the following prices:

No.	Title	Drawing Size, in.	Blue-prints	Price Each	Septa Transparencies
A-1	20 in. Shell Manhole.....	25 1/4 x 33	1.00	\$1.00	\$2.75
A-2	24 in. Shell Manhole.....	25 1/4 x 33	1.00	1.00	2.75
A-3	Shell Nozzle	17 x 22	1.00	1.00	2.50
A-4	Roof Nozzle	8 1/2 x 11	.50	.50	2.00
A-5	Roof Manhole	8 1/2 x 11	.50	.50	2.00
A-6	Water Draw-off Elbow	17 x 22	1.00	1.00	2.50
A-7	Circumferential Stairway.....	25 1/4 x 33	1.00	1.00	2.75
A-8	Straight Stairway	25 1/4 x 33	1.00	1.00	2.75
	Full set		6.00	6.00	20.00

API Std 12C, Specification for Welded Oil Storage Tanks, Fifteenth Edition, 1958

Covers material, design, fabrication, erection, and testing requirements for vertical, cylindrical, above-ground, closed and open-top, welded steel tanks in various sizes and capacities for oil storage. Price each, \$1.00 (apply normal quantity discount rates)

API RP 12H, Recommended Practice for Installation of New Bottoms in Old Storage Tanks, First Edition, 1957

Covers two alternate methods of replacing the bottoms of old welded or riveted storage tanks. Price each, 50¢

API Manual on Disposal of Refinery Wastes

Vol. I, Waste Water Containing Oil, Sixth Edition, 1959

This volume describes refinery operations which may result in the escape of oil into waste water; typical methods and devices which are used to remove oil from waste water; and the recommended good practice for handling waste water and removing oil. These statements are supported by detailed information to facilitate application of the recommendations contained in this volume. Price each, \$2.00

Large-Scale Nomograms for Vol. I

These are large-scale copies of Fig. 4, 5, 6, and 7 of Vol. I which are illustrations of API Oil-Water Separators for flows between 18 and 300, 100 and 3,000, 1,000 and 15,000 cu ft per min, and length of chamber required for any flow. Price per set, \$1.00

Vol. II, Waste Gases and Particulate Matter, Fifth Edition, 1957

This volume contains ten chapters setting forth information that will assist the refiner to prevent air-borne wastes from offending his neighbors. A general discussion of the most pertinent problems, together with an extensive listing of literature references, are presented. Recommended practices designed to minimize disposal problems, classification sources, and properties of polluting material are also given. Information on air pollution surveys and on the design of smokeless flares is included. The design of removal and disposal systems is discussed. (For information on methods of sampling and testing for air-borne wastes, see Vol. V.) Price each, \$1.50

Vol. III, Chemical Wastes, Fourth Edition, 1960

This fourth edition of Volume III covers properties and sources of chemical wastes; effect of chemical wastes on natural waters; preventive measures, other than treatment, for reducing the amounts of polluting wastes; treating methods, including biological and chemical treatments, stripping, and for phenolic wastes, solvent extraction; and recommended handling procedures for specific refinery wastes. Tables, equipment diagrams, and 192 references are included.

The Process Summaries present, in readily usable form, examples of treatment methods that have actually been used by refiners for handling chemical wastes. These are specific examples of units which are dealt with in more general terms in Volume III. Price each, \$2.00

Vol. IV, Sampling and Analysis of Waste Water

This volume, which consists of 35 methods, deals with the sampling and analysis of effluent water for water-borne wastes. The procedures contained therein have all been laboratory-tested, most of them being the product of cooperative testing of several equivalent procedures. Price each, \$5.00 (including binder)

Vol. V, Sampling and Analysis of Waste Gases and Particulate Matter

This volume, which consists of 21 methods, deals with the sampling and analysis of refinery waste gases and particulate matter. As in the case of Vol. IV, the procedures have been laboratory-tested, most of them being the product of cooperative testing of several equivalent procedures. Price each, \$3.00

Glossary of Terms Used in Petroleum Refining, First Edition, 1953

The Glossary contains definitions for over 2,000 terms used in petroleum refining and processing. It is designed as an up-to-date reference for the student and technical man and those engaged in office work. It is intended to be useful to salesmen and technical representatives. It is most useful to secretaries and stenographers. A special feature is an index in which the stenographic symbols for the Gregg and Pitman systems for each term are given. Price each, \$3.00

100 Case Problems, 1957

These case studies are a compilation of supervisory problems encountered in the petroleum refining industry. They were contributed by members of the Committee on Training, Division of Refining. They represent some of the experiences of supervisors in refining organizations. Price each, \$1.00

Cyclone Dust Collectors, 1955

This is a report on the removal of particulate matter from gaseous wastes. The intent of the report is to enable the engineer to select or design the appropriate cyclone for a given duty. It presents a compilation and a critical evaluation, where possible, of current published information on the subject. Unpublished information was requested of major equipment manufacturers and major users in the petroleum industry, and those data made available were included. Price each, \$3.00

API Abstracts of Refining Literature

This is a weekly bulletin which contains abstracts of articles chosen from over 140 technical journals considered to be most significant to the petroleum industry. These American, English, French, German, and Russian journals come from the fields of chemistry, physics, petroleum, and engineering. The service is available on a subscription basis. Information about the service is obtainable from the Director, Division of Refining.

API Abstracts of Refining Patents

This is a weekly bulletin which contains abstracts of patents considered to be most significant to the petroleum industry. About 5,000 are U. S. patents and about 9,000 are from Australia, Belgium, Canada, France, Germany, Great Britain, Italy, The Netherlands, Union of South Africa, Russia, and Venezuela. The service is available on a subscription basis. Information about the service is obtainable from the Director, Division of Refining.

DIVISION OF MARKETING

GENERAL

Petroleum Marketing—Yesterday and Today (API Publication 1532)

This booklet was issued by the Marketing Division to provide an overall view of the industry's products and the channels through which they are marketed. The booklet was prepared to answer general questions on petroleum marketing from students and teachers as well as from persons associated with the industry.

Subjects covered are (1) the marketers' job, (2) the early days, (3) the years of evolution and growth, (4) the service station, (5) serving commercial transportation, industry and government, (6) integrated and non-integrated marketers, (7) marketing other petroleum products, (8) marketing specialties and petrochemicals, (9) petroleum distributed through complex channels, and (10) the marketers' master—the consumer. 14 pages (1959)

Single copies free; 20 or more copies 15¢ each

DISTRIBUTIVE EDUCATION

Distributive Education Service Station Training Course

This is the joint API Marketing Division—University of Texas Course in Service Station Operation and Selling which is intended for use in Distributive Education classes in training high school and junior college students, as a part of their regular high school and junior college curricula, for careers in the service station business. The course was prepared by the Division of Extension of the University of Texas, Austin, Texas, and was validated by the API Marketing Division's Personnel Development Committee. The Course comprises five manuals as follows: (1) The Modern Service Station, (2) Selling in the Service Station, (3) Principal Products Sold in the Service Station, (4) Housekeeping and Maintenance and (5) Services rendered by Service Stations. In addition to these five manuals, there is an Instructor's Handbook, which contains answers to questions and projects in the student guide-manuals, and a series of reference and supplementary material to the manuals. The course can also be used by oil companies in training their service station dealers and employees, and their dealer salesmen. It can also be used as a self-help, self-study course by persons interested in retail petroleum marketing.

Available at \$8.75 per complete course as follows:
For Schools and Educators:

University of Texas
Division of Extension
Austin, Texas

For Petroleum Marketers:

American Petroleum Institute
Division of Marketing
1271 Avenue of the Americas
New York 20, N. Y.

Petroleum Marketing: A Field With a Future (API Publ. 1526)

This is the API distributive education guidance brochure designed to assist high school distributive education teachers and guidance counselors in advising their students on career opportunities in petroleum marketing. The brochure is directed to boys who are considering, or who have decided to enter the high school Distributive Education program.

It is designed solely as a counseling booklet for boys who are thinking of entering a distributive occupation but have not yet decided on their field of training.

The booklet was prepared by the Division's Personnel Development Committee in cooperation with many well-known Distributive Education teachers and coordinators throughout the country. Printed in two colors, black and green. 14 pages. Illustrated with line drawings.

Single copies free; 20 or more copies—17¢ each

FILMSTRIPS

Distributive Education Filmstrip Distributive Education: What It Is—How It Works (API Marketing Filmstrip No. 1)

This filmstrip was prepared by the Division's Personnel Development Committee, for use at company sales meetings by local distributive education teachers as a visual aid in explaining how the distributive education program works.

The purpose of the filmstrip is to acquaint oil marketers with the operation of this part-work, part-study program which is available in many public schools to train young men for careers in petroleum marketing. The filmstrip gives oil marketers the necessary background to work effectively with educators as they participate locally in this program.

Can also be used before sales meetings of jobbers and dealers and at meetings of state jobber and dealer associations. After initial use as above, filmstrips can be given to DE teachers and supervisors as a gift for their extended use. 20 frames in color. Requires 23 to 25 minutes for presentation. Comes with two scripts, one for general audiences and another for oil-marketer personnel audience use. (1958)

\$5.00 per copy

Discounts on bulk orders

Motor Oil Filmstrip Kit (API Marketing Filmstrip 2)

Based on the Division's two best-selling motor oil booklets, "Know Your Motor Oil" and "How to Sell Motor Oil," the kit contains one copy each of two color filmstrips; an accompanying double-faced record giving the narration for each filmstrip; a meeting leader's guide and one copy each of the Division's two motor oil booklets.

The first filmstrip entitled *Know Your Motor Oil* gives a summary of the best industry information on quality motor oil and proper oil change practice. The filmstrip supplements product and sales training information provided by individual motor oil suppliers.

The second filmstrip entitled *How to Sell Motor Oil* highlights proved techniques for selling motor oil. Intended to help boost oil sales, the filmstrip gives the serv-

ice station dealer and his employees tested methods for increasing their motor oil-to-gasoline rates.

Know Your Motor Oil filmstrip runs 14½ minutes, 85 frames; *How to Sell Motor Oil* filmstrip runs 17½ minutes, 102 frames. \$30 per complete kit;

Discounts on orders for more than 20 kits.

MARKETING RESEARCH

Attitudes of New Car Dealers Towards Oil Change and Lubrication

This study, conducted by Crossley, S-D Surveys Inc., provides information on (1) the importance of service and oil change business to the economic health of the new-car dealer, in dollars received, as a traffic builder and as a source for new car sales prospects; (2) importance of long oil-change interval recommendation as a factor in selling new cars, (3) dealers' recommendation for crankcase oil changes, (4) dealers' desire for a uniform oil change interval recommendation by both the automotive and petroleum industries, and (5) the importance of chassis lubrication to the dealer. The survey was conducted using personal interviews on a random sample basis in February 1959 and covered 1,953 new car franchised dealers throughout the country. 35 pages. (1959)

\$2.75 for oil marketers
\$5.00 for all others

Urban Consumer Expenditures for Transportation (API Publication 1516)

This study is designed to answer such questions as: (a) how much do families spend for gasoline, motor oil, and tires, batteries, and accessories; and (b) what percentage of family income do these expenditures represent; (c) what is the ratio of expenditures for gasoline to expenditures for motor oil; (d) what percentage of families own two cars; and (e) what is the difference in mileage driven by one-car vs. two-car families. The study, prepared by the API Marketing Division, is based on data from more than 16,000 interviews in 91 cities conducted in 1950 by the Bureau of Labor Statistics in revising its Consumer Price Index. 65 pages; illustrated with charts and graphs. (1955).

\$2.50 for API members and employees of companies contributing to API; \$5.00 for all others.

Oil Change Practices and Lubrication: Trends in Consumer Purchasing Habits, 1955 to 1957

(API Publication 1534)

This publication is based on a series of questions on oil changes and lubrication which the API Marketing Division had included in the 1957 Look Magazine and the 1955 Crowell-Collier automotive surveys. More than 9,000 motorists throughout the country were interviewed in the two surveys. The study provides information on changes in consumer purchasing habits for oil changes and lubrication during the two-year period 1955-57, broken down by (1) income groups, (2) customer age groups, (3) year model of car, (4) car bought new or used, (5) city size and (6) geographic regions. 8 pages (1959).

50¢ per copy;
discounts on bulk orders.

MOTOR OIL

Know Your Motor Oil (API Publication 1507A)

This booklet gives service station dealers and attendants practical product information on motor oils in on-the-job sales training. It can also be used to convince customers both of the high quality of present-day motor oils and of the need for frequent crankcase oil drains. "Know Your Motor Oil" explains in everyday, non-technical terms such important topics as: (1) the functions of motor oil; (2) the enemies of engine performance overcome by quality motor oils; (3) the contaminants which eventually spoil motor oils; (4) the SAE viscosity numbers; (5) motor oil additives; (6) the API engine service classifications to guide the choice of crankcase oils; and (7) the new API crankcase oil drain recommendations of "In winter—every 30 days, in summer—every 60 days, but never exceed 2,000 miles." Fully illustrated in two colors; 24 pages (1959).

25¢ per copy; discounts on
orders for over 100 copies.

How to Sell Motor Oil (API Publication 1508A)

This booklet is a practical guide to effective motor oil merchandising. This sales manual is written from the point of view of an experienced service station dealer and illustrates proven techniques for increasing the ratio of motor oil to gasoline sales. Also included is a section listing the most frequent customer objections to buying motor oil and sales "clinchers" a service station dealer can use to overcome these objections. Many illustrations in "how-to-do-it" style in two colors; 16 pages (1959).

25¢ per copy; discounts on
orders for over 100 copies.

LUBRICATION

Classification of Internal Combustion Engine Service to Guide the Choice of Crankcase Oils

(API Publication 1509A)

This publication describes the API engine service classification system for designating motor oils by refiners, blenders, compounders and marketers as suitable for various types of engine operating conditions. It recognizes that the satisfactory performance of internal combustion engines is dependent on suitable combination of (1) engine design and construction, (2) fuel, (3) operating conditions, (4) lubricating oil, and (5) maintenance practices.

The booklet gives the definitions and brief explanations of the API classifications of Services ML-MM-MS for gasoline automotive type engines and Services DG-DM-DS for diesel automotive type engines. It also gives a brief discussion of the use of the letter designations. 6 pages (1960)

25¢ per copy;
discounts on bulk orders.

Buy On Performance (API Publication 1535)

The purpose of this booklet, published by the Division's Lubrication Committee, is to educate consumers on the problems of specification buying of motor oils and lubricants and to urge them to "buy on performance," by

brand, rather than on specification. Publication provides criteria for use by the consumer to judge the value of a lubricant in service based on (a) production costs, (b) maintenance costs, (c) power and (d) cost of the lubricant. 6 pages (1959) Single copies free; 10 or more copies, 10¢ each.

INDUSTRIAL DERMATITIS

Good Plant Practice for Workers Using Petroleum Products (API Publication 1531)

This publication was prepared by the Industrial Hygiene Foundation of America and is designed for distribution by oil companies to their customers for cutting oils and other industrial petroleum products. The purpose of the booklet is to provide a guide to management in plants using these products to help their workers avoid conditions which might lead to industrial dermatitis. It discusses in general terms the causes and particularly the methods of prevention of skin disorders which may result from inadequate hygienic measures and prolonged exposure to industrial petroleum products. It also provides information on the types of cutting oils, action of cutting oils on the skin, managements' responsibility for the prevention of cutting oil dermatitis and medical considerations. 6 pages (1959). 18¢ per copy; discounts on bulk orders.

Prevent Adverse Skin Effects

(API Publication 1531—Wall Chart)

This attractive wall card is designed as a companion piece to API Publication 1531, *Good Plant Practice for Workers Using Petroleum Products*. Prepared by the Industrial Hygiene Foundation of America, Inc., the wall card is designed for distribution by oil companies to their customers for cutting oils and other industrial petroleum products. The cards contain a series of DO'S and DON'TS to guide workers in proper industrial hygiene to avoid adverse skin effects and should be posted at eye-level opposite, or near every position where a worker uses petroleum products as a part of his job and which might result in dermatitis. 8½" x 11", heavy card stock. Varnished, hole punched at top. Printed in two colors, black and red. 15¢ per copy; discounts on bulk orders.

Dermatitis in Industry: A Pilot Study with Reference to Oils As A Causative Factor

This is a reprint of an article which appeared in the American Medical Association "Archives of Industrial Health" in April 1958. Written by Dra. Braun and Sitgreaves of the Industrial Hygiene Foundation of America, the article gives complete details on a pilot study of the incidence and causes of industrial dermatitis broken down by industry, geographic area, size of the plant, quality of medical records and type of plant medical service, and sex. Conclusion of the study is that slightly less than half of the occupational dermatitis cases reported were caused by petroleum products, the incidence being 0.3% for all employees in all industrial categories, and

0.5% for production workers. Article is reprinted in attractive booklet suitable for presentation to medical practitioners, health and safety departments, and management personnel of the industry's customers for cutting oils and other petroleum products. (1958)

13 pages. Charts and tables. 50¢ per copy

ACCOUNTING

Business Tools for Service Station Dealers:

Ideas for Record-Keeping (API Publication 1510)

This manual on service station record-keeping and accounting is intended to bring good business records and sound money control within reach of every gasoline retailer. It is written in short, simple sentences which put a premium on clarity of meaning and ease of reading. The material is arranged to help the dealer decide which records he needs to give him the information he wants for proper control of his business. The manual, for example, suggests the kind of records that the dealer can keep to obtain easily and quickly the information he needs to prepare his income and other tax returns. The manual is "dressed up" with attractive line drawings and printed in two colors for eye appeal and pleasant reading. Sample entries are shown on each of the recommended forms for easy understanding of the text. Also included is information on how to purchase a supply of the recommended forms. 40 pages (1956).

50¢ each; discounts on orders for more than 100 copies.

A System of Accounting for Distributors and Jobbers of Petroleum Products

(API Publication 1504, Second Edition)

This simplified API Accounting manual for oil marketers was first published in 1953 to assist jobbers, distributors, commission wholesalers and large and small oil marketers, whether or not they have professional accountants on their staffs, to maintain adequate business records. A complete and authoritative manual, this publication has been endorsed in the past by several jobber and oil marketer associations. This booklet is printed in an easy-to-read format, contains sample forms and provides information on analysis of financial records to guide business management. 68 pages (1959).

\$2.75 per copy; discounts on bulk orders.

MANAGEMENT INSTITUTES

How to Plan and Organize Management Institute Programs for Oil Marketers (API Publ. 1527)

This API handbook is designed for education committees, officers and executive secretaries of oil jobber and dealer associations, and presents a basic how-to-do-it procedure for organizing successful oil marketer management institutes on a local basis.

In two parts, the booklet presents first an overall view of the planning of a management institute, and second, how to work out the details. Chapters cover (1) requirements

for a successful management institute program, (2) how to plan effectively, (3) setting the pattern for the program, (4) how to select subjects and discussion leaders for the program, (5) how to finance the management institute, and (6) how to promote attendance and publicize the management institute program.

Handbook also contains a checklist of promotional and publicity activities and sources of additional information about management institutes. 68 pages.

Available free to associations
as long as supply lasts.

Mr. Discussion Leader (API Publication 1538)

This publication is designed as a "briefing" or introduction piece to jobber management institutes for oil marketer personnel who have been asked to serve as a discussion leader at one of these sessions. It contains a brief summary for the discussion leader about (1) "who are you working with," (2) "what do they want to learn," (3) "how can you best present your material to them," and (4) "how can you get them to participate." 6 page folder.

Free to 19 copies;
20 copies or over, 5¢ each

SERVICE STATION ZONING

The Place of the Service Station in the Community (API Publication 1522)

The purpose of this booklet is to outline the API Marketing Division's policy on service station zoning and to present the service station business in its proper perspective as an asset to the community. The booklet points out that (1) the modern service station is a neighborhood convenience, (2) that it is not a fire hazard nor a traffic hazard, (3) that the modern service station is quiet and well-ordered, and (4) that it is an asset for the retail neighborhood. The booklet is handsomely illustrated with photographs and attractively printed in two colors. The booklet also contains the complete text of the API Marketing Division's policy on service station zoning, based on the premise that service stations should be allowed the same privileges and given the same burdens—no more, no less—as any other retail business. (1957)

35¢ per copy;
discounts on bulk orders.

TERMINOLOGY

A Standard Terminology and Classification for Gasoline and Heating Oil Marketers (API Publication 1511A)

This booklet is a revision of a standard terminology and classification for gasoline marketers which was published in 1956. The terminology has been expanded to include a comprehensive listing of heating oil as well as gasoline marketers. Classification is based on three points: (1) marketing functions performed, (2) brand identification, and (3) payment for the functions performed where appropriate. Booklet also provides two handy cross reference charts showing (1) standard terminology, and (2) functions performed by each of the types of marketer listed under the standard terminology. 23 pages (1959)

Single copies free;
20 or more copies, 20¢ each.

OPERATIONS & ENGINEERING

Regulations and Ordinances Applying to Petroleum Marketing Facilities: A Statement of Basic Principles (API Publication 1600)

This publication outlines basic policy of the API Marketing Division regarding regulations and ordinances applying to petroleum marketing facilities and petroleum distribution. Points covered are: (1) tank vehicle capacity, (2) hours of, and weekend delivery, (3) tank vehicle routing, (4) service station zoning, layout and curb costs, (5) size of deliveries and underground storage, (6) dispensing nozzles, (7) signs, (8) bulk plants, and (9) drag chains. 4 pages (1959)

Single copies free;
20 or more copies, 5¢ each.

Model Ordinance Regulating Curb Cuts and Approaches to Service Stations (API Publication 1603)

This publication is designed for use at the city, county, locality and state levels in promoting uniform and reasonable regulations and ordinances governing service station curb cuts and approaches. 4 pages (1959)

25¢ per copy;
discounts on bulk orders.

Recommended Practice for Abandonment or Removal of Underground Tanks (API Publication 1604-Tentative)

This publication provides a guide for procedures which may be used for the abandonment, removal, storage, and sale of used underground tanks which have contained gasoline or other flammable liquids. The bulletin outlines procedures for (1) placing tanks "temporarily out of service," (2) abandonment of tanks in place, (3) removal of underground tanks, (4) storage of used tanks, (5) junking, and (6) sale of tanks for reuse. 7 pages (1960)

35¢ per copy;
discounts on bulk orders

A Study of the Value of Coating the Underside of the Bottoms of Vertical Storage Tanks and the Value of Painting the Interior of the Types of Storage Tanks Generally Used in Marketing Operations. (API Publication 1606)

The title of this publication is self-descriptive. Based upon the experience of 21 petroleum marketing organizations, one of which included in its report the experience of 24 foreign affiliates, it summarizes industry experience in overcoming corrosion problems in storage tanks through painting. 11 pages; (1960).

35¢ per copy;
discounts on bulk orders.

A Report on the Use of Plastic Materials for Temporary or Permanent Repairs to Steel Storage Tanks. (API Bulletin 1607-Tentative)

This bulletin points out that the introduction of plastic compounds constitute a major break-through in reducing the cost of small tank repairs and that these same materials have been used for major repairs. This bulletin summarizes industry experience with this type of repair. 11 pages (1960)

25¢ per copy;
discounts on bulk orders.

Driver Selection and Training Guide (API Bulletin 1608)

This bulletin points out that safety in the transportation and handling of flammable liquids by tank truck is of

vital concern to every segment of the petroleum industry. It indicates methods by which the industry, through careful selection and training, can obtain qualified tank truck drivers to handle and transport flammable liquids safely. 24 pages (1960) 35¢ per copy; discounts on bulk orders.

Driver's Handbook (API Publication 1609)

This vest-pocket handbook measures 3½" by 6". It is intended as a practical guide for the drivers of petroleum tank trucks. The handbook includes discussions on public relations, driver attitudes, and care, maintenance and service of motor vehicle equipment. It also covers product knowledge, driving practices, road emergencies, delivery procedure, fire protection, and traffic accidents. 31 pages, stiff cover (1960) 35¢ per copy; discounts on bulk orders.

Recommended Standard for the Base Lay-Out of Single and Single Product Twin Unit Service Station Pumps or Dispensers (API Publication 1610)

This bulletin supersedes API Publication 1601. It provides for the standard location of base hold-down bolt holes, suction stubs and function boxes of service station single and single product, twin unit pumps. Using these standard locations, oil marketers can change or replace gasoline pumps at service stations through the use of these standard bases without the necessity of tearing up service station pump islands and driveways. 4 pages (1960) Single copies free; 20 or more copies, 5¢ each.

Service Station Tankage Guide (API Publication 1611)

This bulletin is intended as a guide for the determination of the type and capacity of gasoline storage facilities at service stations. It is based on current practices and trends determined through a survey of a large segment of the industry. (Expected to be available Feb., 1961) 35¢ per copy; discounts on bulk orders.

AVIATION

The Filtration and Dehydration of Aviation Fuels (API Publication 1501)

This manual is intended as a guide for persons responsible for the final handling of aviation fuels. It deals with the sources of dirt and water, the methods of detection and removal of these impurities, and the maintenance of filtration and dehydration equipment. This manual attempts to impart an appreciation of the sources of contaminants and the methods employed for their detection and removal so that the necessary precautions can be established by persons responsible for specific installations. 12 pages (1960) 75¢ per copy; discounts on bulk orders.

The Installation of Fixed Fuel Handling Equipment at Airports (API Publication 1502, Third Edition)

The purpose of this bulletin is to guide individuals or groups in planning and installing safe and adequate fixed segregated-brand fueling equipment systems at airports. An attempt has been made to describe in this bulletin as many as possible of the types of fixed equipment combinations required to service aircraft with petroleum products. (1958). 50¢ per copy; discounts on bulk orders.

The Storage and Handling of Jet Fuels at Airports (API Publication 1503)

The purpose of this publication is to point out the basic considerations and recommended practices for the safe handling and storage of jet fuels at airports and to serve as a guide for persons responsible for the final delivery of aviation fuels to the ultimate consumers, or for the design and installation of aircraft fuel servicing facilities. The practices suggested for the safe storage and handling of jet fuels at airports are those which will insure the delivery of uncontaminated fuel to the aircraft with a minimum of hazard to personnel and equipment associated with aircraft ground refueling. Among the topics covered are: flammability characteristics of jet fuels during storage and handling; pumping, filtering and settling characteristics of jet fuels; types of jet fuel storage and handling facilities; fire control; segregation and identification of jet fueling systems; fuel tank cleaning and converting equipment between jet fuel and gasoline; safety precautions in the vicinity of fueling facilities and spills; bonding during fueling; and disposal of spilled jet fuel. Illustrated with charts and diagrams. 11 pages (1958). 50¢ per copy; discounts on bulk orders.

Turbine Aircraft Fuel Quality Protection at Airports (Supplement A to API Publication 1503, Third Edition)

This is a first supplement to API Publication 1503, *The Storage and Handling of Jet Fuels at Airports*. The publication points out the sensitivity of turbine aircraft engines and fuel systems to microscopic quantities of water, dirt, solid materials and other contaminants, and urges that utmost care be exercised in the storage and handling of these turbine fuels. The publication covers both facilities and operations, points the sources of contamination and presents procedures for storage, handling and testing of turbine aircraft fuels to minimize dangers of fuel contamination and to help insure fuel quality protection. 8 pages (1959) 50¢ per copy; discounts on bulk orders.

Airport Fueling Systems (API Publication 1505)

This publication is intended to counteract an increasing tendency on the part of Municipalities, Airport Commissions, Port Authorities, and Airport Consultants toward the design of fuel distribution systems in which the various brands of a given grade of aircraft fuel are commingled. This system of commingling branded aircraft fuels tends to break down brand competition i.e. comparison of performance between brands, oil-company service to the airline and company responsibility for the performance of its products, and the motivation for constant improvement of branded aircraft fuels.

This study was prepared for the purpose of indicating the possibility of economically providing airport fueling systems which segregate the products of each of the various suppliers. Illustrated with fold-up charts and plans. 6 pages (Out of Print—Revised Edition expected to be available March, 1961)

Fueling Turbine-Powered Aircraft (API Publication 1523)

The advent of turbine-powered transports will require the careful re-evaluation of the fueling methods and facilities at many airports. This publication treats with the special problems raised by the advent of these turbine-powered aircraft, and covers such items as (1) fuel

requirements of turbine-powered aircraft, (2) fueling turbine-powered aircraft by trucks (3) and by fixed facilities, including both one-gate and multi-gate hydrant fueling systems, and (4) hydrant system components. The booklet is illustrated with charts and plans of typical turbine fueling installations, and with photographs. 16 pages (1957). \$1.00 per copy, discounts on bulk orders.

Fueling Turbine Powered Aircraft, Supplement A
(Supplement A to API Publication 1523)

This is a first supplement to API Publication 1523, *Fueling Turbine Powered Aircraft*. It provides a description of aircraft fueling systems, and the use of fueling adapters, aircraft wing piping and wing tanks with level control devices. The publication also goes into some detail on prechecking high-level shutoff valves, surge control in aircraft and underground fueling systems. It also covers fueling truck designs and fuel cleanliness protection. The publication is illustrated with a series of charts and photographs and contains diagrams showing fueling rates for the Boeing Model 707-121 and 707-321 and the Douglas DC-8 aircraft. 14 pages (1959).

50¢ per copy;
discounts on bulk orders.

Recommended Performance Requirements for Aviation Fueling Hose
(API Publication 1529)

This short bulletin gives the Marketing Division's Aviation Technical Service Committee recommendations for performance requirements for aviation fueling hose and includes the following: general requirements; couplings; hose nozzles; pumps; structural features; and, by size of hose, bursting pressure and weight per foot. 4 pages (1959). Free

DIVISION OF TRANSPORTATION

1102—Recommended Practice on Form of Agreement and Specifications for Pipe Line Crossings Under Railroad Tracks. Third Edition—1957

This seven page pamphlet presents a sample recommended form of agreement for the guidance of pipe line companies in their negotiations with railroads for constructing, maintaining and removing pipe lines under railroad tracks. Charts showing recommended thicknesses for steel casing pipe as well as for flexible steel conduits under railway crossings are also presented.

Price 25¢

1103—Bulletin on Recommended Practices in the Setting, Connecting, Maintenance and Operation of Lease Tanks. Third Edition—1952

This Bulletin, a guide for the installation and operation of lease tanks when such tanks are used as origin tanks for pipe line shipments, contains recommendations for good practices in the handling of lease tanks which are limited to those which serve jointly (1) the collection of well or lease production, (2) its gauging and (3) its delivery to pipe line carriers for transportation. Prints entitled "Lease Tank Battery Installation" are a part of the Bulletin and illustrate a three-tank battery which exemplifies most of the recommendations stated in the Bulletin.

Price 25¢

1104—Standard for Field Welding of Pipe Lines, Seventh Edition—(expected March 1961)

This specification, intended to apply to cross country pipe lines for the transmission of crude petroleum, petroleum products and natural gas, is aimed at producing the highest quality welds obtainable on a commercial basis by skilled welders using approved welding procedures, materials and equipment. To ensure the proper analysis of welding quality and defects, its purpose is also to produce the highest quality radiographs obtainable by skilled operators using approved technique and equipment. Tables, drawings and details on welding specifications, standards of acceptability and radiographic procedure are included.

Price 50¢

1105—Bulletin on Construction Practices for Oil and Products Pipe Lines. First Edition—1955

This bulletin is in three parts. Part I covers various methods of construction to show why certain specifications and contract clauses are needed. Part II contains sample specifications that may be followed or modified to meet special circumstances. Part III contains sample contract clauses that may be useful in meeting individual requirements and the "general conditions" in Part III cover recommended contract terms that might well be contained in most agreements.

Price \$1.50

1106—Tentative Bulletin on a Classification of Communications Circuits for Use in Automation in the Oil Industry—1959.

This bulletin is intended to serve as a guide to petroleum companies in setting up their own automation circuits, obtaining circuits from common carriers, and specifying circuit requirements to equipment manufacturers. It provides a means for coordination between interested parties in the application and performance of communications channels for telemetering, supervisory control, and other associated functions.

Price 50¢

**Texts Validated by API Committees for Use in Vocational
Education and Published Under Auspices of the
Division of Transportation**

Must be ordered from:
Petroleum Extension Service
Division of Extension, University of Texas
Austin, Texas

**Management Development Programs In The Pipeline
Industry, First Edition, May, 1956**

This manual has been prepared as a guide for the pipeline industry in beginning new training programs or in expanding and gathering information for programs already in existence. Price \$1.50 each

Volume I in the series on Oil Pipe Transportation Practices is out of print.

**Volume II:
Oil Pipe Line Construction and Maintenance
First Edition, February, 1953**

Presents chapters on capacity, design and specifications, construction, materials, maintenance, corrosion control, and fire and accident prevention. Contains 191 pages, 238 illustrations.

\$3.00 postpaid in the U.S. \$3.25 elsewhere

**Volume III:
Oil Pipe Line Measurement and Storage Practices
First Edition, August, 1955**

Contains chapters on tank construction, strapping tanks, tank gauging, tank maintenance, and quantity measurement of liquid petroleum with meters.

\$3.00 postpaid in the U.S. \$3.25 elsewhere

**Volume IV:
Oil Pipe Line Pumping Station Operation, First Edition, March, 1956**

As indicated by the title, it will cover the installation, operation and maintenance of prime movers, pumps and auxiliary equipment found in oil pipe line pumping stations.

While internal combustion engines and reciprocating pumps are covered, emphasis is on the electrified station with automatic controls and centrifugal pumps which characterize the post-war installations.

\$3.00 postpaid in the U.S. \$3.25 elsewhere

COMMITTEE ON PUBLIC AFFAIRS

Orders for items listed in this section should be addressed to the Materials Distribution Section, Committee on Public Affairs of the American Petroleum Institute, 1271 Avenue of the Americas, New York 20, N. Y.

BACKGROUND INFORMATION BULLETINS

#7. Underground Rivers of Oil

By W. C. Kinsolving. A discussion of the various phases of pipeline transportation; statistical information as to the size of the industry, its historical background, its place in the national defense program; economics of pipeline transportation, and its costs compared with those of rail and tankship. \$4.00 per hundred

#8. Petroleum and Economic Progress

By John W. Boatwright. How the petroleum and natural gas industries have contributed to our economic progress, with statistics and charts to illustrate the association between petroleum energy consumption and increased national output. Petroleum progress is described in terms of technical research, product quality, competitive prices, employee compensation, and importance to national defense. \$4.00 per hundred

#9. Oil's Expanding Job Market

A report, with graphs, on the 1954 API survey of employment in the petroleum industry. Documents its record growth in employment, job stability and security, fringe benefits, and safety record. \$4.00 per hundred

#10. You Can't Buy "Gas" Any More

A discussion, reprinted from the Lion Oil News, of the composition of modern gasoline and its improvement. Illustrated with photographs and charts. \$8.00 per hundred

#12. Gasoline Prices in Michigan

A step-by-step analysis of the many factors that add up to what you pay for gasoline. Although the article deals specifically with Michigan, the principles apply equally well in other parts of the United States. \$4.00 per hundred

#13. Land of the Big Risk

One of the best demonstrations to date, by the treasurer of a leading oil company, of how percentage depletion forms an indispensable kingpin in the vital, complex, and risky business of supplying America with oil. \$4.00 per hundred

#14. Research and Development Expenditures and Personnel in the Oil Industry

Results of an API survey. Shows how, and how much, oil companies invest in research and development. \$4.50 per hundred

#15. Air Pollution

Chester F. Smith, former vice president and director of a large oil company, discusses the growing problem of air pollution, and tells what the petroleum industry is doing to discover the cause of "smog," and develop methods for combating it. \$4.80 per hundred

#16. Emergency Oil for Europe

A report by the Middle East Emergency Committee. A full and factual report on the organization and accomplishment of the largest peacetime emergency rescue-supply operation in world history—the "oil-lift" to a Western Europe deprived overnight of vital petroleum supplies by the Suez Canal closure.

\$4.60 per hundred

#17. The Facts About Oil Prices

By Warren L. Baker and Cecil W. Smith. The factors that determine the prices of petroleum products, by two leading analysts of the oil market. What keeps oil America's biggest bargain in comparison with other leading commodities.

\$4.80 per hundred

#19. Regulation of Producers' Natural Gas Prices: Is Anyone Benefiting?

From the Texaco Star, Spring, 1957 issue. The current FPC muddle graphically shows what happens when bureaucracy intrudes on free competition. It makes producing natural gas a discouraging proposition . . . the outlook is grim for consumers.

\$4.80 per hundred

#20. Oil, National Security and the Lessons of Suez

By Herbert Hoover, Jr. The present oil picture in this country as pointed up by these salient questions: How do reserves stand?—Are new pipelines the answer?—What about substitute fuels? Mr. Hoover offers suggested solutions and tells what the oil industry is doing to meet a number of new problems.

\$4.80 per hundred

#21. Reasonable Market Prices for Natural Gas

By John W. Boatwright. A careful analysis, by a noted oil economist, of reasons why he believes any attempt to apply a "cost of service" yardstick to natural gas production and prices cannot succeed.

\$10.00 per hundred

#22. The Robinson-Patman Act and S. 11

A membership referendum by the U.S. Chamber of Commerce during December, 1957 and January, 1958. By a margin of almost 10 to 1, organization members of the United States Chamber of Commerce endorsed the proposition that "Good Faith" in meeting a competitor's price is an absolute defense to a charge of violation of Section 2(A) of the Robinson-Patman Act. Herein is a brief history of the act, and the pros and cons of a proposed amendment to restrict this defense.

\$4.50 per hundred

#24. Oil, Taxes and Progress

By Albert L. Nickerson. Address before a joint meeting of the Chamber of Commerce of Metropolitan St. Louis, and the Oil Men's Club of Greater St. Louis, October 13, 1958. Shows how "a fair provision for the depletion of reserves not only helps the progress of the oil industry and of other mineral-producing industries, but also serves the best interests of the consumer."

\$4.25 per hundred

PERIODICALS

Petroleum Today

An illustrated, four-color magazine, published quarterly, containing articles and features designed to acquaint readers with the petroleum industry's achievements and its problems in supplying the nation's petroleum needs.

Free

Quantities over 3 copies available at cost plus shipping charges.

Oil Facts

A bimonthly publication designed to present and interpret economic trends and developments of current interest and significance to the petroleum industry and to the nation.

Free

Oilman's Calendar

Published four times a year. Contains a listing of future meetings which are of interest to members of the Institute.

Free

Oil Features for Editors

An editorial-service publication for oil company editors, public relations and employee relations personnel. Contains articles, cartoons, illustrations and background material on current problems affecting the petroleum industry. Published quarterly.

Free

Highway Statistical and Financial Data

A compilation of the latest annual data on a state-by-state basis pertaining to taxation for highways. Includes special tabulations on taxation of petroleum of interest to industry. Published bi-monthly.

Free

BOOKS

Petroleum Facts and Figures (Centennial Edition).

This 476-page book replaces all earlier editions. Issued in 1959 in connection with the 100th anniversary of the drilling of the first commercially successful oil well, it provides statistical history of the oil industry in six chapters as follows: Production, Refining, Transportation, Marketing and Utilization, Prices and Taxation, and General Information.

\$4.50 each; Foreign, \$5.25

(There was no 1960 edition of *Petroleum Facts and Figures*. A supplement of the 1959 Centennial edition will be published in late 1961 or in 1962)

The Age of Illumination

First volume of a two-volume history, entitled "The American Petroleum Industry—The Age of Illumination," by Harold F. Williamson and Arnold R. Daum. After a brief preview of Petroleum through the ages, it covers events in the American Petroleum Industry from 1859 through 1899. 864 pp.

\$3.75 each

Note: This book was sponsored by the American Petroleum Institute, but must be ordered directly from:

Northwestern University Press
1840 Sheridan Road
Evanston, Illinois

A Century of Oil and Gas in Books

This descriptive bibliography, prepared with the assistance of a grant from the American Petroleum Institute to help guide those researchers and librarians seeking information on petroleum. More than 2,000 items published in book form, in English, are cited. In addition to giving the title, author, publisher, city and date of publication, and number of pages, each item carries a brief note on the work's content and value. An index is included. \$4.75 each

Note: This book must be ordered directly from:

Appleton-Century-Crofts, Inc.
35 West 32nd Street
New York 1, New York

KIT

The Oil Industry and Air Pollution

A collection of reference material, this kit contains a representative selection of articles, leaflets, advertisements, speeches, reports and statements published or presented by individual oil companies, the American Petroleum Institute, the Western Oil & Gas Association and other groups interested in maintaining purity of the atmosphere. \$2.50 per kit

BOOKLETS

Facts About Oil

32-page, illustrated, two-color booklet, 8½" x 11". Contains statistical data and information on the various phases of the petroleum industry, including origin, exploration, drilling, production, transportation, refining, marketing, supply and demand, uses, and general economics. A valuable reading and reference piece for editors, librarians, "thought leaders," teachers, and others, and for oil-company distribution to employees, stockholders, and others interested in the oil business.

25¢ each

Energy for America—The Story of Oil's First Century

16 pp., 4-color 8" x 10½", picture booklet. Tells in simple terms the dramatic story of petroleum as a source of energy. Of special interest to school children but valuable as a general "handout" piece at meetings and open-house celebrations. \$5.90 per hundred

A Quiz Show for Home Owners

Sprightly "Questions & Answers" format drives home the facts that oil heat is clean, economical, automatic, comfortable, and healthful. Four pages, 4" x 9", illustrated in two colors. \$10.00 per thousand

Searching for Oil

16-page illustrated booklet, 6" x 9", presenting in non-technical language the fascinating story of the exploration

for and production of petroleum. Discusses the financial risks involved, what it takes to drill an oil well, and the proved reserves of petroleum. Excellent for general distribution by oil companies to leaseholders, stockholders, residents adjacent to oil properties, community leaders, customers, and employees. Suitable as a mailing and "handout" piece and for use in answering inquiries. \$5.00 per hundred

Barrel Number One

Eight-page, 6" x 9", four-color, illustrated booklet based on the film of the same title. Portrays the progress of petroleum discovery, production, refining, transportation, and marketing. Suitable not only as a take-home piece at showings of the film but for distribution at employee indoctrination meetings, schools, and various other types of public gatherings. Excellent souvenir for open-house programs, community-leader meetings, service station openings, and other events. \$3.00 per hundred

READING RACK BOOKLETS

Energy, Work and Imagination

A reading rack booklet on the marketing and utilization of oil products, by Leonard M. Fanning. Marketing from the beginning of the oil industry right up to the present. 16 pages, 4½" x 7". \$5.50 per hundred

Prescription for Progress

A reading rack booklet on the epic of oil refining, by Leonard M. Fanning. The search for useful products from oil began in ancient times. Today's refineries are leading the way to petrochemicals. 16 pages, 4½" x 7". \$5.50 per hundred

Oil—Is Where You Find It

A reading rack booklet that presents an informative and easy to read history on the production of oil, from divining rods to the seismograph crew. By Leonard M. Fanning. 16 pages, 4½" x 7". \$5.50 per hundred

Indispensable Lifeline

A reading rack booklet on the oil transportation story, by Leonard M. Fanning. Crude oil and its products are on the move every hour, every day of the year. 16 pages, 4½" x 7". \$5.50 per hundred

CATALOGUE

Movies About Oil

A 24-page catalogue, 8½" x 11", describing motion pictures of general interest about various phases of petroleum and the petroleum industry, with information as to where these films may be purchased or borrowed. Includes films of high public relations value and a minimum amount of commercial content. Free

FILMS

Wildcat! (28 min. Black & White)

Wildcat! is the true story of two brothers and their oil well. Originally filmed for Dave Garroway's *Today* show on television, this 28-minute documentary vividly portrays the great risks taken by those who seek to discover and produce oil. 16-mm only \$75.00 each

Three for Tomorrow (28 min. Kodachrome)

An absorbing story of three young men and their problem in choosing a career in today's business world. The principal character's appraisal of the oil industry, one of three industries he is considering, provides an interesting and dramatic background. A surprise ending is in store when he realizes that the answer to his problem was apparent from the very beginning.

16-mm \$175.00 • 35-mm price on application

A Story of People and Progress (26½ min. Black & White)

This film features six sequences highlighting interesting examples of free enterprise at work in the oil industry. Introduced by John Daly. Suitable for showings at schools, community meetings, and general public audiences. 16-mm only \$75.00 each

Destination Earth (13 min. Technicolor)

An amusing and effective animated cartoon about a Martian in the U.S.A. and the "secrets" he discovered—oil and freedom. 16-mm \$125.00 • 35-mm \$225.00

Barrel Number One (29 min. Black & White)

Documentary on the discovery, production, refining, transportation, and marketing of a barrel of oil. For all audiences. 16-mm \$75.00 • 35-mm \$175.00

Born In Freedom . . . The Story of Colonel Drake (29 min. Technicolor)

A top-quality historical photoplay on the birth of the American petroleum industry with the first successful well drilled for oil. For audiences of all types and ages. A Freedoms Foundation award winner.

16-mm \$225.00 • 35-mm price on application

American Frontier (29 min. Black & White)

Dramatic documentary of drilling for oil in the Williston Basin, illustrating what the discovery of oil has meant to the people of that section and to the nation. Popular with all audiences, including schools.

16-mm \$75.00 • 35-mm \$175.00

Crossroads, USA (25 min. Black & White)

Incident at a service station marks the turning point in a young man's life. Film emphasizes opportunities for youth in the highly competitive oil industry. Freedoms Foundation award winner.

16-mm \$75.00 • 35-mm \$175.00

Man on the Land (16 min.)

Animated cartoon on petroleum's part in the transition from man power to machine power. Educational and amusing for audiences of all ages. Freedoms Foundation award winner.

Kodachrome 16-mm \$100.00

Technicolor 35-mm \$185.00

Twenty-Four Hours of Progress (28 min. Black & White)

Follows the petroleum industry around the clock and across the country, showing its contributions to our daily life. Suitable for all groups. Freedoms Foundation award winner. 16-mm \$75.00 • 35-mm \$175.00

It Never Rains Oil (15 min. Technicolor)

Animated, amusing cartoon that makes percentage depletion easily understood. Orders placed through API offices, but shipped and billed by E. I. du Pont de Nemours & Co., Inc., producer of the film.

16-mm \$75.00 • 35-mm \$200.00

Progress Parade Series (13½ min. Black & White)

A series of true dramatic sequences showing the oil industry at work. Prepared for use on free time TV, they are also suitable for employees, dealers, and general audiences. 16-mm \$25.00 per print

SCHOOL PROGRAM MATERIAL

(Designed especially for use in secondary schools and distributed free to those schools on request, through local oilmen. Sold to oil companies for nonconflicting uses, such as distribution to employees or to answer requests for this specific type of information).

Facts About Oil—A Handbook for Teachers

A handbook of information on the history of the oil industry; the origin of petroleum; exploration and drilling for oil; the production and transportation of oil; refining; marketing of petroleum products; supply and demand; uses of products, and the economics of the industry. 25¢ each

Teacher's Resource Reference

A 12-page booklet containing a list of available teaching materials, a bibliography of books about the petroleum industry of general interest to junior and senior high school students and teachers, and a description of other resources on the petroleum industry. 10¢ each

CLASSROOM AIDS

Maps: The Western Hemisphere and The World

Four-color maps, 34 by 44 inches. They depict the major geographical features of the earth, including the marine sedimentary basins, and the major oil and gas producing areas. Smaller key maps show petroleum production and consumption in leading countries and regions. Suggested classroom uses are printed on the envelopes which hold the maps. 30¢ each map

Chart: Science in the Search for Oil

Four colors, 34 by 44 inches. Illustrates the formation of oil during four geologic periods. Panels on the lower half of the chart show scientists exploring for oil, using the gravimeter, aerial photography, and seismograph recording; the drilling equipment which actually seeks the oil, and a scale drawing of a well one mile deep. A teacher's guide is provided with each chart. 30¢ each

Chart: Transportation Since 1775

Four colors, 34 by 44 inches, portrays the history of transportation on land, by rail, on water, and in the air. It shows that Drake's oil well, brought in at Titusville, Pennsylvania, in 1859, was the forerunner of an industry whose products eventually provided new energy sources for railroads and ships, and led to the development of the automobile and the airplane.

The lower portion of the chart tells the story of the transportation of petroleum itself, showing old and modern means of moving oil by pipeline, tank ship, truck transport, and railway tank car. Suggested uses are printed on the envelope which holds the chart. **30¢ each**

Chart: Distillation

A two-color chart 22 by 34 inches which shows the simple and complex processes of distillation as they are carried out in the chemistry laboratory and in the petroleum refinery. Suggested classroom uses are printed on the envelope which holds the chart. **15¢ each**

Chart: Chemistry of Petroleum Refining

A two-color chart 22 by 34 inches. The upper half shows the flow of crude oil and products through the numerous processes used in a modern refinery. The lower half shows typical chemical reactions involved in six of the principal processes. Suggested classroom uses are printed on the envelope which holds the chart. **15¢ each**

STUDENT BOOKLETS

There's a Place for You in the Oil Industry

Describes a wide variety of oil jobs for which students may qualify, and offers suggestions as to personal qualifications and elementary skills required. **6¢ each**

Petroleum in Our Age of Science

Covers geology and nature of oil, early discovery and uses, how oil is located and produced, principal products and how they are made. **6¢ each**

The Chemistry of Petroleum

Describes and explains the major chemical processes used in the industry. The introductory section deals with the principles of hydrocarbon chemistry. The sections which follow explain in some detail the processes of petroleum refining, fractional distillation, catalysis, cracking, polymerization, isomerization, reforming, hydrogenation, and alkylation. **6¢ each**

EXHIBIT MATERIALS

Model Drilling Rig and Cut-Away Earth Strata Base

Authentic model, of metal and wood, constructed to scale ($\frac{1}{4}$ " to the foot), 30" high, weighs less than 15 pounds. Complete with motor. Four lights illuminate the display.

Base is in seven colors, 31" x 14 $\frac{1}{2}$ " x 17 $\frac{1}{2}$ ". Lighted. Weighs less than 10 pounds. Shows the different types of traps, strata, and other underground formations, including a salt dome. The drill pipe actually turns as it "drills" downward.

Combined rig and base may be used in exhibits, displays, training programs, and for many other purposes. Prices do not include packing for export, special motors, or other expenses incidental to foreign shipment. These are billed at cost.

Rig \$170.00 each • Base \$145.00 each
Carrying case for rig only \$22.00 each

DEMONSTRATION MATERIALS

A Briefcase for Business

This highly effective yet compact demonstration contains up-to-the-minute information on the very latest oil-derived products. This kit holds enough materials for an exciting and fast-moving 30-minute presentation. Prepared like the Magic Barrel and Magic Suitcase, by E. I. du Pont de Nemours and Co., Inc., it may be purchased through API offices for shipment and billing by Du Pont. Or a free demonstration may be arranged through API offices. **\$50.00 each**

DEPARTMENT OF TECHNICAL SERVICES

Fundamental Research

Fundamental Research on the Occurrence and Recovery of Petroleum

One of the fundamental research activities of the API relates to the occurrence and recovery of petroleum. Every two years a volume is published reviewing, for that period, the activities of the fundamental research projects. In addition, articles which have a direct bearing on the research activities during this period are reproduced. A bibliography of all the articles published and a supplemental list of publications which had a bearing on the research investigation, but not produced as a result of the project's efforts, are included.

1943	\$3.50
1944-45	\$3.50
1946-47	\$5.00
1948-49 (API Members, \$3.60)	\$6.00
1950-51 (API Members, \$3.60)	\$6.00
1952-53 (API Members, \$6.00)	\$10.00
1954-55 (API Members, \$7.20)	\$12.00

Microscopic Behavior of Fluids in Porous Systems, 1957

This 12 page report presents some of the significant developments of the six years of research completed by Project 47b, located at the University of Oklahoma, Norman, Oklahoma. The development of extensive photographic data on mechanisms of fluid flow is evidenced by the inclusion of six pages of color pictures and additional diagrams. Covered in this report are such points as: microscopic movement of immiscible fluids through porous bodies, microscopic distribution of fluid in the pore spaces, simultaneous flow of immiscible fluids and surface forces and flow forces. Price, 1.50

Some Properties of the Lighter Hydrocarbons, Hydrogen Sulfide, and Carbon Dioxide, 1955

This volume presents the work done by Research Project 37 at California Institute of Technology, Pasadena, California, under the directorship of Dr. William N. Lacey and Dr. Bruce H. Sage from 1947 to 1953. The measurements involve the effect of pressure and temperature on the molal volumes of several of the lighter hydrocarbons, hydrogen sulfide, carbon dioxide, and mixtures of these compounds.

Price (API Members, \$6.00)....\$10.00

Equations of State for Hydrocarbons, 1959

The volume listed above presents further work of API Research Project 37 at the California Institute of Technology under the direction of Dr. B. H. Sage. A review of the development of equations of state is accompanied by a complete discussion of notable achievements which have occurred during recent years in the prediction of volumetric behavior.

Price (API Members, \$7.80) ... \$13.00

Synthesis of Hydrocarbons in the Gasoline Range, 1953

API Research Project 45, Synthesis, Purification and Properties of Hydrocarbons of Low Molecular Weight, is located at Ohio State University in Columbus, Ohio. Scientific papers concerning: synthesis, purification and properties of hydrocarbons appearing from 1938 to 1952 are included in this volume.

Price (API Members, \$3.60)....\$6.00

Handbook of Degree-Day Data for the United States

Volume I—contains statistical summarizations of the degree-day data for 171 weather bureau stations with long records throughout the United States. An introductory text explains the statistics and their interpretations in simple, nontechnical language.

Price (API Members, \$3.00)....\$5.00

Volume II—contains the raw degree-day data for each month and year of record for the 171 stations analyzed in Volume I. This volume also contains an abbreviated history of each of the weather bureau stations showing when the station locations were changed.

Price (API Members, \$3.00)....\$5.00

The following material must be ordered direct from:

Carnegie Institute of Technology
Petroleum Research Laboratory
Pittsburgh 13, Pa.

After June 30, 1961, please order direct from:

API Data Office
Texas A & M College
College Station, Texas

Selected Values of Physical and Thermodynamic Properties of Hydrocarbons and Related Compounds, 1953

API Research Project 44, Data on Hydrocarbons and Related Compounds, located at Carnegie Institute of Technology, Pittsburgh, Pa., has collected, calculated, and compiled data of interest to the petroleum industry covering physical and thermodynamic properties of hydrocarbons and all related compounds. The data obtained by this project through 1952 are published in book form.

Price (API Members, \$5.25)....\$7.00

Data Issued by Research Project 44

Research Project 44 issues, in loose-leaf sheets, the data which it collects, calculates, and compiles. Only a complete set of loose-leaf data sheets may be purchased. If desired, supplemental sheets which are issued periodically may be purchased to keep the volume up to date. The cost of a complete set of data as of July 1, 1960 is as follows:

Tables of Physical and Thermodynamic Properties of Hydrocarbons, 2021 sheets	\$202.10
Infrared Spectral Data, 2240 sheets	336.00
Ultraviolet Spectral Data, 846 sheets	126.90
Raman Spectral Data, 393 sheets	58.95
Mass Spectral Data, 1845 sheets	276.75
Nuclear Magnetic Resonance, 13 sheets	1.95
Total Cost	\$1002.65

FILMS

The following films are available on short term loan to Petroleum Companies, Educational and Scientific Institutions and Societies by writing on their letterhead to:

MR. E. O. MATTOCKS, Director
Department of Technical Services
American Petroleum Institute
1271 Avenue of the Americas
New York 20, New York

Microscopic Behavior of Fluids in Porous Matrices

A 16mm color sound production with a running time of 28 minutes. This is a microscopic study of the behavior of immiscible liquids in synthetic flow beds.

Microscopic Behavior of Fluids in Porous Systems

A 37 minute 16mm color sound film emphasizing displacements involving two-phase combinations of oil, gas and water. The matrices considered are uniform single-layered packs of spherical grains and thin sections of natural reservoir rocks.

Safety and Fire Protection

Accident Prevention Manual No. 1

Cleaning Petroleum Storage Tanks—Section A, Crude-Oil and Unfinished-Products Tanks, 1955

A discussion of safe practices in tank cleaning—including the prevention of fires and explosions, and inhalation of toxic substances—and description of cleaning methods and personal protective equipment.

20 pages, illustrated in color, \$1.00

Accident Prevention Manual No. 1

Cleaning Petroleum Storage Tanks—Section B, Gasoline Tanks, 1955

This is the same as Section A, except it deals entirely with cleaning of gasoline tanks.

20 pages, illustrated in color, \$1.00

Accident Prevention Manual No. 3

Gas and Electric Cutting and Welding, 1953

Suggested precautions are outlined for the protection of persons from injury and for the protection of property from damage by fire which might arise during the operation of electric and gas welding and cutting equipment in and around petroleum operations.

18 pages, illustrated in color, \$1.00

Accident Prevention Manual No. 5

Service Station Safety, 1959

This manual explains how better service can be provided with greater safety to enhance the position of any service station in its community. Through efficient operation by personnel experienced in the basic principles of safety and fire protection, accidents and fires will be eliminated.

31 pages, illustrated in color, \$1.00

Accident Prevention Manual No. 6

Safe Practices in Well-Pulling Operations, 1956

This manual outlines the duties of the crew members

and gives suggested safe practices in the operation of equipment used in well pulling.

24 pages, illustrated in color, \$1.00

Accident Prevention Manual No. 8

Safe Practices in Bulk-Plant Operations, 1955

Prepared to make available, in convenient form, the basic principles of safety and fire protection in the operation of bulk plants.

24 pages, illustrated in color, \$1.00

Accident Prevention Manual No. 10

Safe Practices in Drilling Operations, 1953

Included in this manual is the latest information on safe drilling practices which may make it possible for members of drilling crews to avoid many costly mistakes and injuries.

36 pages, illustrated in color, \$1.00

Accident Prevention Manual No. 13

Cleaning Mobile Tanks Used for Transportation of Flammable Liquids—Section A, Tank Vehicles, 1959

Describes measures which should be taken to protect personnel against harmful vapor concentrations and to avoid the ignition of flammable vapors during tank-vehicle cleaning operations.

16 pages, illustrated in color, \$1.00

Accident Prevention Manual No. 13

Cleaning Mobile Tanks Used for Transportation of Flammable Liquids—Section B, Tank Cars, 1958

This publication provides information on how safely to prepare for removal from service or for repair any tank car which has been used for the transportation of flammable liquids. It outlines measures which should be taken to protect personnel from exposure to harmful vapor concentrations or oxygen deficiency, and it suggests measures which should be taken to avoid accidental ignition of flammable vapors which may be present during certain phases of tank car cleaning and repair operations.

16 pages, illustrated in color, \$1.00

API RP 2000: Guide for Tank Venting, 1952

This publication describes a recommended procedure for testing venting devices on low-pressure above-ground storage tanks used for petroleum and petroleum products, and contains venting-capacity tables.

8 pages, 8½ in. by 11 in., 25¢

API RP 2001: Fire Protection in Refineries, 1959

The purpose of this publication is to provide a better understanding of fire protection problems and of the steps necessary to insure the safe storing, handling, processing, and shipping of petroleum and petroleum products in refineries. The general principles mentioned in the publication are based in large measure upon composite experience in a large number of refineries.

28 pages, price \$1.00

API RP 2002: Fire Protection in Natural-Gasoline Plants, 1956

Contains recommendations for fire-protection equipment and an employee-training program for use in natural-gasoline and cycling plants.

16 pages, illustrated in color, \$1.00

API RP 2003: Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents, 1956

Described in this publication are some of the conditions

which have resulted in oil fires ignited by electrical sparks and arcs from so-called natural causes, as well as the methods which the petroleum industry currently is applying for the prevention of ignitions from these sources. 16 pages, price \$1.00

API RP 2004: Fire Protection in Drilling Operations, 1960

This recommended practice contains suggestions for a program of fire prevention, control, and extinguishment, as well as suggestions for a training program for personnel in the drilling industry. 12 pages, price \$1.00

API BULLETIN 2024: Safe Practices in Geophysical Exploration Operations, 1960

Intended primarily to cover the details of seismic operations. This manual also covers the basic principles which apply equally to other phases of geophysical exploration, such as gravity meter, magnetometer, and shallow core hole drilling. Price 8 x 10½, \$1.00
3¼ x 6¾, \$1.00

Sparks from Hand Tools, 1956

The American Petroleum Institute, through its Central Committees on Accident Prevention and Fire Protection, has: 1, reviewed data on the ability of sparks which may be produced in the use of hand tools to ignite petroleum hydrocarbons; 2, reviewed fire records available to it through its member companies; and 3, reached the conclusion that sparks from hand tools have not contributed significantly as a source of ignition for accidental fires. 4 pages, Free

First-Aid Training Guide and Safety Information, 1958

This guide, for use by first-aid instructors, provides the fundamentals of training, viz: 1, artificial respiration; 2, control of bleeding; 3, treatment for shock; 4, care of open wounds and burns; 5, care of dislocations and fractures; and 6, transportation of the injured. The guide also outlines the petroleum industry's program for the safety of the individual employee, as well as the personal protective equipment available and its function.

30-page flip chart, 17 in. x 22 in., illustrated in color, \$25.00

First-Aid Training Guide and Safety Information, 1958

A student's handbook reproduction of the first-aid instructor's flip chart.

80 pages, 5½ in. by 7 in., illustrated in color, \$1.00

First-Aid Card

A card which may be presented to each student who completes the first-aid training course.

2¼ in. by 3½ in., illustrated in color, 5¢

20-Year Summary of Fire Losses in the Petroleum Industry (1934-1953) 13 pages, 8½ in. by 11 in., 50¢

Annual Summaries

The following items are published annually (single copy gratis; in quantity, prices on request):

Summary of Injuries in the Petroleum Industry

Summary of Motor-Vehicle Accidents in the Petroleum Industry

Review of Fatal Injuries in the Petroleum Industry

Fire Losses in the Petroleum Industry

FILMS

Produced for specific programs by member companies and made available as another API safety service.

How to order films—Direct your purchase order for any or all films to: *Texas Industrial Film Company, 2528 North Boulevard, Houston, Texas.*

For Refinery and Gasoline Plant Meetings

Thermal Forces (Available for preview)

A simplified presentation of a problem in physics relating to the effect of heat on water in closed containers. It shows, by animated drawings, how thermal expansion takes place, and points out the increasing danger of these forces in operating equipment.

26 minutes, sound-color, 16-mm., \$172.00
(Produced by Humble Oil & Refining Co.)

Hazardous Helper (Available for preview)

An interesting story of the danger of catheads used in drilling operations and the precautions to be taken during their operation. It encourages safe practices and stimulates interest in the care and maintenance of this useful yet hazardous drilling rig helper.

16 minutes, sound-color, 16 mm., \$83.00
(Produced by Humble Oil & Refining Co.)

More Than Magic (Available for preview)

An unusual story treatment in which a parallel is drawn between the acts of a magician and the job of handling tongs, slips and elevators while making a round trip on a drilling rig. It shows, regardless of the job, preparedness, skill, caution, alertness, and teamwork are essential to the success of any performance.

15 minutes, sound-color, 16-mm., \$89.00
(Produced by Humble Oil & Refining Co.)

Fog Techniques

A fire training film showing an actual oil well fire and its extinguishment by trained men applying the water fog technique principle. It also shows the various phases of training personnel in effective fire drills on simulated fires and how to employ this training in combating various types of oil well fires.

20 minutes, silent-color, 16-mm., \$70.00
(Produced by Union Oil Co.)

Pageant of Progress*

Shows how the petroleum industry, through improved methods and mass production, has taken its place in America's Pageant of Progress. Illustrates how increased storage and larger tank truck deliveries minimize accidents and reduce fire hazards, thus improving distribution problems concerning public safety.

20 minutes, black and white, 35-mm. and record, \$15.00

*B&W Sound Slide Film

(Produced by Humble Oil & Refining Co.)

Tank Truck Fires (Available for preview)

Unrehearsed scenes of actual training of drivers, on safe handling of tank truck fires, by use of dome covers and emergency valves. Illustrates extinguishment of fires under the hood, and at the dome, as well as spill fires. Also shows extinguishment of loading rack overflow fires with

truck and plant extinguishers. Particularly interesting to fire departments.
15 minutes, sound-color, 16-mm., \$77.00
(Produced by Socony Mobil Oil Co.)

Bulletins, Recommended Practices and Standards

API RP 50A, Fourth Edition, June, 1957:
Recommended Practice for Measuring, Sampling, and Testing Natural Gas.

Covers measuring natural gas (with appendices on pressure bases and special extension tables), sampling, determination of specific gravity, fractional analysis, determination of hydrogen sulfide, carbon dioxide, water vapor, free oxygen, heating value, and gasoline content.

Price \$1.00

API RP 50B, Fourth Edition, June, 1957:
Recommended Practice for Measuring, Sampling, and Testing Natural Gasoline and Other Light Liquid Petroleum Hydrocarbons.

Covers storage and measurement, sampling, determination of gravity, color, doctor test, corrosion, vapor pressure, and distillation, selected from standards now in use.

Price \$1.00

API Standard 1101, Measurement of Petroleum Liquid Hydrocarbons by Positive Displacement Meter, August, 1960

Standard covers the installation of meters, meter provers and their calibration, meter proving procedures and meter performances. Also included is a section on the operation and maintenance of metering systems as well as over 100 terms and definitions related to meter work.

Price \$3.00

API Standard 1201, Calibrating Tank-Car Tanks and Measuring, Sampling, and Calculating Tank-Car Quantities (Nonpressure-Type Tanks Cars), 1957

Now being revised. The code covers method of determining accurately the capacity of tank cars for handling low vapor pressure products. Also methods for determining the quantity and quality of petroleum materials in a tank car are given.

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API Standard 1202, Calibrating Tank Car Tanks and Measuring, Sampling, and Calculating Tank Car Quantities (Pressure Type), 1960

Methods for accurately calibrating tank cars of the type used for high vapor pressure products are given. Also procedures for gaging and determining the quality of the product contained in the car are included.

Price \$1.00

API Standard 2500, Measuring, Sampling and Testing Crude Oil, 1961

The Standard was developed by the Committee on Crude Oil Measurements and covers: measurement of liquid volume, temperature measurement, sampling, gravity determination, vapor pressure determination, B.S. & W., automatic gaging devices, automatic temperature devices, marine-tank ships and barges, automatic line samples and lease automatic custody transfer.

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API Standard 2501, Crude Oil Tank Measurement and Calibration, 1961

The Committee on Crude Oil Measurements has issued this Standard which covers general strapping requirements for wooden tanks, vertical steel tanks, and horizontal cylindrical tanks. Calculation methods for increment and total tank capacities are given as well as liquid calibration. Method of preparing gage tables is also presented.

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API Bulletin 2509 A, Lease Automatic Custody Transfer, August, 1956

The bulletin summarizes information that has been gained from the study of the experimental and operating systems devised by various companies for automatic custody transfer of crude oil from producing leases.

Price \$1.00

API Standard 2510, The Design and Construction of Liquefied-Petroleum-Gas Installations at Marine and Pipeline Terminals, Natural-Gasoline Plants, Refineries, and Tank Farms, June, 1957

This standard applies principally to installations which are large in size or are closely associated with operating units, or both. The more complex problems presented by such installations require wider latitude to the designer than installations that are covered by the present National Fire Protection Association Standards.

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API Bulletin 2511, Precautionary Labels, January, 1958

Petroleum warning label terms are defined and instructions for the preparation of labels are given. Label content is also discussed. More than 15 specimen labels are included in this bulletin prepared by the Interdivisional Committee on Labeling.

Price \$1.00

API Bulletin 2512, Tentative Methods of Measuring Evaporation Loss from Petroleum Tanks and Transportation Equipment, July, 1957

In this first of a series of bulletins which the Evaporation Loss Committee Plans to issue on the subject, technical details are given for several methods of measuring actual evaporation losses.

Price \$2.00

API Bulletin 2513, Evaporation Loss in the Petroleum Industry—Causes and Control, February, 1959

Sources of evaporation loss, the factors affecting evaporation, and the equipment and procedures for controlling evaporation loss, are discussed in this bulletin.

Price \$1.50

API Bulletin 2514, Evaporation Loss From Tank Cars, Tank Trucks and Marine Vessels, November, 1959

Testing methods and correlations for loading, unloading and transit losses from tank cars, tank trucks, and marine vessels are explained in this bulletin.

Price \$1.00

API Bulletin 2515, Use of Plastic Foam to Reduce Evaporation Loss, 1960

Evaluation of effectiveness, testing methods for measuring loss, loss reduction in static and working service, disappearance of foam particles and reduction in corrosion rates are covered in this bulletin.

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DEPARTMENT OF STATISTICS

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A weekly publication containing figures indicating crude oil production, by individual fields and states; refinery activity and principal product inventories, by Bureau of Mines Refinery Districts; and other pertinent operating statistics including the importation of crude oil and products; gasoline consumption by states; and a recapitulation of Bureau of Mines, Bureau of the Census and other related statistical information. It is mailed fourth class late each week, free to members but upon subscription to others. Single copy 25¢

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Advance News

As its name implies, an advance copy in mimeograph form of certain weekly information on crude oil production, by states; refinery activity and principal product inventories, by Bureau of Mines Refinery Districts; and imports of crude oil and refined products that will later in the week be included in the printed Statistical Bulletin. It is mailed from New York first class each Wednesday afternoon, containing figures as of the previous week, to trade magazines, newspapers and other periodicals. It is also available through subscription. Subscription per year, \$12.00

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This is compiled and released semi-monthly. It covers production and inventories of LP and LR-Gas. The inventories as of the fifteenth and last day of each month and production during the first and second-halves of each month. The figures are broken up into eight major districts of the United States, generally following or as combinations of Bureau of Mines Refining Districts. They show production of Ethane-Ethylene; Propane; Butane; Butane-Propane Mix; Other Mix and Total. Inventories of LP-Gas are by districts showing the total at plants, terminals and underground, and the underground for the United States only, separately. Inventories of LR-Gas are at refineries for the major districts referred to, with underground inventories for the United States shown separately.

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January 24, 1956

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- 1) 1956 Roster of Medical and Health Committee of the API
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- 2) 1956 MAC Mailing List for Mimeographed Communications and
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should be made to these lists.

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DEPARTMENT OF TECHNICAL SERVICES

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50 WEST 50TH STREET

NEW YORK 20, N. Y.

OFFICE OF THE PRESIDENT

March 7, 1957

To Members
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Technical Advisors

Gentlemen:

Please substitute the enclosed roster of MAC Sub-
committees as corrected 3/7/57 for the previous roster dated
2/12/57.

Very truly yours,

W. Strop

DVS:js
Enclosure

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TELEPHONE: WABASH 5-1600

October 26, 1959

Miss Brenda Kirkham
University of Cincinnati
The Kettering Laboratory
College of Medicine
Eden Avenue
Cincinnati 19, Ohio

Dear Miss Kirkham:

In accordance with your letter of October 21, 1959, we have mailed the Final Report of A.P.I. Research Project MC-1 to Drs. Call, Miller and Mitchell.

Enclosed, as you requested, is copy of the members (with addresses) of the Medical Advisory Committee.

Very truly yours,

R. E. Eckardt
R. E. ECKARDT, M.D. *EW*

/ch

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ASA 262 N. V. Hendricks, P. D. Halley, Alternate
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Corrected 3/7/57

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Mr. R. C. Mithoff Calif. Research
Dr. E. W. Adams, Std. of Ind.
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- ① ~~Report~~ Report + copy of Budget sent air mail 4-16-57
2 copies of Introduction sent 4-18-57
- ② Report + 2 copies of Introduction sent 4-18-57
- ③ Ltr to Dr. Eckardt sent to Subcommittee 4-17-57

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NEW YORK 20, N. Y.

DEPARTMENT OF TECHNICAL SERVICES
DAVID V. STROOP, DIRECTOR

January 24, 1956

To Members
Medical Advisory Committee

Gentlemen:

Your chairman, L. E. Curtis, M. D., has appointed the Medical Advisory Committee subcommittees for 1956 with officers and members as follows:

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Vice Chairman	- V. C. Baird, M. D.
Secretary	- F. D. Gassaway, M. D.
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	- C. H. Hine, M. D.
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10) Subcommittee on Toxicological Reviews

Chairman - Marshall Clinton, M. D.
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 - L. C. Beard

For your convenient references, MAC liaison and representation with or on other committees or groups are listed as follows:

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Medical Advisory Committee liaison
Robert E. Eckardt, M. D.
- 3) Liaison with Smoke and Fumes Committee
API Division of Refining
Medical Advisory Committee liaison through
Chairman, Subcommittee on Atmospheric Pollutants.
- 4) American Standards Association
Medical Advisory Committee is represented on two
committees by Allan Dooley, The Texas Company.
- 5) Committee on Toxicology - American Medical Association
Dr. Osborn has been requested to serve informally
as liaison with Torald Sollmann, M. D., Chairman.
- 6) Interdivisional Committee on Labeling (API)
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- 7) Liaison on First Aid Training
T. M. Frank, M. D.

Also for your information and files we enclose:

- 1) 1956 Roster of Medical and Health Committee of the API
Board of Directors.
- 2) 1956 MAC Mailing List for Mimeographed Communications and
Circulars.

Please let me have any corrections, additions or deletions which
should be made to these lists.

Very truly yours,

W. Stroop

DVS:ed
Enclosures

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Ardmore, Okla.

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1627 Locust St.
St. Louis 3, Mo.

B. BREWSTER JENNINGS
Box 666
Glen Head, N. Y.

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Phelps Townhouse
506 East Fourth St.
Cincinnati 2, Ohio

E. A. LANDRETH
104 Hazelwood Drive
Fort Worth, Texas

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Brown Brothers, Harriman
and Co.
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Fort Lauderdale, Fla.

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1608 Walnut St.
Philadelphia 3, Pa.

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E. L. SHEA
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100 Park Ave.
New York 17, N. Y.

A. A. STAMBAUGH
The Standard Oil Co. (Ohio)
Midland Bldg.
Cleveland 15, Ohio

W. L. STEWART, JR.
Union Oil Co. of California
Box 7600
Los Angeles 54, Calif.

CHARLES L. SUHR
South Penn Oil Co.
Box 78
Oil City, Pa.

JOHN R. SUMAN
1102 Texas National Bank Bldg.
Houston 2, Texas

WALTER C. TEAGLE
30 Rockefeller Plaza
New York 20, N. Y.

L. S. WESCOAT
The Pure Oil Co.
35 East Wacker Drive
Chicago 1, Ill.

ROBERT E. WILSON
U. S. Atomic Energy Commission
1717 H St., N.W.
Washington 25, D.C.

AMERICAN PETROLEUM INSTITUTE

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Bylaw Election Groups and Subgroups (Expiration of Term Indicated)

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GEORGE J. HANKS (1960)

Refining Group

F. G. BANNEROT, JR. (1961) JAMES E. DYER (1960)
C. B. BARRETT (1960) M. J. RATHBONE (1960)
REXFORD S. BLAZER (1961) JOHN E. SELDEN (1961)

Marketing Group

DWIGHT T. COLLEY (1960) JOHN HARPER (1961)
S. H. ELLIOTT (1960) F. O. KOONTZ (1961)
CHARLES Z. HARDWICK (1961)

CENTRAL UNITED STATES

Production Group

J. S. BRIDWELL (1961) MASTON NIXON (1961)
MORGAN J. DAVIS (1960) JOHN E. ROTH (1961)
HAROLD DECKER (1961) FRED W. SHIELD (1960)
H. B. FUQUA (1961) L. A. SUNKEL (1960)
JAKE L. HAMON (1960) PAUL E. TALIAFERRO (1960)
H. L. HUNT (1961) A. W. THOMPSON (1960)
R. L. KIDD (1960) R. L. WHELOCK (1960)
E. H. MCCOLLOUGH (1960) ROBERT F. WINDFOHR (1961)

Refining Group

REID BRAZELL (1961) T. M. MARTIN (1960)
MAX M. FISHER (1960) MONROE E. SPAGHT (1960)
J. PORTER LANGFITT (1961) R. L. TOLLETT (1961)

Marketing Group

K. S. ADAMS (1961) B. L. MAJEWSKI (1961)
ROBERT C. GUNNESS (1960) DON H. MILLER (1961)
HARRY J. KENNEDY (1960) R. L. MILLIGAN (1960)

Board of Directors ELECTION GROUPS (continued)

ROCKY MOUNTAIN

Production Group

WARWICK M. DOWNING (1961) A. E. JOHNSON (1960)
W. W. FLENNIKEN (1960)

Refining Group

GLENN E. NIELSON (1961) M. H. ROBINEAU (1960)

Marketing Group

CHARLES A. PERLITZ, JR. (1960)

PACIFIC COAST

Production Group

L. A. CRANSON (1960) GAGE LUND (1961)
RUSSELL H. GREEN (1960) GEORGE G. MONTGOMERY (1960)
W. M. KECK (1960) HOWARD C. PYLE (1961)

Refining Group

R. G. FOLLIS (1960) D. T. STAPLES (1961)
R. L. MINCKLER (1961)

Marketing Group

CHARLES S. JONES (1960) T. S. PETERSEN (1960)
J. HOWARD MARSHALL (1961)

TRANSPORTATION GROUP

Ships

J. N. PEW, JR. (1960)

Tank Cars

EDWIN A. LOCKE, JR. (1961)

Pipelines

HARRY MORELAND (1960)
G. S. PATTERSON (1960)
FRANK O. PRIOR (1961)
CHARLES E. SPAHR (1961)

SUPPLY GROUP

WILLIAM H. LARKIN (1961) WALLACE D. WILSON (1960)
A. W. MCKINNEY (1961) C. R. ZIMMERMAN (1960)
JOHN G. STAUDT (1961)

NATURAL-GAS GROUP

F. M. BANKS (1961) ED PARKES (1960)

Board of Directors
ELECTION GROUPS (continued)

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PAUL ENDACOTT (1960) W. K. WARREN (1961)

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FRANK BUTTRAM (1961)	STANTON K. SMITH (1961)
JAMES W. FOLEY (1960)	P. C. SPENCER (1960)
B. A. HARDEY (1961)	E. L. STEINIGER (1960)
EUGENE HOLMAN (1960)	HENDERSON SUPPLEE, JR. (1961)
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J. G. JORDAN (1961)	RAWLEIGH WARNER (1960)
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CHARLTON H. LYONS, SR. (1960)	BURL S. WATSON (1961)
L. F. MCCOLLUM (1960)	W. C. WHALEY (1961)
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HARRY W. BASS (1961)	A. L. NICKERSON (1960)
ROBERT G. DUNLOP (1961)	RALPH O. RHOADES (1961)
CLYDE T. FOSTER (1960)	T. RIEBER (1960)
GEORGE F. GETTY II (1960)	WILLIAM C. SMITH (1961)
WALTER S. HALLANAN (1960)	J. E. SWEARINGEN (1961)
HARRY A. JACKSON (1960)	B. B. TURNER (1961)
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AUGUSTUS C. LONG (1960)	J. A. VICKERS (1961)
R. W. MCDOWELL (1961)	RICHARD WAGNER (1960)
CHARLES P. MCGAHA (1961)	

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Cities Service Bldg.
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801 First City National Bank
Bldg.
Houston 2, Texas

DIVISION OF PRODUCTION

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San Francisco 5, Calif.

WHITNEY M. ELIAS
Pan American Petroleum Corp.
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Tulsa, Okla.

GORDON FISHER
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Sinton, Texas

R. O. GARRETT
Texas Gas Exploration Co.
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Houston, Texas

*JAKE L. HAMON
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Gracey-Hellums Corp.
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Houston, Texas

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Texas Gulf Producing Co.
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Houston, Texas

W. H. HUNT
Hunt Oil Co.
700 Mercantile Bank Bldg.
Dallas 1, Texas

E. C. INGRAM
New York State Natural
Gas Co.
140 Stanwix St.
Gateway Center
Pittsburgh, Pa.

WARDELL LEISK
Austral Oil Co., Inc.
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Houston, Texas

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Signal Oil and Gas Co.
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Los Angeles 17, Calif.

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Shreveport, La.

D. A. MCGEE
Kerr-McGee Oil Industries, Inc.
Kerr-McGee Bldg.
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El Dorado, Ark.

S. C. OLIPHANT
Tennessee Gas Transmission
Co.
Box 2511
Houston 1, Texas

LEE S. OSBORNE
Union Pacific Railroad Co.
422 West Sixth St.
Los Angeles 14, Calif.

JOHN PARTRIDGE
United Fuel Gas Co.
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Charleston, W. Va.

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Sun Oil Co.
1608 Walnut St.
Philadelphia 3, Pa.

*API director, appointed by the president.

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E. L. RAWLINS Union Producing Co. Box 1407 Shreveport 92, La.	WALLACE THOMPSON General Crude Oil Co. Box 2252 Houston, Texas
A. S. RHEA Sun Oil Co. Box 2880 Dallas 21, Texas	J. E. TOUSSAINT Standard Oil Co. of California 225 Bush St. San Francisco 20, Calif.
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JOHN E. ROTH Tidewater Oil Co. 4201 Wilshire Blvd. Los Angeles 5, Calif.	*J. A. VICKERS The Vickers Petroleum Co., Inc. 1700 Broadway Denver, Colo.
W. E. SCHOENECK The British-American Oil Producing Co. Box 749 Dallas 21, Texas	*J. ED. WARREN Cities Service Co. 60 Wall St. New York 5, N. Y.
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CHASE E. SUTTON The Pure Oil Co. Box 239 Houston, Texas	F. H. Willibrand Sohio Petroleum Co. Box 9637 Oklahoma City 18, Okla.
R. O. SWAYZE Mobil Oil Co. Box 2122, Terminal Annex Los Angeles 54, Calif.	JOE ZEPPA Delta Drilling Co. Box 2012 Tyler, Texas

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AMERICAN PETROLEUM INSTITUTE

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A. P. FRAME, <i>Vice Chairman</i> Cities Service Co. 60 Wall Tower New York 5, N. Y.	*REXFORD S. BLAZER, <i>President</i> National Petroleum Assn. c/o Ashland Oil and Refining Co. 1401 Winchester Ave. Ashland, Ky.
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DIVISION OF REFINING

GENERAL COMMITTEE (continued)

J. W. MEEHAN Derby Refining Co. Box 1030 Wichita, Kans.	J. S. PFARR Leonard Refineries, Inc. East Superior St. Alma, Mich.
J. W. MILLER International Refineries, Inc. Box 8 Wrenshall, Minn.	N. B. PRICHARD Anderson-Prichard Oil Corp. 1000 Liberty Bank Bldg. Oklahoma City 2, Okla.
S. A. MONTGOMERY Standard Oil Co. (Indiana) Box 5910-A Chicago 80, Ill.	L. W. ROBBIE Texas City Refining, Inc. Box 1271 Texas City, Texas
W. H. MONTGOMERY Mobil Oil Co. 150 East 42nd St. New York 17, N. Y.	J. B. ROGERSON Lion Oil Co. Division of Monsanto Chemical Co. Lion Oil Bldg. El Dorado, Ark.
J. W. MORGAN The British American Oil Co., Ltd. Bay and College Sts. Toronto 3, Ont., Canada	A. W. SCOTT Wolf's Head Oil Refining Co., Inc. Oil City, Pa.
F. C. MORIARTY Aurora Gasoline Co. 15911 Wyoming Ave. Detroit 38, Mich.	*JOHN E. SELDEN South Penn Oil Co. Box 78 Oil City, Pa.
E. F. NELSON Lake Superior Refining Co. Box 42 Superior, Wis.	F. P. SEWELL Delhi-Taylor Oil Corp. 212 North St. Paul St. Dallas 1, Texas
*GLENN E. NIELSON Husky Oil Co. Box 380 Cody, Wyo.	D. S. SIMMONS Imperial Oil Limited 111 St. Clair Ave., W. Toronto 7, Ont., Canada
H. G. OSBORN Continental Oil Co. Box 2197 Houston 1, Texas	H. V. SMITH Kendall Refining Co. 77 North Kendall Ave. Bradford, Pa.
R. S. OTTOSON Hess Trading and Transport, Inc. Port Reading, N. J.	HENRY SONNEBORN III L. Sonneborn Sons, Inc. 300 Park Ave., S. New York 10, N. Y.
W. S. PEELER American Oil Co. 555 Fifth Ave. New York 17, N. Y.	J. S. STACKNER Clark Oil and Refining Corp. 8530 West National Ave. Milwaukee 14, Wis.

*API director, appointed by the president.

DIVISION OF REFINING

GENERAL COMMITTEE (continued)

C. C. TATE
Phillips Petroleum Co.
Bartlesville, Okla.

CLAY THOMPSON
Mohawk Petroleum Corp.
Box 1476
Bakersfield, Calif.

J. W. VAIDEN
Skelly Oil Co.
Box 1650
Tulsa 2, Okla.

A. T. VAN PELT
Berry Asphalt Co.
Box 800
Magnolia, Ark.

J. P. WARNER
Esso Standard
Division of Humble Oil
and Refining Co.
15 West 51st St.
New York 19, N. Y.

*CHARLES E. WEBBER,
President
Natural Gasoline Assn.
of America
c/o Sun Oil Co.
1608 Walnut St.
Philadelphia 3, Pa.

K. A. WEST
Canadian Oil Cos., Ltd.
188 University Ave.
Toronto 1, Ont., Canada

L. A. WHITNEY
Champlin Oil and
Refining Co.
Box 9365
Fort Worth 7, Texas

G. E. WYNN
Suntide Refining Co.
Box 658
Corpus Christi, Texas

R. E. YANCEY
Ashland Oil and Refining Co.
1401 Winchester Ave.
Ashland, Ky.

AMERICAN PETROLEUM INSTITUTE

DIVISION OF MARKETING

General Committee

C. J. GUZZO, *Chairman*
Gulf Oil Corp.
Box 1166
Pittsburgh 30, Pa.

B. W. PICKARD, *Vice Chairman*
Standard Oil Co. of California
225 Bush St.
San Francisco 20, Calif.

ROBERT M. JENNEY, *Secretary*
Jenney Manufacturing Co.
Box 100, Chestnut Hill
Boston 67, Mass.

SPENCER C. BAGGS
Wasatch Oil Co.
2296 Grant Ave.
Ogden, Utah

K. C. BAKER
J. D. Streett and Co., Inc.
4055 Park Ave.
St. Louis 10, Mo.

V. A. BELLMAN
Mobil Oil Co.
150 East 42nd St.
New York 17, N. Y.

E. K. BENNETT
E. K. Bennett Inc.
Box 329
Longview, Texas

DWIGHT F. BENTON
Standard Oil Co. (Indiana)
910 South Michigan Ave.
Chicago 80, Ill.

SAM BOHLEN
Snyder Oil Co.
390 West Market St.
Orrville, Ohio

STANLEY D. BREITWEISER
D-X Sunray Oil Co.
Box 381
Tulsa 2, Okla.

W. W. BRYAN
Humble Oil and Refining Co.
Carter Division
Box 801
Tulsa 2, Okla.

W. C. BURNS
Hartol Petroleum Corp.
50 Rockefeller Plaza
New York 20, N. Y.

GEORGE W. CALKINS
Merchants Oil Co.
105 South Cherokee St.
Denver 23, Colo.

MARTIN E. CITRIN
Citrin Oil Co.
14445 Linwood Ave.
Detroit 38, Mich.

*DWIGHT T. COLLEY
The Atlantic Refining Co.
260 South Broad St.
Philadelphia 1, Pa.

JOHN F. CUMMINS
Cumberland Oil Co.
First St. at Shelby Ave.
Nashville 6, Tenn.

ROYAL E. DECKER
Plymouth Oil Co.
14105 Plymouth Road
Detroit 27, Mich.

PAUL DEER
Bonded Oil Co.
501 West High St.
Springfield, Ohio

B. E. DEVERE
Pathfinder Petroleum Co.
Box 267
South Pasadena, Calif.

H. GEORGE DONOVAN
The Globe Oil and Refining Co.
59 East Van Buren St.
Chicago 5, Ill.

A. D. EUBANK
Quaker State Oil Refining Co.
Box 438, Northwest Station
Kansas City 4, Kans.

I. W. FARISS
Texas City Refining, Inc.
Box 1271
Texas City, Texas

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* API director, appointed by the president.

DIVISION OF MARKETING

GENERAL COMMITTEE (continued)

J. B. FISHER
Kendall Refining Co.
77 North Kendall Ave.
Bradford, Pa.

NORMAN S. FOLEY
Foley's Richfield Service
645 Divisadero St.
Fresno, Calif.

I. L. GOLDMAN
Aurora Gasoline Co.
15911 Wyoming Ave.
Detroit 38, Mich.

E. W. GOULD, JR.
Gould Oil, Inc.
Hyannis, Mass.

MELVIN HALL
Melvin Hall Oil Co.
Box 277
Noel, Mo.

JOSEPH D. HARNETT
The Standard Oil Co. (Ohio)
Midland Bldg.
Cleveland 15, Ohio

***JOHN HARPER**
Harper Oil Co., Inc.
47-15 Thirty-sixth St.
Long Island City 1, N. Y.

CASH B. HAWLEY
325 Farwell Bldg.
Detroit 26, Mich.

LEO J. HOAR
Sinclair Refining Co.
600 Fifth Ave.
New York 20, N. Y.

WALTER L. HOLMGREN
W. H. Barber Co.
825 Thornton St., S.E.
Minneapolis, Minn.

ELMER L. HORSTMAYER
Hyde Park Service Station
3505 Erie Ave. at Pinehurst
Cincinnati 8, Ohio

F. B. INGRAM
Ingram Oil and Refining Co.
1205 Hibernia Bank Bldg.
New Orleans, La.

J. G. JIMENEZ
Tidewater Oil Co.
660 Madison Ave.
New York 21, N. Y.

R. M. JOHNSON
Cosden Petroleum Corp.
Box 1311
Big Spring, Texas

***J. G. JORDAN**
Shell Oil Co.
50 West 50th St.
New York 20, N. Y.

L. R. KAMPERMAN
Leonard Refineries, Inc.
East Superior St.
Alma, Mich.

E. K. KETCHAM
Anderson-Prichard Oil Corp.
Liberty Bank Bldg.
Oklahoma City 2, Okla.

W. G. KING, JR.
Richfield Oil Corp.
555 South Flower St.
Los Angeles 17, Calif.

E. H. LYON
Phillips Petroleum Co.
Adams Bldg.
Bartlesville, Okla.

***B. L. MAJEWSKI**
Great American Oil Co.
855 West Evergreen Ave.
Chicago 22, Ill.

F. H. MEEDER
Richfield Oil Corp. of
New York
708 Third Ave.
New York 17, N. Y.

C. EDWARD MILLER
Time Oil Co.
5150 Wilshire Blvd.
Los Angeles 7, Calif.

CHARLES H. MILLER
Miller Oil Co.
325 North Fourth St.
Zanesville, Ohio

DIVISION OF MARKETING

GENERAL COMMITTEE (continued)

DON H. MILLER
Skelly Oil Co.
Box 1650
Tulsa 2, Okla.

MILES M. MILLS
Oils, Inc.
S.W. Sixth and Murphy Sts.
Des Moines 9, Iowa

H. L. MOIR
The Pure Oil Co.
35 East Wacker Drive
Chicago 1, Ill.

T. B. MURPHY
Western Oil and Fuel Co.
227 Colfax Ave., N.
Minneapolis 5, Minn.

WILLIAM M. MURRAY
Kerr-McGee Oil
Industries, Inc.
306 North Robinson
Oklahoma City 2, Okla.

NORMAN J. NAHOOM
The Bay Petroleum Corp.
Box 349
Tallahassee, Fla.

LESLIE R. NEAL
Leslie Neal and Sons, Inc.
Box 2598
San Antonio, Texas

LEO C. NELSON
Sioux Oil Co.
740 Main St.
Newcastle, Wyo.

JOSEPH L. NOLAN
Farmers Union Central
Exchange, Inc.
1185 North Concord St.
St. Paul 1, Minn.

CHARLES A. PALL
Pall's Standard Service
39 North Pulaski
Chicago 24, Ill.

REID A. PENTICO
Reid's Service, Inc.
Box 329
York, Nebr.

H. T. RAPP
B. F. Bennet Oil Co.
1535 West Thirteenth Ave.
Denver 4, Colo.

B. L. RAY
Esso Standard
Division of Humble Oil and
Refining Co.
15 West 51st St.
New York 19, N. Y.

SAMUEL ROSENWASSER
S. R. Service Stations
460 Stone Ave.
Brooklyn 12, N. Y.

J. B. SAUNDERS
Triangle Refineries, Inc.
2600 Nottingham
Houston 5, Texas

***FRANCIS J. SCHUSTER**
Troy Oil Co., Inc.
820 East Troy Ave.
Indianapolis 3, Ind.

T. H. SCOVELL
Scovell Oil Co.
Box 537
De Land, Fla.

J. M. SHEA, JR.
American Petrofina Co. of
Texas
Mercantile Dallas Bldg.
Dallas 1, Texas

J. H. SHEEHAN
Lion Oil Co.
Division of Monsanto
Chemical Co.
Lion Oil Bldg.
El Dorado, Ark.

***STANTON K. SMITH**
Smith Oil and Refining Co.
1102 Kilburn Ave.
Rockford, Ill.

E. L. STAUFFACHER
Cities Service Co., Inc.
60 Wall Tower
New York 5, N. Y.

JESSE STICKEL
Crown Central Petroleum
Corp.
American Bldg.
Baltimore 3, Md.

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*API director, appointed by the president.

DIVISION OF MARKETING

GENERAL COMMITTEE (continued)

GEORGE M. SULLIVAN
Continental Oil Co.
Box 2197
Houston 1, Texas

PALMER C. TALBUTT
Ashland Oil and Refining Co.
1409 Winchester Ave.
Ashland, Ky.

ROY J. THOMPSON
Apex Motor Fuel Co.
1401 West North Ave.
Chicago 22, Ill.

E. M. TOBY
American Mineral Spirits Co.
527 Madison Ave.
New York 22, N. Y.

MERRILL H. UTLEY
Standard Oil Co. (Kentucky)
Starks Bldg.
Louisville 2, Ky.

P. L. VANDER JAGT
Utah Oil Refining Co.
Box 898
Salt Lake City 10, Utah

GEORGE B. VAUGHAN
Vaughan's Gulf Service Store
4720 Washington Ave.
Houston, Texas

RUSSELL H. VENN
Humble Oil and Refining Co.
Humble Division
Box 2180
Houston 1, Texas

JAMES W. VICKERS
The Vickers Petroleum Co., Inc.
Box 2240
Wichita 1, Kans.

E. E. WALL
The California Oil Co.
1200 State St.
Perth Amboy, N. J.

R. L. WENTWORTH
Republic Oil Refining Co.
Benedum-Trees Bldg.
Pittsburgh, Pa.

REG. C. WEST
Canadian Oil Cos., Ltd.
188 University Ave.
Toronto 1, Ont., Canada

JOHN H. WHITE
Port Oil Co.
Box 372
Charleston, S. C.

THOMAS G. WISE
Husky Hi-Power, Inc.
Box 230
Cody, Wyo.

C. T. WRIGHT
Imperial Oil Limited
111 St. Clair Ave., W.
Toronto 5, Ont., Canada

WILLARD W. WRIGHT
Sun Oil Co.
1608 Walnut St.
Philadelphia 3, Pa.

GRANT H. YOUNG
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539 South Main St.
Findlay, Ohio

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Gulf Oil Corp.
Box 1166
Pittsburgh 30, Pa.

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The Ohio Oil Co.
539 South Main St.
Findlay, Ohio

J. A. AHEARN
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New York 20, N. Y.

A. G. ANDERSON
Mobil Oil Co.
150 East 42nd St.
New York 17, N. Y.

R. A. APPLEMAN
Esso Standard
Division of Humble Oil and
Refining Co.
15 West 51st St.
New York 19, N. Y.

FRANK BAIRD-SMITH
Refiners' Transport and
Terminal Corp.
2111 Woodward Ave.
Detroit 1, Mich.

MUNGER T. BALL
Sabine Transportation Co.
Box 1500
Port Arthur, Texas

N. M. BARRETT
Shell Oil Co.
50 West 50th St.
New York 20, N. Y.

PAUL J. BOND
The Pure Oil Co.
35 East Wacker Drive
Chicago 1, Ill.

H. V. BOOTES
Shippers' Car Line
Division of ACF Industries.
Inc.
750 Third Ave.
New York 17, N. Y.

J. L. BURKE
Service Pipe Line Co.
Box 1979
Tulsa 2, Okla.

A. D. CARLETON
Standard Oil Co. of
California
225 Bush St.
San Francisco 20, Calif.

H. D. CARMICHAEL
Standard Oil Co. (Kentucky)
Box 1446
Louisville, Ky.

M. S. COLLETT
The Atlantic Refining Co.
260 South Broad St.
Philadelphia 1, Pa.

K. A. COVELL
The Pure Oil Co.
35 East Wacker Drive
Chicago 1, Ill.

W. N. DAMONTE
Sinclair Refining Co.
600 Fifth Ave.
New York 20, N. Y.

JOHN P. DENNIS
Texaco Inc.
135 East 42nd St.
New York 17, N. Y.

FAYETTE B. DOW
National Petroleum Assn.
930 Munsey Bldg.
Washington 4, D.C.

*JAMES E. DYER
Sinclair Oil Corp.
600 Fifth Avenue
New York 20, N. Y.

*API director, appointed by the president.

DIVISION OF TRANSPORTATION

GENERAL COMMITTEE (continued)

J. W. EMISON The Texas Pipe Line Co. Box 2332 Houston 1, Texas	S. L. JACKSON Standard Oil Co. (Indiana) 910 South Michigan Ave. Chicago 80, Ill.
H. G. FAIR Phillips Petroleum Co. Bartlesville, Okla.	T. S. JOHNSTON Lakehead Pipe Line Co., Inc. 25 Adelaide St., W. Toronto, Ont., Canada
R. L. FRANCIS Esso Standard Division of Humble Oil and Refining Co. 15 West 51st St. New York 19, N. Y.	L. M. JONASSEN Cleveland Tankers, Inc. Box 6479 Cleveland 1, Ohio
J. W. GENDRON Richfield Oil Corp. 555 South Flower St. Los Angeles 17, Calif.	*CHARLES S. JONES Richfield Oil Corp. 555 South Flower St. Los Angeles 17, Calif.
H. A. GILBERT Oil Transfer Corp. 17 Battery Place New York 4, N. Y.	LOREN F. KAHLE Standard Oil Co. (New Jersey) 30 Rockefeller Plaza New York 20, N. Y.
B. C. GRAVES Union Tank Car Co. 228 North LaSalle St. Chicago, Ill.	R. K. KELLY Tidewater Oil Co. 660 Madison Ave. New York 21, N. Y.
FRED HAGUE Sun Oil Co. 1608 Walnut St. Philadelphia 3, Pa.	A. E. KIHN California Shipping Co. 320 Market St. San Francisco 20, Calif.
H. B. HANEY Tidewater Oil Co. 4201 Wilshire Blvd. Los Angeles 5, Calif.	A. B. KURZ Keystone Shipping Co. 1000 Walnut St. Philadelphia 7, Pa.
D. B. HODGES Shell Oil Co. 50 West 50th St. New York 20, N. Y.	J. R. LEWALLEN Anderson-Prichard Oil Co. Apco Tower Oklahoma City 2, Okla.
J. A. HORNER Shell Pipe Line Corp. Box 2648 Houston 1, Texas	W. A. LINDSAY The Atlantic Refining Co. 260 South Broad St. Philadelphia 1, Pa.
J. L. IRVIN Gulf Refining Co. Box 2100 Houston 1, Texas	R. H. LYNCH Atlantic Pipe Line Co. 260 South Broad St. Philadelphia 1, Pa.

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DIVISION OF TRANSPORTATION

GENERAL COMMITTEE (continued)

R. W. McDOWELL D-X Sunray Oil Co. Box 381 Tulsa 2, Okla.	A. E. PECORE Humble Pipe Line Co. Box 2220 Houston 1, Texas
E. G. MADDOCK Cities Service Oil Co. 17 State St. New York 4, N. Y.	L. C. PETERS Continental Oil Co. Box 2197 Houston 1, Texas
J. V. C. MALCOLMSON Texaco Inc. 135 East 42nd St. New York 17, N. Y.	*T. S. PETERSEN Standard Oil Co. of California 225 Bush St. San Francisco 20, Calif.
F. R. MARKLEY Sun Oil Co. 1608 Walnut St. Philadelphia 3, Pa.	*J. N. PEW, JR. Sun Oil Co. 1608 Walnut St. Philadelphia 3, Pa.
R. L. MINCKLER Mobil Oil Co. Box 2122, Terminal Annex Los Angeles 54, Calif.	H. P. PRESSLER Humble Oil and Refining Co. Humble Division Box 2180 Houston 1, Texas
C. S. MITCHELL Cities Service Co. 60 Wall Tower New York 5, N. Y.	R. L. RANSOME Shell Oil Co. Box 2099 Houston 1, Texas
R. F. MOORE Platte Pipe Line Co. 1200 Power and Light Bldg. Kansas City 5, Mo.	L. E. REED Mobil Oil Co. 150 East 42nd St. New York 17, N. Y.
HARRY MORELAND Great Lakes Pipe Line Co. Drawer 2239 Kansas City 13, Mo.	C. O. REEDER Continental Oil Co. Ponca City, Okla.
R. K. PAINE Standard Oil Co. of California 225 Bush St. San Francisco 20, Calif.	B. E. ROGERS Richfield Oil Corp. 645 South Mariposa Ave. Los Angeles 5, Calif.
*ED PARKES United Gas Corp. Box 1407 Shreveport, La.	JOHN D. ROGERS Esso Standard Division of Humble Oil and Refining Co. 15 West 51st St. New York 19, N. Y.
G. S. PATTERSON The Buckeye Pipe Line Co. 30 Broad St. New York 4, N. Y.	H. G. SCHAD The Atlantic Refining Co. 260 South Broad St. Philadelphia 1, Pa.

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DIVISION OF TRANSPORTATION

GENERAL COMMITTEE (continued)

F. CUSHING SMITH Standard Oil Co. (Indiana) 910 South Michigan Ave. Chicago 80, Ill.	C. F. VANDER CLUTE Gulf Oil Corp. 17 Battery Place New York 4, N. Y.
*CHARLES E. SPAHR The Standard Oil Co. (Ohio) Midland Bldg. Cleveland 15, Ohio	C. H. WAGER Shell Oil Co. 50 West 50th St. New York 20, N. Y.
J. A. STOLL The Standard Oil Co. (Ohio) Midland Bldg. Cleveland 15, Ohio	*BURL S. WATSON Cities Service Co. 60 Wall Tower New York 5, N. Y.
T. M. THOMPSON General American Transportation Co. 135 South LaSalle St. Chicago 90, Ill.	E. H. WILDER Sun Oil Co. Box 2831 Beaumont, Texas
L. H. TRUE Magnolia Pipe Line Co. Box 900 Dallas 21, Texas	PARKER S. WISE Mobil Oil Co. 150 East 42nd St. New York 17, N. Y.
E. W. UNRUH Sinclair Pipe Line Co. Independence, Kans.	R. D. WYCKOFF Gulf Research and Development Co. Drawer 2038 Pittsburgh 30, Pa.

AMERICAN PETROLEUM INSTITUTE

DIVISION OF FINANCE AND ACCOUNTING

General Committee

W. J. ARNOLD, Chairman The Pure Oil Co. 35 East Wacker Drive Chicago 1, Ill.	*CLYDE T. FOSTER The Standard Oil Co. (Ohio) Midland Bldg. Cleveland 15, Ohio
A. O. SAVAGE, Vice Chairman Standard Oil Co. (New Jersey) 30 Rockefeller Plaza New York 20, N. Y.	J. B. GALBRAITH Pan American Petroleum Corp. Box 591 Tulsa 2, Okla.
R. L. ANTHONY, Secretary Leonard Refineries, Inc. East Superior St. Alma, Mich.	W. T. GRUMMER Gulf Oil Corp. Box 1166 Pittsburgh 30, Pa.
W. T. AUTREY Richfield Oil Corp. 555 South Flower St. Los Angeles 17, Calif.	G. H. HAGLE Continental Oil Co. Box 2197 Houston 1, Texas
NEALE BOYD Anderson-Prichard Oil Corp. Liberty Bank Bldg. Oklahoma City 2, Okla.	R. P. HENRY Sunnay Mid-Continent Oil Co. Box 2039 Tulsa 2, Okla.
T. F. BRADSHAW The Atlantic Refining Co. 260 South Broad St. Philadelphia 1, Pa.	C. R. HERPICH Plymouth Oil Co. Benedum-Trees Bldg. Pittsburgh 22, Pa.
A. A. BUZZI Shell Oil Co. 50 West 50th St. New York 20, N. Y.	H. W. HINKLE Phillips Petroleum Co. Bartlesville, Okla.
E. G. CHRISTIAN Cities Service Co. 60 Wall Tower New York 5, N. Y.	R. H. HUGHES John W. Mecom Box 2566 Houston 1, Texas
J. B. COOK Woodley Petroleum Co. Box 1403 Houston, Texas	D. P. JONES Sun Oil Co. 1608 Walnut St. Philadelphia 3, Pa.
*ROBERT G. DUNLOP Sun Oil Co. 1608 Walnut St. Philadelphia 3, Pa.	D. B. LOVEJOY Union Oil and Gas Corp. of Louisiana Houston Club Bldg. Houston 2, Texas
S. H. DURKEE The Superior Oil Co. Box 3015, Terminal Annex Los Angeles 54, Calif.	E. P. LUDMAN Signal Oil and Gas Co. Box 17126, Foy Station Los Angeles 17, Calif.

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*API director, appointed by the president.

DIVISION OF FINANCE AND ACCOUNTING

GENERAL COMMITTEE (continued)

O. L. LUPER Humble Oil and Refining Co. Box 2180 Houston 1, Texas	P. A. ROWLAND Keweenaw Oil Co. Box 591 Bryn Mawr, Pa.
S. H. McMANUS Sinclair Oil Corp. 600 Fifth Ave. New York 20, N. Y.	P. C. SALMAN Socony Mobil Oil Co., Inc. 150 East 42nd St. New York 17, N. Y.
L. K. MACFARLAND Kingwood Oil Co. First National Bldg. Oklahoma City 2, Okla.	C. J. SENDER Warren Petroleum Corp. Box 1589 Tulsa 2, Okla.
R. A. MARTIN The Standard Oil Co. (Ohio) Midland Bldg. Cleveland 15, Ohio	F. S. SLICK The Ohio Oil Co. 539 South Main St. Findlay, Ohio
*R. L. MILLIGAN The Pure Oil Co. 35 East Wacker Drive Chicago 1, Ill.	E. G. SOMMER Standard Oil Co. (Kentucky) Starks Bldg. Louisville 2, Ky.
L. R. MILLS Crown Central Petroleum Corp. American Bldg. Baltimore 3, Md.	W. F. STYLER, JR. Crescent Petroleum Corp. Box 412 Tulsa 1, Okla.
W. K. MINOR Standard Oil Co. of California 225 Bush St. San Francisco 20, Calif.	*R. L. TOLLETT Cosden Petroleum Corp. Box 1311 Big Spring, Texas
C. W. PIERCE Monterey Oil Co. Box 7033 Long Beach 7, Calif.	W. A. UNDERWOOD Standard Oil Co. (Indiana) 910 South Michigan Ave. Chicago 80, Ill.
A. J. POINTS Ashland Oil and Refining Co. 1409 Winchester Ave. Ashland, Ky.	W. D. WALSER Tennessee Gas Transmission Co. Box 2511 Houston 1, Texas
R. G. RANKIN Texaco Inc. 135 East 42nd St. New York 17, N. Y.	D. A. WATKINS Keer-McGee Oil Industries, Inc. Kerr-McGee Bldg. Oklahoma City 2, Okla.
R. D. RICHARDSON Tidewater Oil Co. 4201 Wilshire Blvd. Los Angeles 5, Calif.	L. M. WOODWARD Derby Refining Co. Box 1030 Wichita 1, Kans.

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AMERICAN PETROLEUM INSTITUTE

COMMITTEE ON PUBLIC AFFAIRS

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REID BRAZELL Leonard Refineries, Inc. East Superior St. Alma, Mich.	HERMAN P. PRESSLER Humble Oil and Refining Co. Humble Division Box 2180 Houston 1, Texas
STANLEY D. BREITWEISER D-X Sunray Oil Co. Box 381 Tulsa 2, Okla.	ROBERT H. SCHOLL Esso Standard Division of Humble Oil and Refining Co. 15 West 51st St. New York 19, N. Y.
HILLYER BROWN Standard Oil Co. of California 225 Bush St. San Francisco 20, Calif.	JOHN J. SCOTT Socony Mobil Oil Co., Inc. 150 East 42nd St. New York 17, N. Y.
R. H. COLLACOTT The Standard Oil Co. (Ohio) Midland Bldg. Cleveland 15, Ohio	HENDERSON SUPPLEE, JR. The Atlantic Refining Co. 260 South Broad St. Philadelphia 1, Pa.
PAUL ENDACOTT Phillips Petroleum Co. Bartlesville, Okla.	LLOYD F. THANHOUSER Continental Oil Co. Box 2197 Houston 1, Texas
RICHARD J. FARRELL Standard Oil Co. (Indiana) 910 South Michigan Ave. Chicago 80, Ill.	ROY J. THOMPSON Apex Motor Fuel Co. 1401 West North Ave. Chicago 22, Ill.
JAKE L. HAMON Vaughn Bldg. 1712 Commerce St. Dallas 1, Texas	JOSEPH P. WALSH Sinclair Oil Corp. 600 Fifth Ave. New York 20, N. Y.
J. G. JIMENEZ Tidewater Oil Co. 660 Madison Ave. New York 21, N. Y.	FRANKLYN WALTMAN Sun Oil Co. 1608 Walnut St. Philadelphia 3, Pa.
WILLIAM F. KENNEY Shell Oil Co. 50 West 50th St. New York 20, N. Y.	BURL S. WATSON Cities Service Co. 60 Wall St. New York 5, N. Y.

COMMITTEE ON PUBLIC AFFAIRS (Continued)

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L. E. FITZJARRALD,
*API Vice President for
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Phillips Petroleum Co.
Bartlesville, Okla.

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Assistant Treasurer **Edward C. Belefski**
Director, Division of Refining **W. T. Gunn**
Director, Division of Marketing **A. J. Rumoshosky**
Director, Division of Finance and Accounting **R. H. Stewart**
Director, Department of Technical Services **E. O. Mattocks**
Director, Department of Statistics **William A. Dennison**
Director,
Department of Administrative Services **Henry A. Fondu**
Director, Committee on Public Affairs **John H. Bivins**

DALLAS 1, TEXAS

300 Corrigan Tower Building

Director, Division of Production **W. H. Strang**

WASHINGTON 6, D.C.

1625 K Street, N.W.

Director, Division of Transportation **James E. Moss**

*Not including Henderson Supplee, Jr., *API Vice President for Transportation*, who serves as an appointed member.

WARREN F. KAHLE, M. D.

4706 MONTROSE BOULEVARD

HOUSTON 8, TEXAS

JACKSON 8-6880

February 7, 1956

Dr. D. V. Stroop
American Petroleum Institute
50 West 50th Street
New York 20, New York

Dear Dr. Stroop:

Due to recent commitments with several different industrial concerns it will be impossible for me to continue as a member of the Medical Advisory Committee of the American Petroleum Institute.

My association with the various members has been a very pleasant one and I hope to continue with the many friendships I have enjoyed.

Sincerely yours,

Warren F. Kahle, M.D.

Warren F. Kahle, M. D.

WFK/kr

Copy From D. V. Stroop For Information of Members of
Medical Advisory Committee

2/13/56

AMERICAN PETROLEUM INSTITUTE

50 WEST 50TH STREET

NEW YORK 20, N. Y.

DEPARTMENT OF TECHNICAL SERVICES
DAVID V. STROOP, DIRECTOR

February 10, 1954

To Members
Medical Advisory Committee

Gentlemen:

For 1954, Mr. M. J. Rathbone, Chairman, Medical and Health Committee, has appointed the members of the Medical Advisory Committee as listed on the attached roster, with George M. Saunders, M.D., as Chairman, V. C. Baird, M.D., as Vice Chairman, and F. D. Gassaway, M.D., as Secretary.

We trust that each of you may be able to serve and to take an active part in the work of the committee.

Very truly yours,

W. Stroop

DVS:js
cc: Members, Medical and Health Committee
Attachment

MEDICAL ADVISORY COMMITTEE
OF THE
AMERICAN PETROLEUM INSTITUTE
(FOR 1954)

MEMBERS

George M. Saunders, M.D. (<u>Chairman</u>) . . .	Socony-Vacuum Oil Co., Inc. 26 Broadway, New York 4, N. Y.
V. C. Baird, M.D. (<u>Vice Chairman</u>) . . .	Humble Oil & Refining Co. P. O. Box 2180, Houston 1, Texas
F. D. Gassaway, M.D. (<u>Secretary</u>) . . .	Gulf Oil Corporation P. O. Box 1166, Pittsburgh 30, Pa.
W. O. Armstrong, M.D.	Continental Oil Company Ponca City, Oklahoma
F. F. Boys, M.D.	Sinclair Refining Company P. O. Drawer 60, E. Chicago, Ind.
Marshall Clinton, M.D.	Socony-Vacuum Oil Co., Inc. 135 Linwood Ave., Buffalo 9, N. Y.
J. William Crookshank, M.D.	Cities Service Refining Corp. 716 Hodges St., Lake Charles, La.
L. E. Curtis, M.D.	Standard Oil Co. of California 225 Bush St., San Francisco 20, Cal.
Kieffer Davis, M.D.	Phillips Petroleum Company Bartlesville, Oklahoma
R. E. Eckardt, M.D.	Standard Oil Development Co., Medical Research Div., P. O. Box 51 Linden, New Jersey
K. R. Fourcher, M.D.	Standard-Vacuum Oil Company 26 Broadway, New York 4, N. Y.
T. M. Frank, M.D.	Pan American Refining Corp. Texas City, Texas
C. H. Hine, M.D.	Shell Development Co., 4560 Horton Street, Emeryville, California

15
12
13

MEDICAL ADVISORY COMMITTEE

PAGE 2

W. F. Kahle, M.D.	Eastern States Petroleum Co., Inc. Box 5008 - Harrisburg Station Houston 12, Texas	05
T. J. Kelly, M.D.	Shell Oil Co., P. O. Box 262 Wood River, Illinois	15
W. R. Levis, M.D.	Sun Oil Co., 1608 Walnut Street Philadelphia 3, Pennsylvania	22
E. K. Linder, M.D.	The Atlantic Refining Co., 260 South Broad St., Philadelphia 1, Pa.	01
E. P. Luongo, M.D.	General Petroleum Corp., P. O. Box 2122 Terminal Annex, Los Angeles 54, Calif.	
R. B. Lynn, M.D.	Wood River Oil & Refining Co., Inc. 1000 Washington Ave., Alton, Ill.	
C. R. Miller, M.D.	Tide Water Associated Oil Co., 79 New Montgomery St., San Francisco 20, Calif.	29
M. N. Newquist, M.D.	The Texas Co., 135 East 42nd St. New York 17, New York	03
J. W. Osborn, M.D.	The Standard Oil Co. (Ohio) Midland Bldg., Cleveland 15, Ohio	31
R. C. Page, M.D.	Arabian American Oil Co., 505 Park Ave. New York 22, New York	
R. J. Potts, M.D.	Magnolia Petroleum Company Magnolia Building, Dallas, Texas.	
B. B. Reeve, M.D.	Standard Oil Co. (Indiana), 910 South Michigan Avenue, Chicago 80, Illinois	19
J. C. Ruddock, M.D.	Richfield Oil Corporation Richfield Building, Los Angeles 13, Cal.	
Leo J. Wade, M.D.	Esso Standard Oil Co., 15 West 51st St. New York 19, New York	
E. R. Ware, M.D.	Union Oil Co. of California, Room 309 Union Oil Bldg., Los Angeles 17, Calif.	25

2-10-54

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

DEPARTMENT OF TECHNICAL SERVICES
DAVID V. STROOP, DIRECTOR

February 17, 1954

Notice to Members
Medical Advisory Committee and its Subcommittees

After consultation with the proposed chairmen of subcommittees, the following appointments to subcommittees have been made by the Chairman of the Medical Advisory Committee:

SUBCOMMITTEE ON ATMOSPHERIC POLLUTANTS

Chairman: E. P. Luongo, M. D.
J. W. Hammond
C. H. Hine, M. D.
A. C. Pabst
John C. Ruddock, M. D.

SUBCOMMITTEE ON CUTTING FLUIDS

Chairman: Leo J. Wade, M. D.
Clyde Berry
F. F. Boys, M. D.
J. W. Crookshank, M. D.
Allan E. Dooley
Paul Halley
M. N. Newquist, M. D.
B. B. Reeve, M. D.

Ex Officio - Chairman, Lubrication Committee - Division
of Marketing

SUBCOMMITTEE ON CARCINOGENICITY

Chairman: Robert E. Eckardt, M. D.
E. W. Adams
L. C. Beard, Jr.
Allan E. Dooley
F. D. Gassaway, M. D.
~~L. M. Henderson~~ Mavisic
C. H. Hine, M. D.
E. K. Linder, M. D.
R. C. Mithoff
M. N. Newquist, M. D.
James W. Osborn, M. D.
F. J. Sanders

Ex Officio - Chairman, Lubrication Committee - Division
of Marketing

SUBCOMMITTEE ON ECONOMIC POISONS

Chairman: C. H. Hine, M. D.
L. E. Curtis, M. D.
J. W. Hammond
A. C. Pabst

SUBCOMMITTEE ON FLUORIDES

Chairman: George M. Saunders, M. D.
W. H. Barcus
L. E. Curtis, M. D.
A. C. Pabst

SUBCOMMITTEE ON MEDICAL POLICIES AND PRACTICES

Chairman: Kenneth R. Fourcher, M. D.
T. J. Kelly, M. D.
E. K. Linder, M. D.
J. W. Osborn, M. D.

SUBCOMMITTEE ON PHYSIOLOGY OF THE SKIN

Chairman: Robert E. Eckardt, M. D.
F. F. Boys, M. D.
M. N. Newquist, M. D.

SUBCOMMITTEE ON TOXICOLOGICAL REVIEWS

Chairman: Marshall Clinton, M. D.
V. C. Baird, M. D.
L. C. Beard, Jr.
R. C. Cole
Kieffer Davis, M. D.
J. W. Hammond

SUBCOMMITTEE ON C₉ - C₁₂ AROMATICS

Chairman: C. H. Hine, M. D.
R. D. Bent
J. W. Crockshank, M. D.
Kieffer Davis, M. D.
Allan E. Dooley
Robert E. Eckardt, M. D.

OPERATING SUBCOMMITTEE

Chairman: George M. Saunders, M. D.
Vice Chairman: V. C. Baird, M. D.
Secretary: F. D. Gassaway, M. D.
Robert E. Eckardt, M. D.
E. Kern Linder, M. D.
M. N. Newquist, M. D.

AMERICAN PETROLEUM INSTITUTE

50 WEST 50TH STREET

NEW YORK 20, N. Y.

DEPARTMENT OF TECHNICAL SERVICES
DAVID V. STROOP, DIRECTOR

February 27, 1953

To Members and Associates
of Medical Advisory Committee
and Its Standing Subcommittees

Gentlemen:

For the year 1953, Doctor T. M. Frank, Chairman of the Medical Advisory Committee, has appointed subcommittees as shown on the attached membership lists.

We hope each member and associate appointed to serve on one or more of the subcommittees will be able to take an active part in this important work. Your participation will be greatly appreciated.

If you cannot serve, kindly inform me at your early convenience.

Very truly yours,

DV Strop

DVS:jb
Attachments

MEDICAL ADVISORY COMMITTEE
OF THE
AMERICAN PETROLEUM INSTITUTE
(FOR 1953)

MEMBERS

T. M. Frank, M.D. (<u>Chairman</u>).....	Pan American Refining Corp. Texas City, Texas
George M. Saunders, M.D. (<u>Vice Chairman</u>)	Socony-Vacuum Oil Co., Inc. 25 Broadway, New York, N. Y.
Marshall Clinton, M.D. (<u>Secretary</u>).....	Socony-Vacuum Oil Co., Inc. 135 Linwood Ave., Buffalo 9, N. Y.
W. O. Armstrong, M.D.	Continental Oil Co. Ponca City, Okla.
V. C. Baird, M.D.	Humble Oil & Refining Co. P. O. Box 2180, Houston 1, Texas
F. F. Boys, M.D.	Sinclair Refining Co. P. O. Drawer 60, E. Chicago, Ind.
J. William Crookshank, M.D.	Cities Service Refining Corp. 716 Hodges St., Lake Charles, La.
L. E. Curtis, M.D.	Standard Oil Co. of California, 225 Bush St., San Francisco 20, Calif.
Kieffer Davis, M.D.	Phillips Petroleum Co. Bartlesville, Okla.
Robert E. Eckardt, M.D.	Standard Oil Development Co., Medical Research Div., P. O. Box 51, Linden, N.J.
D. M. English, M.D.	Magnolia Petroleum Co. Beaumont, Texas
Kenneth R. Fourcher, M.D.	Standard Oil Co. (New Jersey), 30 Rockefeller Plaza, New York 20, N. Y.
F. D. Gassoway, M.D.	Gulf Oil Corp., P. O. Box 1166 Pittsburgh 30, Pa.
C. H. Hine, M.D.	Shell Development Co., 4560 Horton Street, Emeryville 8, Calif.

Warren F. Kahle, M.D. Eastern States Petroleum Co., Inc.
Box 5008 - Harrisburg Station
Houston 12, Texas

T. J. Kelly, M.D. Shell Oil Co., P. O. Box 262
Wood River, Ill.

W. R. Levis, M.D. Sun Oil Co., 1608 Walnut St.
Philadelphia 3, Pa.

E. K. Linder, M.D. The Atlantic Refining Co., 260 South
Broad St., Philadelphia 1, Pa.

E. P. Luongo, M.D. General Petroleum Corp., P. O. Box 2122
Terminal Annex, Los Angeles 54, Calif.

Robert Bell Lynn, M.D. Wood River Oil & Refining Co., Inc.
1000 Washington Ave., Alton, Ill.

Clark R. Miller, M.D. Tide Water Associated Oil Co., 79 New
Montgomery St., San Francisco 20, Calif.

M. N. Newquist, M.D. The Texas Co., 135 East 42nd St.,
New York 17, N. Y.

James W. Osborn, M.D. The Standard Oil Co. (Ohio);
Midland Bldg., Cleveland 15, Ohio

R. C. Page, M.D. Arabian American Oil Co., 505 Park Ave.
New York 22, N. Y.

Alternate

Theodore E. Allen, M.D. Arabian American Oil Co., 505 Park Ave.
New York 22, N. Y.

B. B. Reeve, M.D. Standard Oil Co. (Indiana), 910 South
Michigan Avenue, Chicago 80, Ill.

John C. Ruddock, M.D. Richfield Oil Corp., Richfield Bldg.
Los Angeles 13, Calif.

Leo J. Wade, M.D. Esso Standard Oil Co., 15 West 51st St.
New York 19, N. Y.

E. Richmond Ware, M.D. Union Oil Co. of California, Room 309
Union Oil Bldg., Los Angeles 17, Calif.

ASSOCIATES

E. W. Adams Research Dept., Standard Oil Co.
(Indiana), Whiting, Ind.

W. R. Argyle Sinclair Refining Co., 600 Fifth Ave.
New York 20, N. Y.

W. H. Barcus.....	Sun Oil Co., P. O. Box 426 Marcus Hook, Pa.
L. C. Beard, Jr.	Socony-Vacuum Oil Co., Inc. 26 Broadway, New York 4, N. Y.
R. D. Bent.....	The Atlantic Refining Co., 260 South Broad St., Philadelphia 1, Pa.
Clyde Berry.....	Esso Standard Oil Co., 15 West 51st St. New York 20, N. Y.
J. S. Boylan.....	Continental Oil Co. Ponca City, Okla.
C. R. Brown.....	Tide Water Associated Oil Co., 79 New Montgomery St., San Francisco 20, Calif.
L. C. Burroughs.....	Shell Oil Co., 50 West 50th St., New York 20, N. Y.
R. C. Cole.....	Phillips Petroleum Co., Chemical Engineering Div., Bartlesville, Okla.
Allan E. Dooley.....	The Texas Co., 135 East 42nd St. New York 17, N. Y.
R. S. Driver.....	The Atlantic Refining Co., 260 South Broad St., Philadelphia 1, Pa.
Nelson J. Gothard.....	Sinclair Refining Co. Harvey, Ill.
J. W. Hammond.....	Humble Oil and Refining Co. Box 2180, Houston, Texas
L. N. Haugen.....	Cities Service Oil Co. Bartlesville, Okla.
L. M. Henderson.....	The Pure Oil Co., Research and Develop- ment Dept., Box G, Crystal Lake, Ill.
<i>ltz</i> <i>7-22-53</i> C. K. Hewes --- <i>Richfield Oil Corp.</i> <i>553 S. Flower St.</i>	
James E. Hill..... <i>Los Angeles, Calif.</i>	Union Oil Co. of California, 617 West 7th St., Los Angeles 17, Calif.
E. W. Isom.....	Sinclair Refining Co., 600 Fifth Ave., New York 20, N. Y.
R. M. Landon.....	Gulf Oil Corp., P. O. Box 1166 Pittsburgh 30, Pa.
D. W. Larmer.....	Richfield Oil Corp., 555 South Flower St., Los Angeles 17, Calif.

MEDICAL ADVISORY COMMITTEE

Page 4

K. G. Mackenzie.....	<i>replaced 9-18-53 by J.C. Kemp, Jr.</i>	The Texas Co., 135 East 42nd St. New York 17, N. Y.
C. R. McKay.....		Richfield Oil Corp., P. O. Box 787 Wilmington, Calif.
R. C. Mithoff.....		California Research Corp., 200 Bush St., San Francisco 4, Calif.
J. R. Morrison.....		Shell Oil Co., 50 West 50th St. New York 20, N. Y.
C. A. Neilson.....		Continental Oil Co. Ponca City, Okla.
A. C. Pabst.....		Socony-Vacuum Oil Co., Inc. 26 Broadway, New York 4, N. Y.
W. H. Price.....	<i>replaced 9-18-53 by J. D. Haney, Cities Service Petroleum Inc., 54 Wall St, N. Y. 5, N. Y.</i>	Cities Service, 60 Wall Tower New York 5, N. Y.
R. B. Roaper.....		Humble Oil & Refining Co., Box 2180, Houston 1, Texas
F. J. Sanders.....		The Standard Oil Co. (Ohio) Midland Bldg., Cleveland 15, Ohio
R. M. Shepardson.....		Standard Oil Development Co. P. O. Box 121, Linden, N. J.
F. M. Watkins.....		Sinclair Research Laboratories, Inc. 400 East Sibley Blvd., Harvey, Ill.
H. D. Wilde.....		Humble Oil & Refining Co. Box 2180, Houston 1, Texas

AMERICAN PETROLEUM INSTITUTE

50 WEST 50TH STREET

NEW YORK 20, N. Y.

DEPARTMENT OF TECHNICAL SERVICES
DAVID V. STROOP, DIRECTOR

*copied
A/8/53
FE*

March 24, 1953

To Members and Associates
Medical Advisory Committee

Gentlemen:

Dr. Kieffer Davis, Chairman, Subcommittee on
Carcinogenicity has appointed for 1953 the subcommittee's
Research Project MC-1 Advisory Committee comprising:

Robert E. Eckardt, M.D., Chairman
C. H. Hine, M.D.
E. K. Linder, M.D.
M. N. Newquist, M.D.
E. W. Adams
L. C. Beard, Jr.
L. M. Henderson
R. C. Mithoff

It is our hope that each appointee can take an
active part in the important work of this committee, if not,
we shall expect him to notify Dr. Davis promptly.

Very truly yours,

W Stroop

DVS:jb

AMERICAN PETROLEUM INSTITUTE

STANDING SUBCOMMITTEES
OF THE
MEDICAL ADVISORY COMMITTEE

(FOR 1953)

MEMBERS

ASSOCIATES

SUBCOMMITTEE ON ATMOSPHERIC POLLUTANTS

John C. Ruddock (Chairman)	D. W. Larmer
F. D. Gassoway	R. M. Landon
C. H. Hine	L. C. Burroughs
E. P. Luongo	L. C. Beard, Jr.
E. Richmond Ware	J. E. Hill

SUBCOMMITTEE ON AWARDS

George M. Saunders (Chairman)
Kenneth R. Fourcher
E. K. Linder

SUBCOMMITTEE ON CARCINOGENICITY

Kieffer Davis (Chairman)	R. C. Cole
Marshall Clinton	L. C. Beard, Jr.
L. E. Curtis	R. C. Mithoff
Robert E. Eckardt	R. M. Shepardson
F. D. Gassoway	R. M. Landon
C. H. Hine	L. C. Burroughs
E. K. Linder	R. D. Bent
M. N. Newquist	Allan E. Dooley
James W. Osborn	F. J. Sanders
B. B. Reeve	E. W. Adams
None	L. M. Henderson

SUBCOMMITTEE ON CUTTING FLUIDS

Leo J. Wade (Chairman)	Clyde Berry
F. F. Boys	F. M. Watkins
J. William Crookshank	L. N. Haugen
T. J. Kelly	J. R. Morrison
M. N. Newquist	Allan E. Dooley
B. B. Reeve	E. W. Adams
George M. Saunders	A. C. Pabst

SUBCOMMITTEE ON ECONOMIC POISONS

T. J. Kelly (Chairman)	J. R. Morrison
V. C. Baird	J. W. Hammond
E. P. Luongo	L. C. Beard, Jr.

MEMBERSASSOCIATESSUBCOMMITTEE ON EYE HAZARDS

(Discontinued as of January 1, 1953)

SUBCOMMITTEE ON FIRST AID

(Discontinued as of January 1, 1953)

SUBCOMMITTEE ON FLUORIDES

George M. Saunders (Chairman)	.....	A. C. Pabst
L. E. Curtis	.....	R. C. Mithoff
W. R. Levis	.....	W. H. Barcus
B. B. Reeve	.....	E. W. Adams

SUBCOMMITTEE ON MEDICAL POLICIES AND PRACTICES

Kenneth R. Fourcher (Chairman)
L. E. Curtis
T. J. Kelly
E. K. Linder
Robert Bell Lynn
E. Richmond Ware

SUBCOMMITTEE ON PHYSIOLOGY OF THE SKIN

Robert E. Eckardt (Chairman)
F. F. Boys
M. N. Newquist

SUBCOMMITTEE ON TOXICOLOGICAL REVIEWS

Marshall Clinton (Chairman)	.....	L. C. Beard, Jr.
V. C. Baird	.....	J. W. Hammond
Kieffer Davis	.....	R. C. Cole

MEDICAL ADVISORY COMMITTEE
OF THE
AMERICAN PETROLEUM INSTITUTE
(for 1953)

MEMBERS

T. M. Frank, M.D. (Chairman).....Pan American Refining Corporation
Texas City, Texas

George M. Saunders, M.D.(V.Chairman)Socony-Vacuum Oil Co., Inc.
26 Broadway, New York 4, New York

Marshall Clinton, M.D.(Secretary)..Socony-Vacuum Oil Co., Inc.
135 Linwood Ave., Buffalo 9, New York

W. O. Armstrong, M.D.....Continental Oil Co.
P.O.Drawer 1267, Ponca City, Okla.

V. C. Baird, M.D.....Humble Oil and Refining Co.
P. O. Box 2180, Houston 1, Texas

F. F. Boys, M.D.....Sinclair Refining Co.
P. O. Drawer 60, E. Chicago, Ind.

J. William Crookshank, M.D.....Cities Service Refining Corporation
716 Hodges St., Lake Charles, La.

L. E. Curtis, M.D.....Standard Oil Co. of California,
225 Bush St., San Francisco 20, Calif.

Kieffer Davis, M.D.....Phillips Petroleum Co.
Bartlesville, Oklahoma

Robert E. Eckardt, M.D.....Standard Oil Development Co., Medical
Research Division, P.O.Box 51, Linden,N

D. M. English, M.D.....Magnolia Petroleum Co.
Beaumont, Texas

Kenneth R. Fourcher, M.D.....Standard Oil Co.(New Jersey)
30 Rockefeller Plaza, New York 20, N.Y.

F. D. Gassoway, M.D.....Gulf Oil Corporation, P. O. Box 1166
Pittsburgh 30, Pennsylvania

C. H. Hine, M.D.....Shell Development Co., 4560 Horton St.,
Emeryville 8, California

Warren F. Kahle, M.D.....Eastern States Petroleum Co., Inc.
Box 5008 - Harrisburg Station
Houston 12, Texas

T. J. Kelly, M.D.....Shell Oil Co., P. O. Box 262,
Wood River, Illinois

W. R. Levis, M. D.....Sun Oil Co., 1608 Walnut St.
Philadelphia 3, Pennsylvania

E. K. Linder, M.D.....Atlantic Refining Co., 260 South
Broad St., Philadelphia 1, Pa.

E. P. Luongo, M.D.....General Petroleum Corporation,
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Los Angeles 54, California

Robert Bell Lynn, M.D.....Wood River Oil and Refining Co., Inc.
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New York 17, New York

James W. Osborn, M.D.....The Standard Oil Company (Ohio)
Midland Building, Cleveland 15, Ohio

R. C. Page, M.D.....Arabian American Oil Co., 505 Park Ave.
New York 22, New York

Alternate

Theodore E. Allen, M.D.....Arabian American Oil Co., 505 Park Ave.
New York 22, New York

B. B. Reeve, M.D.....Standard Oil Co. (Indiana), 910 South
Michigan Ave., Chicago 80, Ill.

John C. Ruddock, M.D.....Richfield Oil Corporation, Richfield
Building, Los Angeles 13, California

Leo J. Wade, M.D.....Esso Standard Oil Co., 15 West 51st St.
New York 19, New York

E. Richmond Ware, M.D.....Union Oil Co. of California, Room 309
Union Oil Building, Los Angeles 17, Cal

ASSOCIATES

E. W. Adams.....Research Dept., Standard Oil Co. (Indie
Whiting, Ind.

W. R. Argyle.....Sinclair Refining Co., 600 Fifth Ave.
New York 20, New York

W. H. Barcus.....Sun Oil Co., P. O. Box 426,
Marcus Hook, Pa.

L. C. Beard, Jr.....Socony-Vacuum Oil Co., Inc.
26 Broadway, New York 4, New York

R. D. Bent.....Atlantic Refining Co., 260 South
Broad St., Philadelphia 1, Pa.

Clyde Berry.....Esso Standard Oil Co., 15 West 51st St.
New York 20, New York

J. S.
J. S. Boylan.....Continental Oil Co.
Ponca City, Oklahoma

C. R. Brown.....Tide Water Associated Oil Co.
79 New Montgomery St., San Francisco 20

L. C. Burroughs.....Shell Oil Co., 50 West 50th St.,
New York 20, New York

R. C. Cole.....Phillips Petroleum Co. Chemical
Engineering Div., Bartlesville, Okla

Allan E. Dooley.....The Texas Co., 135 East 42nd St.
New York 17, N. Y.

R. S. Driver.....Atlantic Refining Co., 260 South
Broad St., Philadelphia 1, Pa.

Nelson J. Gothard.....Sinclair Refining Co.
Harvey, Illinois

J. W. Hammond.....Humble Oil and Refining Co.
Box 2180, Houston, Texas

L. N. Haugen.....Cities Service Oil Co.
Bartlesville, Okla.

L. M. Henderson.....The Pure Oil Co., Research and
Development Dept., Box G, Crystal Lake,
Illinois
C.K. Heunes, Richfield Oil Corp., 555 South Flower St., Los Angeles, Calif.

James E. Hill.....Union Oil Co. of California, 617 West
7th St., Los Angeles 17, California

E. W. Isom.....Sinclair Refining Co., 600 Fifth Ave.
New York 20, New York

R. M. Landon.....Gulf Oil Corp., P. O. Box 1166,
Pittsburgh 30, Pa.

D. W. Larmer.....Richfield Oil Corporation, 555 South
Flower St., Los Angeles 17, California

~~K. G. Mackenzie~~.....The Texas Co., 135 East 42nd St.,
L. C. Kemp, Jr. (see letter 9/18/53) New York 17, New York.

C. R. McKay.....Richfield Oil Corp., P.O. Box 787,
Wilmington, California

R. C. Mithoff.....California Research Corporation,
200 Bush St., San Francisco 4, Calif.

J. R. Morrison.....Shell Oil Co., 50 West 50th St.,
New York 20, New York

C. A. Neilson.....Continental Oil Co.
Ponca City, Okla.

A. C. Pabst.....Socony-Vacuum Oil Co., Inc.
26 Broadway, New York 4, New York

W. H. Price.....Cities Service, ^{Petroleum, Inc., 24} Wall Tower
J. D. Haney (see letter 9/18/53) New York 5, New York

R. B. Roaper.....Humble Oil and Refining Co.,
Box 2180, Houston 1, Texas

F. J. Sanders.....The Standard Oil Co. (Ohio)
Midland Building, Cleveland 15, Ohio

R. M. Shepardson.....Standard Oil Development Co.
P. O. Box 121, Linden, N.J.

F. M. Watkins.....Sinclair Research Laboratories, Inc.
400 East Sibley Boulevard, Harvey, Ill

H. D. Wilde.....Humble Oil and Refining Co.,
Box 2180, Houston 1, Texas

SUBCOMMITTEE ON CARCINOGENICITY

Kieffer Davis, M.D. (Chairman).....R. C. Cole

Marshall Clinton.....L. C. Beard, Jr.

L. E. Curtis.....R. C. Mithoff

Robert E. Eckardt.....R. M. Shepardson

F. D. Gassoway.....R. M. Landon

C. H. Hine.....L. C. Burroughs

E. K. Linder.....R. D. Bent

M. N. Newquist.....Allan E. Dooley

James W. Osborn.....F. J. Sanders

B. B. Reeve.....E. W. Adams

None.....L. M. Henderson

RESEARCH PROJECT MC-1 ADVISORY COMMITTEE

Robert E. Eckardt, M.D. (Chairman)

C. H. Hine, M.D.

E. K. Linder, M.D.

M. N. Newquist, M.D.

E. W. Adams, Ph.D.

L. C. Beard, Jr., Ph.D.

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None		<i>J. C. Burroughs</i>

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L. E. Curtis		R. C. Mithoff
Kieffer Davis		R. C. Cole
W. R. Levis		None
E. P. Luongo		None
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Robert Bell Lynn		None
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Kieffer Davis		R. C. Cole
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Dr. Hinton

AMERICAN PETROLEUM INSTITUTE

50 WEST 50TH STREET

NEW YORK 20, N. Y.

OFFICE OF THE PRESIDENT

November 16, 1951

To Members and Associates
Medical Advisory Committee

Gentlemen:

Dr. M. N. Newquist, Chairman of the Subcommittee on Carcinogenicity, has appointed the following persons to serve on the Research Project Advisory Committee to collaborate with Dr. Kehoe and his staff concerning the A.P.I. project on carcinogenicity:

F	M. N. Newquist, M.D. Chairman	C. H. Hine, M.D.	W
HW	E. W. Adams	✓ R. M. Landon	E
E	L. C. Beard, Jr.	E. K. Linder, M.D.	E
SW	Kieffer Davis, M.D.	K. G. Mackenzie	E
E	R. E. Eckardt, M.D.	✓ R. C. Mithoff	W
SW	T. M. Frank, M.D.	R. M. Shepardson	E

The RPA Committee has been made large enough to insure continuity of its work by an adequate working attendance and representation at its meetings. The RPA Committee does not replace the Subcommittee on Carcinogenicity.

A meeting of the RPA Committee will be held at the Kettering Laboratory in Cincinnati, Monday, November 26th commencing at 10:00 A.M. and continuing through Tuesday forenoon, November 27th, if necessary. Dr. Kehoe has tentatively reserved eight rooms at the Terrace Plaza Hotel. Committee members attending should notify the hotel at once as to time of arrival, indicating that the reservation had been made tentatively by Dr. Kehoe. Also notify Dr. Newquist whether or not you will attend the meeting.

Very truly yours,

D. V. Stroop
D. V. Stroop

AMERICAN PETROLEUM INSTITUTE

50 WEST 50TH STREET

NEW YORK 20, N. Y.

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

January 16, 1952

lioted
1/20/52
TE

To Members and Associates
of Medical Advisory Committee
and Its Standing Subcommittees

Gentlemen:

For the year 1952, Doctor E. K. Linder, Chairman, has appointed the Medical Advisory Committee's standing subcommittees as shown on the attached membership lists.

We hope each member and associate appointed to serve on one or more of the standing subcommittees will be able to take an active part in this important work. Your participation will be greatly appreciated.

If you cannot serve, kindly inform me at your early convenience.

Very truly yours,

D Stroop

DVS:c
Enclosure

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50 WEST 50TH STREET

NEW YORK 20, N. Y.

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

March 27, 1952

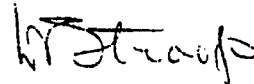
Mr. L. C. Burroughs
Shell Oil Company
50 West 50th Street
New York 20, New York

Dear Mr. Burroughs:

Doctor E. Kern Linder, Chairman, Medical Advisory Committee, has appointed you associate member of the Subcommittees on Atmospheric Pollutants, Carcinogenicity, Cutting Fluids, and Eye Hazards.

We hope you may find it possible to attend the meetings to be held in Cincinnati in April.

Very truly yours,



DVS:c

mc: Members and Associates,
Medical Advisory Committee

AMERICAN PETROLEUM INSTITUTE

50 WEST 30TH STREET

NEW YORK 20, N. Y.

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

March 27, 1952

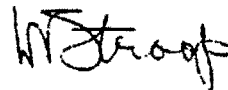
Kieffer Davis, M.D.
Ralph C. Cole, Ph.D.
Phillips Petroleum Company
Bartlesville, Oklahoma

Dear Doctors Davis and Cole:

Doctor E. Kern Linder, Chairman, Medical Advisory Committee, has appointed you to serve as member and associate, respectively, on the Subcommittee on Carcinogenicity.

We hope you may find it possible to attend the meetings to be held in Cincinnati in April.

Very truly yours,



DVS:c

cc: Dr. E. Kern Linder

mc: Members and Associates,
Medical Advisory Committee

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

DEPARTMENT OF TECHNICAL SERVICES
DAVID V. STROOP, DIRECTOR

March 13, 1952

Mr. L. C. Burroughs
Shell Oil Company
50 West 50th Street
New York 20, New York

Dear Mr. Burroughs:

Mr. John R. Suman, Chairman, Safety Committee
of the Board of Directors, has appointed you associate
member of the Medical Advisory Committee.

We hope you may be able to participate actively
in the important work of this committee.

Very truly yours,

DV Strop

DVS:c
MC: Members and Associates,
Medical Advisory Committee

AMERICAN PETROLEUM INSTITUTE

50 WEST 50TH STREET

NEW YORK 20, N. Y.

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

January 10, 1951

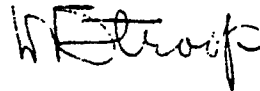
To Members and Associates
Medical Advisory Committee

Gentlemen:

Enclosed is 1951 roster of members and associates of the Medical Advisory Committee, as approved by John R. Suman, Chairman, Safety Committee of the Board of Directors.

We hope each of you will be able to serve and to take an active part in the committee work; if you cannot, please let me know at your early convenience.

Very truly yours,



DVS:c
Enclosure
mc: Safety Committee
of the Board of Directors

MEDICAL ADVISORY COMMITTEE
OF THE
AMERICAN PETROLEUM INSTITUTE
(FOR 1951)

MEMBERS

B. B. Reeve, M.D. (Chairman) Standard Oil Co. (Indiana), 910 South Michigan Ave., Chicago 80, Ill.

E. K. Linder, M.D. (Vice Chairman) ... The Atlantic Refining Co., 260 So. Broad St., Philadelphia 1, Pa.

Marshall Clinton, M.D. (Secretary) ... Socony-Vacuum Oil Co., Inc., 135 Linwood Ave., Buffalo 9, N.Y.

W. O. Armstrong, M.D. Continental Oil Co., Ponca City, Okla.

V. C. Baird, M.D. Humble Oil & Refining Co., P.O. Box 2180, Houston 1, Texas

F. F. Boys, M.D. Sinclair Refining Co., P.O. Drawer 60, East Chicago, Ind.

Wm. Crookshank, M.D. Cities Service Refining Corp., 716 Hodges St., Lake Charles, La.

L. E. Curtis, M.D. Standard Oil Co. of California, 225 Bush St., San Francisco 20, Calif.

Kieffer Davis, M.D. Phillips Petroleum Co., Bartlesville, Okla.

Robert E. Eckardt, M.D. *(see letter 2/1/51)* Standard Oil Development Company

D. M. English, M.D. Magnolia Petroleum Co., Beaumont, Texas

T. M. Frank, M.D. Pan American Refining Corp., Texas City, Texas

C. H. Hine, Dr. (ltr. 9/12/51) Shell Development Co., 4560 Horton St., Emeryville 8, Calif.

A. E. Hoag, M.D. retired 5/16/51... Socony-Vacuum Oil Co., Inc., 25 Broadway, New York 4, N.Y.

Dr. George M. Saunders

Dr. Kenneth R. Fourcher

~~XXXXXXXXXX~~ (as of letter 1/24/51) Standard Oil Co. (New Jersey), 30 Rockefeller Plaza, New York 20, N.Y.

Dr. Warren F. Kahle *(letter 9/26/51)* ~~Eastern States Pet. Company, Inc., 804 5008 - Harrisburg, Pa.~~

T. J. Kelly, M.D. Shell Oil Co., P.O. Box 262, Wood River, Ill. *Houston, Tex.*

W. R. Lewis, M.D. Sun Oil Co., 1608 Walnut St., Philadelphia 3, Pa.

James W. Long, M.D. Gulf Oil Corp., Port Arthur, Texas

E. P. Luongo, M.D. General Petroleum Corp., P.O. Box 2122, Terminal Annex, Los Angeles 54, Calif.

Robert Bell Lynn, M.D. Wood River Oil & Refining Co., Inc.,
1000 Washington Ave., Alton, Ill.

Clark R. Miller, M.D. Tide Water Associated Oil Co., 79 New
Montgomery St., San Francisco 20, Calif.

M. N. Newquist, M.D. The Texas Co., 135 East 42nd St.,
New York 17, N.Y.

R. C. Page, M.D. Arabian American Oil Co., 505 Park Ave.,
New York 22, N.Y.

Alternate
Theodore E. Allen, M.D. Arabian American Oil Co., 505 Park Ave.,
New York 22, N.Y.

Dr. John C. Ruddock Richfield Oil, Richfield Bldg., L.A. 13, C

Chas. A. Swan, M.D. The Standard Oil Co. (Ohio), Midland Bldg.,
Cleveland 15, Ohio

Edward Richmond Ware, M.D. Union Oil Co. of California, Room 309,
Union Oil Bldg., Los Angeles 14, Calif.

McIver Woody, M.D. (retired 3/5/51). Esso Standard Oil Co., 15 West 51st St.,
New York 19, N.Y.

Leo J. Wade, M.D. as of " same as above

ASSOCIATES

✓ E. W. Adams Research Dept., Standard Oil Co. (Indiana),
Whiting, Ind.

W. R. Argyle Sinclair Refining Co., 630 Fifth Ave.,
New York 20, N.Y.

✓ L. C. Beard, Jr. Socony-Vacuum Oil Co., Inc., 26 Broadway,
New York 4, N.Y.

✓ R. D. Bent The Atlantic Refining Co., 260 So. Broad
St., Philadelphia 1, Pa.

J. S. Boylan Continental Oil Co., Ponca City, Okla.

C. L. Brown Standard Oil Development Co., 15 West
51st St., New York 19, N.Y.

C. R. Brown Tide Water Associated Oil Co., 79 New
Montgomery St., San Francisco 20, Calif.

✓ R. C. Cole Phillips Petroleum Co., Box 968, Phillips,
Texas

L. C. Crockett Gulf Oil Corp., P.C. Box 1166,
Pittsburgh 30, Pa.

J. B. DeLaune Cities Service Refining Corp., 716 Hodges
St., Lake Charles, La.

T. E. DeVilliers Cities Service Oil Co., Box 718,
East Chicago, Ind.

Allan E. Dooley The Texas Co., 135 East 42nd St.,
New York 17, N.Y.

R. S. Driver The Atlantic Refining Co., 260 So. Broad
St., Philadelphia 1, Pa.

7 ✓ R. W. Faulk Shell Oil Co., 50 West 50th St.,
Goldsmith NY New York 20, N.Y.

✓ Nelson J. Gothard Sinclair Refining Co., Harvey, Ill.

L. M. Henderson The Pure Oil Co., Research & Development
Dept., Box G, Crystal Lake, Ill.

James E. Hill Union Oil Co. of California, 617 West 7th
St., Los Angeles 14, Calif.

E. W. Isom Sinclair Refining Co., 630 Fifth Ave.,
New York 20, N.Y.

✓ R. M. Landon Gulf Oil Corp., P.O. Box 1166,
Pittsburgh 30, Pa.

H. P. Lankelma see letter 4/2/51... The Standard Oil Co. (Ohio), Midland Bldg.,
✓ Dr. F. J. Sanders Cleveland 15, Ohio

D. W. Larmer Richfield Oil Corp., 555 So. Flower St.,
Los Angeles 17, Calif.

✓ K. G. Mackenzie The Texas Co., 135 East 42nd St.,
New York 17, N.Y.

C. R. McKay Richfield Oil Corp., P.O. Box 787,
Wilmington, Calif.

✓ R. C. Mithoff California Research Corp., 200 Bush St.,
San Francisco 20, Calif.

✓ J. R. Morrison (11/19/51) Shell Oil Company, 50 W. 50 St., N.Y. 20, N.Y.

✓ C. A. Neilson Continental Oil Co., Ponca City, Okla.

✓ W. H. Price Cities Service, 60 Wall Tower,
New York 5, N.Y.

R. B. Roaper Humble Oil & Refining Co., Box 2180,
Houston 1, Texas

✓ R. M. Shepardson Standard Oil Development Co., P.O. Box 121,
Linden, N.J.

F. M. Watkins Sinclair Refining Co., 400 East Sibley
Bldg., Harvey, Ill.

H. D. Wilde Humble Oil & Refining Co., Box 2180,
Houston 1, Texas

MEDICAL ADVISORY COMMITTEE
OF THE
AMERICAN PETROLEUM INSTITUTE
(for 1951)

MEMBERS

B.B. Reeve, M.D.(Chairman).....Standard Oil Co., of Ind.,
910 S. Michigan Ave., Chicago 80, Ill.

E. K. Linder, M.D.(V.Chairman)...Atlantic Refining Co., 260 S. Broad St.,
Philadelphia 1, Pennsylvania

Marshall Clinton, M.D.(Sec.).....Socony-Vacuum Oil Co., Inc.,
135 Linwood Ave., Buffalo 9, N.Y.

W. O. Armstrong, M.D.....Continental Oil Company
Ponca City, Oklahoma

V.C. Baird, M.D.....Humble Oil and Refining Co.,
P.O. Box 2180, Houston 1, Texas

F.F. Boys, M.D.....Sinclair Refining Co., P.O. Drawer 60,
East Chicago, Ind.

Wm. Crookshank, M.D.....Cities Service Refining Corp.,
716 Hodges St., Lake Charles, La.

L. E. Curtis, M.D.....Standard Oil Co.,(California)
225 Bush St., San Francisco 20, Calif.

Kieffer Davis, M.D.....Phillips Petroleum Co.,
Bartlesville, Oklahoma.

Robert E. Eckardt, M.D.(2/1/51)...Std. Oil Dev. Co., Medical Research Div.

D.M. English, M.D.....Magnolia Petroleum Company,
Beaumont, Texas

T.M. Frank, M.D.....Pan American Refining Corp.,
Texas City, Texas

A.E. Hoag, M.D. Retired 5/16/51...Socony-Vacuum Oil Co., Inc.
26 Broadway, New York 4, N.Y.

Dr. George M. Saunders
Dr. C.H. Hume (letter 9/12/51) Shell Development Co., 4560 Horton St., Emeryville, Cal.

K.R. Fourcher, M.D.*.....Standard Oil Co. of N.J.
(see letter 1/24/51) 30 Rockefeller Plaza, N.Y. 20, N.Y.

Dr. Warren F. Kahle, M.D. (9/26/51) Eastern States Pet. Co., Inc., Box 5088, Harrisburg, Pa.

T.J. Kelly, M.D.....Shell Oil Company
P.O.Box 262, Wood River, Ill.

W. R. Levis, M.D.....Sun Oil Company, 1608 Walnut St.,
Philadelphia 3, Pa.

James W. Long, M.D.....Gulf Oil Corp., Port Arthur, Texas

E.P. Luongo, M.D.....General Petroleum Corp., P.O. Box 2122,
Terminal Annex, Los Angeles 54, Calif.

* Succeeds Dr. J. P. Holt

MEDICAL ADVISORY COMMITTEE

Page 2

Robert Bell Lynn, M.D.....Wood River Oil and Refining Co., Inc.,
1000 Washington Ave., Alton, Ill.

Clark R. Miller, M.D.....Tide Water Associated Oil Company,
79 New Montgomery St., San Francisco 20,

M. N. Newquist, M.D.....The Texas Co., 135 East 42nd St.,
New York 17, N.Y.

R. C. Page, M.D.....Arabian American Oil Co.,
505 Park Ave., New York 22, N.Y.

Alternate
Theodore E. Allen, M.D.....Arabian American Oil Co.,
505 Park Ave., New York 22, N.Y.

H. C. Ruddock, Dr.Richfield Oil Corp., Richfield Bldg., LA,
~~Chas. A. Swan, M.D.~~
Dr. O. Albert James W. The Standard Oil Co., (Ohio)
Midland Bldg., Cleveland 15, Ohio

Edward Richmond Ware, M.D.....Union Oil Co., of California,
Room 309, Union Oil Bldg., Los Angeles 14.

McIver Woody, M.D. ~~Resigned 3/5/51~~ Esso Standard Oil Co., 15 W. 51st St.
New York 19, New York

Leo J. Wade, M.D. as of " Same as above

ASSOCIATES

E. W. Adams, Dr.....Research Dept., Standard Oil of Ind.,
Whiting, Indiana.

W. R. Argyle.....Sinclair Refining Co., 630 5th Ave.,
New York 20, New York

L. C. Beard, Jr., Dr.....Socony-Vacuum Oil Co., Inc.,
26 Broadway, New York 4, N.Y.

R. D. Bent.....Atlantic Refining Co., 260 S. Broad St.,
Philadelphia 1, Pa.

J. S. Boylan.....Continental Oil Company,
Ponca City, Oklahoma

C. L. Brown, Dr.....Standard Oil Development Co. of N.J.,
15 W. 51st Street, New York 19, N.Y.

C. R. Brown.....Tide Water Associated Oil Company,
79 New Montgomery St., San Francisco 20,

R. C. Cole.....Phillips Petroleum Company,
Box 968, Phillips, Texas

L. O. Crockett.....Gulf Oil Corp., P.O. Box 1166,
Pittsburgh 30, Pa.

J. B. DeLaune.....Cities Service Refining Corp.,
716 Hodges St., Lake Charles, La.

MEDICAL ADVISORY COMMITTEE

Page 3

T. E. DeVilliers.....Cities Service Oil Co., Box 718,
East Chicago, Indiana

Allan E. Dooley.....Texas Co., 135 E. 42nd Street,
New York 17, N.Y.

R. S. Driver.....Atlantic Refining Company,
260 S. Broad St., Phil. 1, Pa.

R. W. Faulk.....Shell Oil Company
50 W. 50th St., New York 20, N.Y.

Nelson J. Gothard.....Control Laboratory, Sinclair Refining Co.
Harvey, Ill.

L. M. Henderson, Dr.....Pure Oil Co., Research and Development
Dept., Box G, Crystal Lake, Ill.

James E. Hill.....Union Oil Co. of California,
617 W. 7th St., Los Angeles 14, Calif.

E. W. Isom.....Sinclair Refining Co., 630 5th Ave.,
New York 20, New York

R. M. Landon.....Gulf Oil Corp., P.O. Box 1166,
Pittsburgh 30, Pa.

H. P. Lankelma.....*(Letter 4/2/51)* Consultant, Standard of Ohio
2127 Cornell Rd., Cleveland 15, Ohio
Succeeded By: Dr. F.J. Sanders
Standard Oil of Ohio, Midland Bldg., Cleveland 15, Ohio

Dr. W. Larmer.....Richfield Oil Corp., 555 S. Flower St.,
Los Angeles 17, California

K. G. Mackenzie.....The Texas Company, 135 E. 42nd St.,
New York 17, N.Y.

C.R. McKay.....Richfield Oil Corp., P.O. Box 787,
Wilmington, California

R. C. Mithoff.....California Research Corp., 200 Bush St.,
San Francisco 20, California
J.R. Morrison (11/19/51) *Shell Oil, 50 W. 50th St. N.Y. 20, N.Y.*

C. A. Neilson, Dr.,.....Continental Oil Company,
Ponca City, Oklahoma

W. H. Price.....Cities Service, 60 Wall Tower,
New York 5, New York

R. B. RoaperHumble Oil and Refining Corporation, Box 2180, Houston 1, Texas

R. M. Shepardson.....Standard Oil Development Co. N.J.,
P.O. Box 121, Linden, N.J.

MEDICAL ADVISORY COMMITTEE

Page 4

F. W. Watkins.....Sinclair Refining Co.,
400 E. Sibley Bldg., Harvey, Ill.

H. D. Wilde.....Humble Oil and Refining Company,
Box 2180, Houston 1, Texas

STANDING SUBCOMMITTEES
OF THE
MEDICAL ADVISORY COMMITTEE
AMERICAN PETROLEUM INSTITUTE
(FCR 1951)

MEMBERS

ASSOCIATES

SUBCOMMITTEE ON CARCINOGENICITY

M. N. Newquist (<u>Chairman</u>)	.....	Allan E. Dooley - K. G. Mackenzie
Marshall Clinton	.....	None
L. E. Curtis	.....	R. C. Mithoff ✓
Kenneth R. Fourcher	.....	R. M. Shepardson
T. M. Frank	.....	None
A. E. Hoag	.....	L. C. Beard, Jr.
T. J. Kelly	.....	R. W. Faulk
W. R. Levis	.....	None
James W. Long	.....	L. O. Crockett - R. M. Landon
Clark R. Miller	.....	C. R. Brown
B. B. Reeve	.....	E. W. Adams ✓
*Chas. A. Swan Deceased	.....	H. P. Lankelma
McIver Woody	.....	C. L. Brown
* Dr. James W. Osborn (ltr 9-4-51)		

SUBCOMMITTEE ON CUTTING FLUIDS

F. F. Boys (<u>Chairman</u>)	.....	W. R. Argyle - N. J. Gothard - E. W. Isom - F. M. Watkins
J. W. Crookshank	.....	J. B. DeLaune - T. E. DeVilliers - W. H. Price
T. J. Kelly	.....	R. W. Faulk
E. P. Luongo	.....	L. C. Beard, Jr.
M. N. Newquist	.....	Allan E. Dooley - K. G. Mackenzie
B. B. Reeve	.....	E. W. Adams

SUBCOMMITTEE ON ECONOMIC POISONS

T. J. Kelly (<u>Chairman</u>)	.....	R. W. Faulk
V. C. Baird	.....	R. B. Roaper - H. D. Wilde
Kenneth R. Fourcher	.....	R. M. Shepardson
A. E. Hoag	.....	L. C. Beard, Jr.
E. P. Luongo	.....	None
McIver Woody	.....	C. L. Brown

SUBCOMMITTEE ON EYE HAZARDS

Kieffer Davis (<u>Chairman</u>)	.....	R. C. Cole
W. C. Armstrong	.....	J. S. Boylan - C. A. Neilson
F. F. Boys	.....	W. R. Argyle - N. J. Gothard - E. W. Isom - F. M. Watkins
Marshall Clinton	.....	L. C. Beard, Jr.
B. B. Reeve	.....	E. W. Adams
None	.....	R. M. Landon
None	.....	K. G. Mackenzie

MEMBERSASSOCIATESSUBCOMMITTEE ON FIRST AID

T. M. Frank (Chairman) None
E. K. Linder R. D. Bent - R. S. Driver
James W. Long L. O. Crockett - R. M. Landon
M. N. Newquist Allan E. Dooley - K. G. Mackenzie
McIver Woody C. L. Brown - R. M. Shepardson

SUBCOMMITTEE ON FLUCRIDES

A. E. Hoag (Chairman) *Dr. J. M. Saunders (6-20-51)*
F. F. Boys L. C. Beard, Jr.
..... W. R. Argyle - N. J. Gothard - E. W. Isom -
..... F. M. Watkins
L. E. Curtis R. C. Mithoff
Kieffer Davis R. C. Cole
W. R. Lewis None
E. P. Luongo None
Robert Bell Lynn None
B. B. Reeve E. W. Adams

SUBCOMMITTEE ON MEDICAL POLICIES AND PRACTICES

L. E. Curtis (Chairman) R. C. Mithoff
T. J. Kelly R. W. Faulk
E. K. Linder R. D. Bent - R. S. Driver
Robert Bell Lynn None
Edward Richmond Ware James E. Hill

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Marshall Clinton (Chairman) L. C. Beard, Jr.
V. C. Baird R. B. Rasper - H. D. Wilde
Kieffer Davis R. C. Cole
T. M. Frank None
E. K. Linder R. D. Bent - R. S. Driver
M. N. Newquist Allan E. Dooley - K. G. Mackenzie

AMERICAN PETROLEUM INSTITUTE

50 WEST 50TH STREET

NEW YORK 20, N. Y.

DEPARTMENT OF TECHNICAL SERVICES
DAVID V. STROOP, DIRECTOR

July 2, 1951

To Members and Associates
API Medical Advisory Committee

Gentlemen:

Pursuant to action taken at the Thirteenth Meeting of the Medical Advisory Committee, Doctor B. B. Reeve, Chairman, has appointed a Subcommittee on Atmospheric Pollutants with membership as follows:

<u>MEMBERS</u>	<u>ASSOCIATES</u>
E. P. Luongo (Chairman)	L. C. Beard, Jr.
V. C. Baird	H. D. Wilde
J. W. Crookshank	W. H. Price
R. E. Eckardt	R. M. Shepardson
J. W. Long	R. M. Landon
M. N. Newquist	A. E. Dooley
E. R. Ware	J. E. Hill

If any of those appointed find it impossible to serve they are requested to communicate with Doctor Reeve without delay.

Very truly yours,

W. Stroop

DVS:c

MEDICAL ADVISORY COMMITTEE
OF THE
AMERICAN PETROLEUM INSTITUTE
(FOR 1950)

MEMBERS

Kieffer Davis, M.D. (<u>Chairman</u>)	Phillips Petroleum Co., Bartlesville, Okla.
B. B. Reeve, M.D. (<u>Vice Chairman</u>)	Standard Oil Co. (Indiana), 910 South Michigan Ave., Chicago 80, Ill.
Marshall Clinton, M.D. (<u>Secretary</u>) ...	Socony-Vacuum Oil Co., Inc., 135 Linwood Ave., Buffalo 9, N. Y.
W. O. Armstrong, M.D.	Continental Oil Co., Ponca City, Okla.
V. C. Baird, M.D.	Humble Oil & Refining Co., P.O. Box 2180, Houston 1, Texas
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A. E. Hoag, M.D.	Socony-Vacuum Oil Co., Inc., 26 Broadway, New York 4, N. Y.
Dr. R. E. Eckardt XXXXXXXXXXXX (5/31/50).....	Standard Oil Co. (New Jersey), 30 Rockefeller Plaza, New York 20, N. Y.
T. J. Kelly, M.D.	Shell Oil Co., P.O. Box 262, Wood River, Ill.
W. R. Levis, M.D.	Sun Oil Co., 401 East Broad St., Chester, Pa. 1608 Walnut St., Philadelphia 3,
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Clark R. Miller, M.D.	Tide Water Associated Oil Co., 79 New Montgomery St., San Francisco 20, Calif.

Edward Richmond Ware, M.D. Room 309, Union Oil Bldg.,
~~W-A-Merrison, M.D.~~ ~~Union Oil Co. of California, 1307 Pacific~~
 Mutual Bldg., 523 West Sixth St.,
 Los Angeles 14, Calif.

M. N. Newquist, M.D. The Texas Co., 135 East 42nd St.,
 New York 17, N. Y.

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 Texas

L. O. Crockett P.O. Box 1166, Pittsburgh 30, Pa.
 Gulf Oil Corp., ~~P.O. Box 701, Port Arthur,~~
 Texas

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R. W. Faulk Shell Oil Co., 50 West 50th St.,
 New York 20, N. Y.

R. D. Bent

~~Hugh W. Field~~ The Atlantic Refining Co., 260 South Broad
 St., Philadelphia 1, Pa.

C. L. Brown

~~Er. G. M. Fischer~~ Standard Oil Development Co.,
 15 West 51st St., New York 19, N. Y.

Nelson J. Gothard Sinclair Refining Co., Harvey, Ill.

L. M. Henderson	The Pure Oil Co., 35 East Wacker Drive, Chicago 1, Ill.
James E. Hill	Union Oil Co. of Calif., 617 W. 7th St., Los Angeles
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H. P. Lankelma	The Standard Oil Co. (Ohio), Midland Bldg., Cleveland 15, Ohio
D. W. Larmer	Richfield Oil Corp., Richfield Bldg., Los Angeles 13, Calif.
K. G. Mackenzie	The Texas Company, 135 East 42nd St., New York 17, N. Y.
C. R. McKay	Richfield Oil Corp., P.O. Box 787, Wilmington, Calif.
C. A. Neilson	Continental Oil Co., Ponca City, Okla. Cities Service
W. H. Price	Petroleum-Advisers, Inc., 60 Wall Tower, New York 5, N. Y.
R. B. Raper	Humble Oil & Refining Co., Box 2180, Houston 1, Texas
R. M. Shepardson	Standard Oil Development Co., P.O. Box 243, Elizabeth-2, N. J. Linden,
F. M. Watkins	Sinclair Refining Co., 400 East Sibley Bldg., Harvey, Ill.
H. D. Wilde	Humble Oil & Refining Co., Box 2180, Houston 1, Texas

STANDING SUBCOMMITTEES
OF THE
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AMERICAN PETROLEUM INSTITUTE
(FOR 1950)

MEMBERS

ASSOCIATES

SUBCOMMITTEE ON MEDICAL POLICIES AND PRACTICES

L. E. Curtis (<u>Chairman</u>)	.....	None
T. J. Kelly	.....	R. W. Faulk
E. K. Linder	.....	R. S. Driver - R. D. Bent
Robert Bell Lynn	.....	None
W. A. Morrison (discontinued)	.....	None

SUBCOMMITTEE ON CUTTING FLUIDS

B. B. Reeve (<u>Chairman</u>)	.....	E. W. Adams
F. F. Boys	.....	W. R. Argyle - N. J. Gothard - E. W. Isom - F. M. Watkins
J. W. Crookshank	.....	J. B. DeLaune - T. E. DeVilliers - W. H. Price
T. J. Kelly	.....	R. W. Faulk
E. P. Luongo	.....	L. C. Beard, Jr.
M. N. Newquist	.....	Allan E. Dooley - K. G. Mackenzie

SUBCOMMITTEE ON CARCINOGENICITY

✓ McIver Woody (<u>Chairman</u>)	.....	H. G. M. Fischer	<i>Res. 10-5-50</i>	<i>Landon</i>
Marshall Clinton	.....	None	<i>by Dr. C. F. Brown</i>	<i>Chambers</i>
○ L. E. Curtis	.....	None		<i>Crockett</i>
✓ T. M. Frank	.....	None		<i>Hickman</i>
✓ A. E. Hoag	.....	L. C. Beard, Jr.		<i>Reese</i>
✓ J. P. Holt	.....	R. M. Shepardson	✓	<i>Bent</i>
✓ T. J. Kelly	.....	R. W. Faulk	✓	<i>Linder</i>
✓ W. R. Levis	.....	None		<i>Wannick</i>
✓ M. N. Newquist	.....	Allan E. Dooley	○	
○ Chas. A. Swan	.....	H. P. Lankelma	✓	

SUBCOMMITTEE ON PERMISSIBLE CONCENTRATIONS

V. C. Baird (<u>Chairman</u>)	.....	R. B. Roaper - H. D. Wilde
W. O. Armstrong	.....	C. A. Neilson
<u>Marshall Clinton</u>	.....	L. C. Beard, Jr.
Kieffer Davis	.....	R. C. Cole
D. M. English	.....	None
T. M. Frank	.....	None
<u>J. P. Holt</u>	.....	H. G. M. Fischer
E. K. Linder	.....	R. S. Driver - R. D. Bent
J. W. Long	.....	L. O. Crockett - R. M. Landon
M. N. Newquist	.....	Allan E. Dooley
		K. G. Mackenzie

Letter 5/31/50 D.V.S.
** Allen E. Dooley, (Texas Co.)*
replaces Dr. J. P. Holt,
resigned, as API repre-
sentative on Sectional Com-
on Allowable Conc. of Toxi-
cants and Gases, Z. 37.
Dr. M. Clinton continues
as alternate.

apptd. letter
2/16/50

{ apptd. Associates
{ letter 2/16/50

MEMBERSASSOCIATESSUBCOMMITTEE ON FLUORIDES

A. E. Hoag (Chairman) L. C. Beard, Jr.
F. F. Boys W. R. Argyle - N. J. Gothard - E. W. Isom -
F. M. Watkins
L. E. Curtis None
Kieffer Davis R. C. Cole
W. R. Levis None
E. P. Luongo None
Robert Bell Lynn None
B. B. Reeve E. W. Adams

EDITORIAL SUBCOMMITTEE

Dr. Marshall Clinton replaced
chairman ~~Dr. J. F. Holt~~ (Chairman) *Resigned*
as per letter Dr. V. C. Baird (Vice Chairman)
5/31/50. D.V.S. Dr. A. O. Seeler
Dr. Kieffer Davis (Ex Officio)
Mr. D. V. Stroop (Ex Officio)

instead

AMERICAN PETROLEUM INSTITUTE

50 WEST 30TH STREET

NEW YORK 20, N. Y.

June 9, 1950

To Members and Associates
API Medical Advisory Committee

Gentlemen:

Pursuant to action taken at the Eleventh Meeting of the Medical Advisory Committee, Doctor Kieffer Davis, Chairman, has appointed three special subcommittees, as follows:

MEMBERS

ASSOCIATES

SUBCOMMITTEE ON FIRST AID

M. N. Newquist (Chairman) Allan E. Dooley - K. G. Mackenzie
E. K. Linder R. D. Bent - R. S. Driver
J. W. Long L. O. Crockett - R. M. Landon
McIver Woody H. G. M. Fischer - R. M. Shepardson

Res. 10-5-50 D.V.C.L. Brown
SUBCOMMITTEE ON EYE HAZARDS

F. F. Boys (Chairman) W. R. Argyle - N. J. Gothard -
E. W. Isom - F. M. Watkins
W. O. Armstrong J. S. Boylan - C. A. Neilson
Marshall Clinton L. C. Beard, Jr.
B. B. Reeve E. W. Adams

*R.M. Landon + K.G. Mackenzie (associates to B.B. Reeve)
(see letter 7/5/50)*

SUBCOMMITTEE ON ECONOMIC POISONS

T. J. Kelly (Chairman) R. W. Faulk
V. C. Baird R. B. Roaper - H. D. Wilde
A. E. Hoag L. C. Beard, Jr.
J. P. Holt H. G. M. Fischer (*Res. 10-5-50 D.V.C.L. Brown*)
E. P. Luongo None
McIver Woody R. M. Shepardson

If any of those appointed find it impossible to serve they are requested to communicate with Doctor Davis without delay.

Very truly yours,

D. V. Stroop
D. V. Stroop

DVS:d

AMERICAN PETROLEUM INSTITUTE

50 WEST 50TH STREET

NEW YORK 20, N. Y.

January 27, 1950

To Members and Associates
of Medical Advisory Committee
and Its Standing Subcommittees

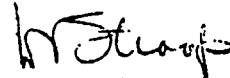
Gentlemen:

For the year 1950, Doctor Kieffer Davis, Chairman, has appointed the Medical Advisory Committee's standing subcommittees as shown on the attached membership lists.

We hope each member and associate appointed to serve on one or more of the standing subcommittees will be able to take an active part in this important work. Your participation will be greatly appreciated.

If you cannot serve, kindly inform me at your early convenience.

Very truly yours,


D. V. Stroop

DVS:d

Enclosure

cc: Messrs. B. H. Markham
John W. Frey
W. T. Gunn
H. B. Miller
J. E. Moss
Lacey Walker
C. A. Young

MEDICAL ADVISORY COMMITTEE
OF THE
AMERICAN PETROLEUM INSTITUTE
(FOR 1950)

MEMBERS

Kieffer Davis, M.D. (Chairman) Phillips Petroleum Co., Bartlesville, Okla.

B. B. Reeve, M.D. (Vice Chairman) Standard Oil Co. (Indiana), 910 South Michigan Ave., Chicago 80, Ill.

Marshall Clinton, M.D. (Secretary) ... Socony-Vacuum Oil Co., Inc., 135 Linwood Ave., Buffalo 9, N. Y.

W. O. Armstrong, M.D. Continental Oil Co., Ponca City, Okla.

V. C. Baird, M.D. Humble Oil & Refining Co., P.O. Box 2180, Houston 1, Texas

F. F. Boys, M.D. Sinclair Refining Co., P.O. Drawer 60, East Chicago, Ind.

Wm. Crookshank, M.D. Cities Service Refining Corp., 716 Hodges St., Lake Charles, La.

L. E. Curtis, M.D. Standard Oil Co. of California, 225 Bush St. San Francisco 20, Calif. or P.O. Box 3495

D. M. English, M.D. Magnolia Petroleum Co., Beaumont, Texas

T. M. Frank, M.D. Pan American Refining Corp., Texas City, Texas

A. E. Hoag, M.D. Socony-Vacuum Oil Co., Inc., 26 Broadway, New York 4, N. Y.

~~J. P. Holt, M.D.~~ *Resigned - see letters Committee 5/31/50* ~~Standard Oil Co. (New Jersey), 30 Rockefeller Plaza, New York 20, N. Y.~~

T. J. Kelly, M.D. Shell Oil Co., P.O. Box 262, Wood River, Ill.

W. R. Levis, M.D. Sun Oil Co., 401 East Broad St., Chester, Pa. (also - 1608 Walnut - 6th fl. Phil., Pa. (Sun Oil Bldg.)) K I 6-1600

E. K. Linder, M.D. The Atlantic Refining Co., 260 So. Broad St., Philadelphia 1, Pa.

J. W. Long, M.D. Gulf Oil Corp., Port Arthur, Texas

E. P. Luongo, M.D. General Petroleum Corp., P.O. Box 2122, Terminal Annex, Los Angeles 54, Calif.

Robert Bell Lynn, M.D. Wood River Oil & Refining Co., Inc., 1000 Washington Ave., Alton, Ill.

Clark R. Miller, M.D. - Tide Water Associated Oil Co., (re letter 7/28/50) 79 New Montgomery St., San Francisco 20, Calif.

MEDICAL ADVISORY COMMITTEE

Deceased Replaced by *Edward Richard Ware, M.D.; Room 309, Union Oil Bldg., Los Angeles 14, Calif.* Page 2

○ *W. A. Morrison, M.D.* Union Oil Co. of California, 1307 Pacific Mutual Bldg., 523 West Sixth St., Los Angeles 14, Calif.

M. N. Newquist, M.D. The Texas Co., 135 East 42nd St., New York 17, N. Y.

upheld 3/19/50 R. C. Page, M.D. Arabian American Oil Co., 505 Park Ave., New York 22, N. Y. (Calif. address: 200 Bush St., San Francisco 4, Calif.)
(Alternate - Dr. T. E. Allen)

Chas. A. Swan, M.D. The Standard Oil Co. (Ohio), Midland Bldg., Cleveland 15, Ohio

McIver Woody, M.D. Esso Standard Oil Co., 15 West 51st St., New York 19, N. Y.

ASSOCIATES

E. W. Adams Research Dept., Standard Oil Co. (Indiana), Whiting, Ind.

(letter 3/19/50) T. E. Allen, M.D. - *Arabian American*

○ W. R. Argyle Sinclair Refining Co., 630 Fifth Ave., New York 20, N. Y.

upheld letter 2/16/50 L. C. Beard, Jr. (Ph.D.) Socony-Vacuum Oil Co., Inc., 26 Broadway, New York 4, N. Y.
J. S. Boylan Continental Oil Co., Ponca City, Oklahoma.

○ C. R. Brown Tide Water Associated Oil Co., 79 New Montgomery St., San Francisco 20, Calif.

R. C. Cole Phillips Petroleum Co., Box 968, Phillips, Texas

○ L. O. Crockett Gulf Oil Corp., *Pittsburg Pa* ~~P.O. Box 701, Port Arthur, Texas~~

○ J. B. DeLaune Cities Service Refining Corp., 716 Hodges St., Lake Charles, La.

○ T. E. DeVilliers Cities Service Oil Co., Box 718, East Chicago, Ind.

Allan E. Dooley The Texas Co., 135 East 42nd St., New York 17, N. Y.

○ R. S. Driver The Atlantic Refining Co., 260 South Broad St., Philadelphia 1, Pa.

○ R. W. Faulk Shell Oil Co., 50 West 50th St., New York 20, N. Y.

○ Hugh W. Field The Atlantic Refining Co., 260 South Broad St., Philadelphia 1, Pa.

H. G. M. Fischer (Res. 10-5-50) Standard Oil Development Co., 15 West 51st St., New York 19, N. Y.
Dr. C. L. Brown

Mr. Nelson J. Gothard Sinclair Refining Co., Harvey, Ill.

L. M. Henderson The Pure Oil Co., 35 East Wacker Drive,
Chicago 1, Ill.

* James E. Hill.....Union Oil Company

E. W. Isom Sinclair Refining Co., 630 Fifth Ave.,
New York 20, N. Y.

R. M. Landon Gulf Oil Corp., P.O. Box 1166, OK
Pittsburgh 30, Pa.

Prof. H. P. Lankelma *(Consultant)*..... The Standard Oil Co. (Ohio), Midland Bldg.,
2127 Cornell Rd.
Cleveland 6, O. Cleveland 15, Ohio

D. W. Larmer Richfield Oil Corp., Richfield Bldg.,
Los Angeles 13, Calif.

apptd. letter J. W. Long, M.D. Gulf Oil Corporation, Port Arthur, Texas.
5/29/50

K. G. Mackenzie The Texas Company, 135 East 42nd St.,
New York 17, N. Y.

C. R. McKay Richfield Oil Corp., P.O. Box 787,
Wilmington, Calif.

C. A. Neilson *P.h.D.* Continental Oil Co., Ponca City, Okla.

C W. H. Price *(Division of Cities Service)* Petroleum Advisers, Inc., 60 Wall Tower,
J.W. Griswold New York 5, N. Y. *(Technical Services)*

R. B. Roaper Humble Oil & Refining Co., Box 2180,
Houston 1, Texas

R. M. Shepardson Standard Oil Development Co., P.O. Box ~~243~~ ¹²¹,
Elizabeth ~~N.~~, N. J.
Linden,

C F. M. Watkins Sinclair Refining Co., 400 East Sibley
Bldg., Harvey, Ill.

H. D. Wilde Humble Oil & Refining Co., Box 2180,
Houston 1, Texas

* James E. Hill.....Union Oil Company of California
(See letter 8/10/50) 617 West 7th Street
Los Angeles 14, California

AMERICAN PETROLEUM INSTITUTE

50 WEST 30TH STREET

NEW YORK 20, N. Y.

February 17, 1949

*dist. filed in
Dr. Horton's brief case*
DEPARTMENT OF SAFETY

To Members and Associates
of Medical Advisory Committee
and its Standing Subcommittees

Gentlemen:

For the year 1949, Doctor A. E. Hoag,
Chairman, has appointed the Medical Advisory Committee's
standing subcommittees as shown on the attached membership
lists.

We hope each member and associate
appointed to serve on one or more of the standing sub-
committees will be able to take an active part in the work.
If you cannot serve, kindly inform me at your early
convenience.

Very truly yours,

D. V. Stroop
D. V. Stroop

DVS:d

Enclosure

mc: William R. Boyd, Jr.

John W. Frey

W. T. Gunn

B. H. Markham

H. B. Miller

J. E. Moss

Lacey Walker

C. A. Young

STANDING SUBCOMMITTEES
OF THE
MEDICAL ADVISORY COMMITTEE
AMERICAN PETROLEUM INSTITUTE
(FOR 1949)

MEMBERS

ASSOCIATES

SUBCOMMITTEE ON MEDICAL POLICIES AND PRACTICES

L. E. Curtis (<u>Chairman</u>)	None
W. W. Brooks	R. C. Cole
T. J. Kelly	H. H. Zuidema
E. K. Linder	R. S. Driver - Hugh W. Field
W. A. Morrison	None

SUBCOMMITTEE ON CUTTING FLUIDS

B. B. Reeve (<u>Chairman</u>)	E. W. Adams
F. F. Boys	W. R. Argyle - N. J. Gothard - E. W. Isom - F. M. Watkins
Harold E. Fraser	C. R. Brown
T. J. Kelly	H. H. Zuidema
E. P. Luongo	L. C. Beard, Jr.
M. N. Newquist	A. E. Dooley - K. G. Mackenzie

SUBCOMMITTEE ON CARCINOGENICITY

✓ McIver Woody (<u>Chairman</u>)	R. S. Bonsib
✓ Marshall Clinton	L. C. Beard, Jr.
✓ L. E. Curtis	None
✓ T. M. Frank	None
✓ J. P. Holt	H. G. M. Fischer
✓ T. J. Kelly	H. H. Zuidema
W. R. Levis	None
✓ M. N. Newquist	A. E. Dooley - K. G. Mackenzie
Chas. A. Swan	H. P. Lankelma

SUBCOMMITTEE ON PERMISSIBLE CONCENTRATIONS

V. C. Baird (<u>Chairman</u>)	R. B. Roaper - H. D. Wilde
W. O. Armstrong	None
Marshall Clinton	L. C. Beard, Jr.
Kieffer Davis	R. C. Cole
D. M. English	None
T. M. Frank	None
J. P. Holt	R. S. Bonsib - H. G. M. Fischer
E. K. Linder	R. S. Driver - Hugh W. Field
J. W. Long	L. O. Crockett - R. M. Landon

SUBCOMMITTEE ON FLUORIDES

Kieffer Davis (<u>Chairman</u>)	R. C. Cole
F. F. Boys	W. R. Argyle - N. J. Gothard - E. W. Isom - F. M. Watkins
L. E. Curtis	None
W. R. Levis	None
E. P. Luongo	L. C. Beard, Jr.
B. B. Reeve	E. W. Adams

EDITORIAL SUBCOMMITTEE

Dr. J. P. Holt (Chairman)
Dr. V. C. Baird (Vice Chairman)
Dr. A. O. Seeler
Dr. A. E. Hoag (Ex Officio)
Mr. D. V. Stroop (Ex Officio)

2-17-49

MEDICAL ADVISORY COMMITTEE
OF THE
AMERICAN PETROLEUM INSTITUTE
(FOR 1949)

1949

MEMBERS

- ✓ A. E. Hoag, M.D. (Chairman) Socony-Vacuum Oil Co., Inc., 26 Broadway,
New York 4, N.Y.
- ✓ Kieffer Davis, M.D. (Vice Chairman) .. Phillips Petroleum Co., Bartlesville, Okla. ✓
- ✓ J. P. Holt, M.D. (Secretary) Standard Oil Co. (New Jersey),
30 Rockefeller Plaza, New York 20, N.Y.
- ✓ W. O. Armstrong, M.D. Continental Oil Co., Ponca City, Okla. ✓
- ✓ V. C. Baird, M.D. Humble Oil & Refining Co., P.O. Box 2180, ✓
Houston 1, Texas
- ✓ F. F. Boys, M.D. Sinclair Refining Co., P.O. Drawer 60,
E. Chicago, Ind.
- ✓ W. W. Brooks, M.D. Phillips Petroleum Co., Box 808, Phillips, ✓
Texas
- Marshall Clinton Socony Vac., Buffalo.
- 24 ✓ E. E. Curtis, M.D. Standard Oil Co. of California, 225 Bush St.,
appd. San Francisco 20, Calif.
- 9/7/49 Dr. Wm Crookshank Cities Service Refining Corp., 716 Hodges St., Lake Charles, La. ✓
- ✓ D. M. English, M.D. Magnolia Petroleum Co., Beaumont, Texas ✓
- ✓ T. M. Frank, M.D. Pan American Refining Corp., Texas City, ✓
Texas
- Brown 25 ✓ Harold E. Fraser, M.D. Tide Water Associated Oil Co., 79 New
Montgomery St., San Francisco 20, Calif.
- ✓ T. J. Kelly, M.D. Shell Oil Co., Inc., P.O. Box 262,
Wood River, Ill.
- W. R. Levis, M.D. Sun Oil Co., 401 East Broad St., Chester, Pa. ✓
KI 6-1600
1608 Walnut
- ✓ E. K. Linder, M.D. The Atlantic Refining Co., 260 So. Broad St.,
136 R 3 Philadelphia 1, Pa.
- ✓ J. W. Long, M.D. Gulf Oil Corp., Port Arthur, Texas ✓
- 16 ✓ E. P. Luongo, M.D. General Petroleum Corp., 108 West Second St.,
Los Angeles 12, Calif.
- appd. 11/15/49 Robert Bell Lynn, M.D. Wood River Oil & Refining Company, Inc., 1000 Washington,
Alton, Ill. Ind. is.
- W. A. Morrison, M.D. Union Oil Co. of California, 1307 Pacific
Mutual Bldg., 523 W. Sixth St.,
Los Angeles 14, Calif.
- ✓ M. N. Newquist, M.D. The Texas Co., 135 East 42nd St.,
New York 17, N.Y.

- O R. C. Page, M.D. Arabian American Oil Co., 200 Bush St.,
 San Francisco 4, Calif. *Office in N.Y.*
 O B. B. Reeve, M.D. Standard Oil Co. (Indiana), 910 So. Michigan
 Ave., Chicago 80, Ill.
 O Chas. A. Swan, M.D. The Standard Oil Co. (Ohio), Midland Bldg.,
 Cleveland 15, Ohio
 ✓ McIver Woody, M.D. Esso Standard Oil Co., 15 West 51st St.,
 New York 19, N.Y.

ASSOCIATES

- ✓ E. W. Adams Research Dept., Standard Oil Co. (Indiana),
 Whiting, Ind.
 O W. R. Argyle Sinclair Refining Co., 630 Fifth Ave.,
 New York 20, N.Y.
 ✓ L. C. Beard, Jr. Socony-Vacuum Oil Co., Inc., 26 Broadway,
 New York 4, N.Y.
 R. S. Bonsib Standard Oil Co. (New Jersey),
 30 Rockefeller Plaza, New York 20, N.Y.
 ✓ C. R. Brown Tide Water Associated Oil Co., 79 New
 Montgomery St., San Francisco 20, Calif.
 ✓ R. C. Cole Phillips Petroleum Co., Box 968, Phillips, ~~TX~~
 Texas
apptd 4/17/49 - Dr. William Crookshank (see page 1) ~~Cities Service Refining Corp., 716 Hodges St., Lake Charles, La.~~
 ✓ L. O. Crockett Gulf Oil Corp., P.O. Box 701, Port Arthur, ~~TX~~
 Texas
apptd 4/17/49 J. B. De Laune, (her) Cities Service Refining Corp., 716 Hodges St., Lake Charles
 La.
 ✓ Allan E. Dooley The Texas Co., 135 East 42nd St.,
 New York 17, N.Y.
 ditto T. E. De Villiers, (her) Cities Service Oil Co., Box 718, East Chicago, ~~Indian~~
 Indiana
 O R. S. Driver The Atlantic Refining Co., 260 So. Broad St.,
 Philadelphia 1, Pa.
apptd 10/25/49 R. W. Faillk (succeeds Dr. H. H. Zuidema) → *see page 3 for address*
 C Hugh W. Field The Atlantic Refining Co., 260 So. Broad St.,
 Philadelphia 1, Pa.
 ✓ H. G. M. Fischer Standard Oil Development Co.,
 15 West 51st St., New York 19, N.Y.
 ✓ *her* Nelson J. Gothard Sinclair Refining Co., East Chicago, Ind.
apptd 4/15/49 O L. M. Henderson The Pure Oil Co., 35 E. Wacker Drive, Chicago 1, Ill.
 O E. W. Isom (Vice President) Sinclair Refining Co., 630 Fifth Ave.,
 New York 20, N.Y.
 ✓ T. B. Kimball (Processing) " " " " " "
 A. J. Koewing, Jr. Socony-Vacuum Oil Co., Inc., (Lubrite
 Division), East St. Louis, Ill.

- O R. M. Landon *name for Gulf* Gulf Oil Corp., P.O. Box 1166, Pittsburgh 30, Pa.
 O ^{Professor} H. P. Lankelma, *(Consultant)* The Standard Oil Co. (Ohio), Midland Bldg.,
 (2127 Cornell Road, Cleveland 6, Ohio) Cleveland 15, Ohio
 18 ^{11/2/49} L D. W. Larmer Richfield Oil Corp., Richfield Bldg.,
 Los Angeles 13, Calif.
 L K. G. MacKenzie *Texas Co. N.Y. City*
 18 ^{11/2/49} C. R. McKay Richfield Oil Corp., P.O. Box 787,
 C. A. Neilson *Continental Oil Co., P.O. Box 787, Wilmington, Calif.*
 11/2/49 → W. H. Price *(Chemist)* Petroleum Advisers, Inc., Sixty Wall Tower, N.Y.C. N.Y.
 L R. B. Roaper Humble Oil & Refining Co., Box 2180, Houston 1, Texas
 L H. R. Warrick The Texas Co., 135 East 42nd St., New York 17, N.Y.
 O F. M. Watkins Sinclair Refining Co., 400 East Sibley Bldg., Harvey, Ill.
 L H. D. Wilde Humble Oil & Refining Co., Box 2180, Houston 1, Texas
 ✓ ~~E. H. Zuidema~~ ~~Shell Oil Co., Inc., Wood River Research Laboratory, P.O. Box 262, Wood River, Ill.~~
 Replaced by Mr. R. W. Faulk
 Shell Oil Co., 50 W. 50th St., New York 20, N.Y.

* Technical Services Division of Cities Service Oil Co., Lake Charles, La.

^{upptd}
 11/2/49 - Dr C. A. Neilson, Chief Chemist Continental Oil Company,
 Ponca City, Oklahoma.

Medical Advisory Committee

AMERICAN PETROLEUM INSTITUTE

50 WEST 50TH STREET

NEW YORK 20, N. Y.

January 18, 1949

DEPARTMENT OF SAFETY

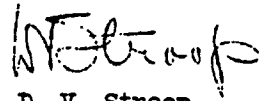
To Members and Associates
of Medical Advisory Committee

Gentlemen:

For the year 1949, John R. Suman, Chairman, Safety Committee of the Board of Directors, has reappointed the Medical Advisory Committee with A. E. Hoag, M.D., as Chairman; Kieffer Davis, M.D., as Vice Chairman; J. P. Holt, M.D., as Secretary, and with members and associates as shown on the attached list.

We hope each of you will be able to serve and to take an active part in the committee work. If you cannot serve, please notify me as promptly as possible.

Very truly yours,



D. V. Stroop
Director

DVS:d
Enclosure
mc: Safety Committee
of the Board of Directors
William R. Boyd, Jr.
John W. Frey
W. T. Gunn
B. H. Markham
H. B. Miller
J. E. Moss
Lacey Walker
C. A. Young

MEDICAL ADVISORY COMMITTEE
OF THE
AMERICAN PETROLEUM INSTITUTE
(FOR 1949)

MEMBERS

A. E. Hoag, M.D. (Chairman) Socony-Vacuum Oil Co., Inc., 26 Broadway,
New York 4, N.Y.

Kieffer Davis, M.D. (Vice Chairman) .. Phillips Petroleum Co., Bartlesville, Okla.

J. P. Holt, M.D. (Secretary) Standard Oil Co. (New Jersey),
30 Rockefeller Plaza, New York 20, N.Y.

W. O. Armstrong, M.D. Continental Oil Co., Ponca City, Okla.

V. C. Baird, M.D. Humble Oil & Refining Co., P.O. Box 2180,
Houston 1, Texas

F. F. Boys, M.D. Sinclair Refining Co., P.O. Drawer 60,
E. Chicago, Ind.

W. W. Brooks, M.D. Phillips Petroleum Co., Box 808, Phillips,
Texas
Marshall, Clinton *Socony-Vacuum - Buffalo*

L. E. Curtis, M.D. Standard Oil Co. of California, 225 Bush St.,
San Francisco 20, Calif. *or P.O. Box 3495*

D. M. English, M.D. Magnolia Petroleum Co., Beaumont, Texas

T. M. Frank, M.D. Pan American Refining Corp., Texas City,
Texas

Harold E. Fraser, M.D. Tide Water Associated Oil Co., 79 New
Montgomery St., San Francisco 20, Calif.

T. J. Kelly, M.D. Shell Oil Co., Inc., P.O. Box 262,
Wood River, Ill.

W. R. Levis, M.D. Sun Oil Co., 401 East Broad St., Chester, Pa.

E. K. Linder, M.D. The Atlantic Refining Co., 260 So. Broad St.,
Philadelphia 1, Pa.

J. W. Long, M.D. Gulf Oil Corp., Port Arthur, Texas

E. P. Luongo, M.D. (*off. - Madison 6-5711, Ext. 213671*) General Petroleum Corp., 108 West Second St.,
(*Mr. G. Adams*) (*Res. - Glendale 6557*) Los Angeles 12, Calif. (*Higgins Building*)
V.P. Dir. of Manufacturing, 612 South Flower St., Los Angeles, Calif.

W. A. Morrison, M.D. Union Oil Co. of California, 1307 Pacific
Mutual Bldg., 523 W. Sixth St.,
Los Angeles 14, Calif.

M. N. Newquist, M.D. The Texas Co., 135 East 42nd St.,
New York 17, N.Y.

*6/7/49
aah*

R. C. Page, M.D. Arabian American Oil Co., 200 Bush St.,
San Francisco 4, Calif.

B. B. Reeve, M.D. Standard Oil Co. (Indiana), 910 So. Michigan
Ave., Chicago 80, Ill.

Chas. A. Swan, M.D. The Standard Oil Co. (Ohio), Midland Bldg.,
Cleveland 15, Ohio

McIver Woody, M.D. Esso Standard Oil Co., 15 West 51st St.,
New York 19, N.Y.

ASSOCIATES

Dr. E. W. Adams Research Dept., Standard Oil Co. (Indiana),
Whiting, Ind.

W. R. Argyle Sinclair Refining Co., 630 Fifth Ave.,
New York 20, N.Y.

L. C. Beard, Jr. (D.S., Ph.D.) Socony-Vacuum Oil Co., Inc., 26 Broadway,
New York 4, N.Y.

R. S. Bonsib Standard Oil Co. (New Jersey),
30 Rockefeller Plaza, New York 20, N.Y.

C. R. Brown Tide Water Associated Oil Co., 79 New
Montgomery St., San Francisco 20, Calif.

R. C. Cole Phillips Petroleum Co., Box 968, Phillips,
Texas

apptd. 9/7/49 L. O. Crockett Gulf Oil Corp., P.O. Box 701, Port Arthur,
Texas

apptd. 9/7/49 Crookshank, Dr. William Cities Service Refining Corp., 716 Hodges St., Lake Charles

apptd. 9/7/49 Allan E. Dooley The Texas Co., 135 East 42nd St.,
New York 17, N.Y.

apptd. 9/7/49 De Villiers, (Mr.) T. E. Cities Service Oil Company, Box 718, East Chicago, Ind.

apptd. 9/7/49 R. S. Driver The Atlantic Refining Co., 260 So. Broad St.,
Philadelphia 1, Pa.

apptd. 9/7/49 De Laune, (Mr.) J. B. Cities Service Refining Corp., 716 Hodges St., Lake Charles

apptd. 9/7/49 Hugh W. Field The Atlantic Refining Co., 260 So. Broad St.,
Philadelphia 1, Pa.

H. G. M. Fischer Standard Oil Development Co.,
15 West 51st St., New York 19, N.Y.

8/15/49 Mr. Nelson J. Gothard Sinclair Refining Co., East Chicago, Ind.

E. W. Isom Sinclair Refining Co., 630 Fifth Ave.,
New York 20, N.Y.

Mr. T. B. Kimball - (Processing)

~~A. J. Keowing, Jr. Socony-Vacuum Oil Co., Inc., (Lubrite
Division), East St. Louis, Ill.~~

apptd. 5/9/49 - as per letter L. M. Henderson
Pure Oil Co., 35 East Wacker Drive,
Chicago 1, Illinois.

	R. M. Landon	Gulf Oil Corp., P.O. Box 1166, Pittsburgh 30, Pa.
Dr. ^{Professor}	H. P. Lankelma ^{Consultant}	The Standard Oil Co. (Ohio), Midland Bldg., Cleveland 15, Ohio (2127 Cornell Road. Cleveland 6, Ohio)
	D. W. Larmer	Richfield Oil Corp., Richfield Bldg., Los Angeles 13, Calif.
6/17/49 - awH	K. G. Mackenzie	Texas Co., ^{NY City}
	C. R. McKay	Richfield Oil Corp., P.O. Box 787, Wilmington, Calif.
applied - 9/17/49	Price Chen. W. H.	Petroleum Advisers, Inc., Sixty Wall Tower, N.Y.C.
	R. B. Rooper	Humble Oil & Refining Co., Box 2180, Houston 1, Texas
	H. R. Warrick	The Texas Co., 135 East 42nd St., New York 17, N.Y.
	F. M. Watkins	Sinclair Refining Co., 400 East Sibley Bldg., Harvey, Ill.
	H. D. Wilde	Humble Oil & Refining Co., Box 2180, Houston 1, Texas
D ^r 2/28/49	H. H. Zuidema	Shell Oil Co., Inc., Wood River Research Laboratory, P.O. Box 262, Wood River, Ill.

Copied from MEMO to Dr. A.W.Horton... February 1949

Attach -
List of Members of
Med. Adv. Com. &
Sub-Com. on C

A.P.T.

People (addresses) from whom the eight (8)

API samples were obtained

SHELL

Mr. P.J. Merkus, Jr.,
Shell Oil Company,
50 W. 50th Street,
New York, N. Y.

REFER: Let. P.J.M. to M.N. Newquist of Aug. 1, 1946,
advising of shipment of 3 drums and 3 gallon
samples to Mr. S.R. Bolles of SoOhio.

UNION OIL CO.

Mr. C. E. Swift,
Box 758,
Union Oil Company,
Wilmington, Calif.

REFER: Let. June 26, 1946 D.E. Carr to Dr. M.N. Newquist
advising of shipment of two petroleum samples.

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FE