

Transactions of the A.S.M.E.

IN TWO SECTIONS—SECTION TWO

SOCIETY RECORDS—PART 1

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FEBRUARY, 1940

VOL. 62, NO. 2

PRESIDENT



Blackstone

WARREN H. McBRYDE
1939-1940

Warren Horton McBryde

Warren Horton McBryde, consulting engineer, industrialist, and world traveler, of San Francisco, California, President of The American Society of Mechanical Engineers for the year 1939-1940, was born at Mobile, Ala., in 1876. At the age of 17, he entered the Alabama Polytechnic Institute, Auburn, where he specialized in electrical and mechanical engineering. He was graduated in 1897 with the degree of B.S.

Immediately after graduation, he was employed by the Electric Lighting Co. of Mobile, following which he did architectural designing and drafting for George F. Barber & Co., Knoxville, Tenn. During the Spanish-American War, he served for a few months in the U.S. Lighthouse Department and U.S. Engineers Corps and had charge of the submarine mines, searchlights, and electrical equipment guarding the entrance to Mobile Bay. Following this he was made chief electrician of the U.S. Army Transport *Sheridan*, on which he made a voyage from New York, N.Y., via the Suez Canal to the Philippines; thence via Nagasaki, Japan, to San Francisco, where he was honorably discharged. From 1899 to 1903, Mr. McBryde was employed by the Yuba Electric Power Company as assistant resident engineer in charge of construction on the Colgate hydroelectric powerhouse, in northern California, by the Peyton Chemical Company, San Francisco, as assistant superintendent of construction and by the Bay Counties Power Company, also of San Francisco, as chief draftsman and assistant to the chief electrical and mechanical engineer.

He was the first resident engineer in charge of construction at Gibbstown, N.J., for the E. I. du Pont de Nemours Powder Company from 1903 to 1905, and was transferred during the year 1905 to Hercules, Calif., where he constructed large sulphuric acid plants. In 1906, he was appointed the first chief of the West Coast engineering and construction department of the du Pont organization and, subsequently, became assistant superintendent of its Hercules plant and retained this position until 1919. During this period, Mr. McBryde was in charge of all maintenance and repairs, and handled many important engineering problems in connection with the hurried construction of 12 large TNT plants, the necessary nitric- and sulphuric-acid factories, and many other industrial buildings during the World War. He was also in charge of the labor- and industrial-relations department of the company and secured positions for more than three quarters of the 4000 men under his supervision when demobilization came.

In 1919, he became secretary of the California & Hawaiian Sugar Refining Co., San Francisco, and assistant to the general manager, and handled many important engineering problems for the company until 1927, when he engaged on his own account in his present business as a consulting engineer.

Mr. McBryde was elected a member of the Society in 1921. He was chairman of the San Francisco Section in 1925 and 1926, when the Spring Meeting was held in San Francisco in the latter year. As a delegate from the Section, he attended the 1926 Annual Meeting of the Society in New York, N.Y., and the celebration at Washington, D.C., in 1930, of the fiftieth anniversary of the formation of the A.S.M.E.

In company with Calvin W. Rice, Mr. McBryde represented the Society at the 75th anniversary of the Verein deutscher Ingenieure at Cologne, Germany, in June, 1931; he also attended the 1931 and 1935 spring meetings in England of The Institution of Mechanical Engineers at Cambridge and Bath, respectively. He was one of the founders of the Engineering Societies Employment Service office in San Francisco. In 1937, Mr. McBryde was elected vice-president of the A.S.M.E. and in his official capacity attended the 1937 and 1938 Annual Meetings in New York. He has taken a great deal of interest in the activities of A.S.M.E. student members and has attended their meetings at several schools on the West Coast as well as the Student Group Meetings, in 1938 and 1939, at Los Angeles and San Francisco, respectively.

In more recent years Mr. McBryde made his second and third circumnavigations of the globe, including voyages which took him through the Suez and Panama Canals, the Strait of Magellan and around the Cape of Good Hope, and visited and studied some eighty of the most prominent countries of the world, some two hundred and fifty of the most important world ports, and the capitals and principal cities of most of these countries.

These extended trips were made to study first-hand the engineering progress and industrial developments, the harbor improvements and port facilities, the transportation systems—rail, highways, and inland waterways—also the industrial, mineral, and agricultural products of these countries, as well as their domestic commerce and foreign trade, their economic conditions, and their political problems. During these trips he met many of the world's leading engineers and the directors of the most important museums of science and industry.

Other activities of Mr. McBryde include election as mayor of Hercules, Calif., and supervisor of Contra Costa County, while a resident of that city; the San Francisco Engineers' Club; the San Francisco Electrical Development League; and the presidency of the Industrial Association of San Francisco, in 1921, in recognition of his experience as an industrial employer and his interest in workingmen.

The American Society of Mechanical Engineers

HEADQUARTERS: 29 WEST 39TH ST., NEW YORK, N. Y.
MID-WEST OFFICE: ROOM 1617, 205 WEST WACKER DRIVE, CHICAGO, ILL.
MID-CONTINENT OFFICE: 211 MIDCO BUILDING, TULSA, OKLA.

The members of the Council and of its standing and special committees given on the following pages are those in office on January 1, 1940, serving for the official year 1939-1940. The terms of office of members of other committees are not fixed by the official calendar.

OFFICERS AND COUNCIL

PRESIDENT

WARREN H. MCBRYDE

PAST-PRESIDENTS

Terms expire December

RALPH E. FLANDERS (1940)
WILLIAM L. BATT (1941)
JAMES H. HERRON (1942)
HARVEY N. DAVIS (1943)
ALEXANDER G. CHRISTIE (1944)

VICE-PRESIDENTS

Terms expire December, 1940

W. LYLE DUDLEY
ALFRED IDDES
JAMES W. PARKER

Terms expire December, 1941

KENNETH H. CONDIT
FRANCIS HODGKINSON
JEROME C. HUNSAKER
KILSHAW M. IRWIN

MANAGERS

Terms expire December, 1940

CARL L. BAUSCH
SAMUEL B. EARLE
FRANK H. PROUTY

Terms expire December, 1941

CLARKE FREEMAN
WILLIAM H. WINTERROWD
WILLIS R. WOOLRICH

Terms expire December, 1942

JOSEPH W. ESHELMAN
LINN HELANDER
GUY T. SHOEMAKER

TREASURER

W. D. ENNIS

SECRETARY

C. E. DAVIES

CHAIRMEN OF STANDING COMMITTEES

Representatives on Council without vote

Finance, J. J. SWAN
Meetings and Program, ERIK OBERG
Publications, C. B. PECK
Admissions, R. L. SACKETT
Professional Divisions, HARTE COOKE
Local Sections, A. J. KERR
Constitution and By-Laws, G. E. HULSE
Honors and Awards, J. W. ROE

Relations with Colleges, H. O. CROFT
Education and Training for the Industries,
WARNER SEELY
Library, A. R. MUMFORD
Research, L. W. WALLACE
Standardization, W. C. MUELLER
Power Test Codes, FRANCIS HODGKINSON
Safety, T. F. HATCH
Professional Conduct, B. F. WOOD

EXECUTIVE COMMITTEE OF THE COUNCIL

WARREN H. MCBRYDE, *Chairman*
JAMES W. PARKER, *Vice-Chairman*
KENNETH H. CONDIT
CLARKE FREEMAN
WILLIAM H. WINTERROWD

Advisory Members: Chairmen of the
Finance, Local Sections, and Professional
Divisions Committees

SECRETARIAL STAFF

ERNEST HARTFORD, *Assistant Secretary* (Sections, Divisions, Student Branches, Membership, Meetings, etc.)
C. B. LEPAGE, *Assistant Secretary* (Technical Committees)
GEORGE A. STETSON, *Editor*
FREDERICK LASK, *Advertising Manager*
D. C. A. BOSWORTH, *Comptroller*

STANDING COMMITTEES

FINANCE

J. J. SWAN, *Chairman** (1940)
J. L. KOPF, *Vice-Chairman* (1941)
K. W. JAPPE (1942)
G. L. KNIGHT (1943)
W. I. SLICHTER (1944)

Council Representatives

C. L. BAUSCH (1940)
K. M. IRWIN (1941)

Junior Adviser

JOHN S. LESLIE (1940)

MEETINGS AND PROGRAM

ERIK OBERG, *Chairman** (1940)
W. J. WOHLBERG (1941)
A. L. KIMBALL (1942)
N. E. FUNK (1943)
L. K. SILCOX (1944)

Junior Advisers

G. L. LINGNER (1940)
D. E. ZELIFF (1941)

PUBLICATIONS

C. B. PECK, *Chairman** (1940)
COLEMAN SELLERS, 3D (1941)
F. L. BRADLEY (1942)
C. R. SODERBERG (1943)
A. R. STEVENSON, JR. (1944)

Advisory Members (1940)

W. L. DUDLEY
N. C. EBAUGH
A. N. GODDARD
E. J. KATES
L. S. MARKS
J. M. TODD

Junior Advisers

H. B. FERNALD, JR. (1940)
C. C. KIRBY (1941)
(Personnel of Special Committee, p. RI-3)

ADMISSIONS

R. L. SACKETT, *Chairman** (1940)
H. E. MOLÉ (1941)
T. M. KNOOP (1942)
S. H. LIBBY (1943)
L. R. FORD (1944)

Advisory Member

F. C. SPENCER (1940)

PROFESSIONAL DIVISIONS

HARTE COOKE, *Chairman** (1940)
VICTOR WICHUM (1941)
G. B. KARELITZ (1942)
W. A. CARTER (1943)
C. T. RIPLEY (1944)

Junior Advisers

SAM SCHOOR (1940)
A. E. BLIRER (1941)
(Personnel of Professional Divisions'
Executive Committees, p. RI-6)

*Representative on the Council.

LOCAL SECTIONS

A. J. KERR, *Chairman** (1940)
H. L. EGGLESTON (1941)
J. N. LANDIS (1942)
J. P. FERRIS (1943)
F. W. MARQUIS (1944)

Junior Advisers

J. R. CAVE, JR. (1940)
S. DAVIDSON (1941)
(Personnel of Local Sections' Executive
Committees, p. RI-10)

CONSTITUTION AND BY-LAWS

G. E. HULSE, *Chairman** (1940)
S. R. BETTLER (1941)
A. T. DUPONT (1942)
L. H. KENNEY (1943)
F. B. ORR (1944)

Junior Adviser

H. M. BLACK (1940)

HONORS AND AWARDS

J. W. ROE, *Chairman** (1941)
W. H. CARRIER (1940)
R. V. WRIGHT (1942)
D. C. JACKSON (1943)
C. L. BAUSCH (1944)
(Personnel of Special Committee, p. RI-3)

RELATIONS WITH COLLEGES

H. O. CROFT, *Chairman** (1940)
E. W. O'BRIEN (1941)
A. C. CHICK (1942)
J. D. CUNNINGHAM (1943)
P. B. EATON (1944)

Advisory Members (1940)

H. E. DEGLER
S. F. DUNCAN
E. O. EASTWOOD
F. H. PROUTY
G. L. SULLIVAN

Junior Adviser

J. I. YELLOTT (1940)
(Student Branches and Officers, p. RI-18)

EDUCATION AND TRAINING FOR
THE INDUSTRIES

WARNER SEELY, *Chairman** (1940)
J. H. PLOHN (1941)
A. R. STEVENSON, JR. (1942)
M. R. BOWERMAN (1943)
A. C. HARPER (1944)

Advisory Member (1940)

F. O. CLEMENTS

PROFESSIONAL CONDUCT

B. F. WOOD, *Chairman** (1940)
E. H. TENNEY (1941)
W. H. KENERSON (1942)
C. E. WADDELL (1943)
V. E. ALDEN (1944)

RESEARCH†

L. W. WALLACE, *Chairman** (1940)
E. G. BAILEY (1941)
W. TRINKS (1942)
M. D. HERSEY (1943)
J. H. WALKER (1944)

STANDARDIZATION†

W. C. MUELLER, *Chairman** (1940)
A. L. BAKER (1941)
J. E. LOVELY (1942)
J. R. WEAVER (1943)
T. E. FRENCH (1944)

POWER TEST CODES†

FRANCIS HODGKINSON, *Chairman** (1944)
A. G. CHRISTIE, *Vice-Chairman* (1941)
W. W. LAWRENCE, *Junior Observer* (1940)

Term expires 1940

A. T. BROWN
P. H. HARDIE
B. V. E. NORDBERG
R. J. S. PIGOTT
M. C. STUART

Term expires 1941

A. G. CHRISTIE
PAUL DISERENS
G. A. ORROK
L. A. QUAYLE
W. M. WHITE

Term expires 1942

W. A. CARTER
HARTE COOKE
E. R. FISH
H. B. OATLEY
W. J. WOHLBERG

Term expires 1943

LOUIS ELLIOTT
G. A. HORNE
H. B. REYNOLDS
P. W. SWAIN
E. N. TRUMP

Term expires 1944

C. H. BERRY
D. S. JACOBUS
FRANCIS HODGKINSON
L. F. MOODY
E. B. RICKETTS

SAFETY†

T. F. HATCH, *Chairman** (1941)
D. L. ROYER (1940)
A. W. LUCE (1942)
A. E. WINDLE (1943)
H. C. HOUGHTON (1944)

LIBRARY

A. R. MUMFORD, *Chairman** (1940)
JOHN BLIZARD (1941)
E. F. CHURCH, JR. (1942)
The Secretary, C. E. DAVIES, *Ex-Officio*

† Personnel of all Technical Committees,
pp. RI-20-33.

SPECIAL COMMITTEES

BIOGRAPHY ADVISORY

(Special Committee of Publications
Committee)

R. V. WRIGHT, *Chairman*
L. P. ALFORD
R. E. FLANDERS
G. A. ORROK
J. W. ROE
W. H. WINTERROWD

BOILER CODE

D. S. JACOBUS, *Chairman*
E. R. FISH, *Vice-Chairman*
C. W. OBERT, *Honorary Secretary*
M. JURIST, *Acting Secretary*
C. A. ADAMS
H. E. ALDRICH
H. C. BOARDMAN
PERRY CASSIDY
R. E. CECIL
F. S. CLARK
A. J. ELY
V. M. FROST
C. E. GORTON
A. M. GREENE, JR.
W. G. HUMPTON
J. O. LEECH
I. E. MOULTROP
C. O. MYERS
H. B. OATLEY
JAMES PARTINGTON
WALTER SAMANS
S. K. VARNES
A. C. WEIGEL

Honorary Members

W. H. BOEHM
F. W. DEAN
W. F. DURAND
T. E. DURBAN
C. L. HUSTON
W. F. KIESEL, JR.
M. F. MOORE
H. H. VAUGHAN
H. LEROY WHITNEY

(Personnel of Boiler Code Committees,
p. RI-32)

MEDALS

(Special Committee of Board of Honors
and Awards)

Term expires 1940

W. H. CARRIER
E. R. FISH
H. C. MEYER, JR.
L. W. WALLACE

Term expires 1941

H. A. EVERETT
H. A. S. HOWARTH
G. A. ORROK
J. W. ROE

Term expires 1942

ALEXANDER KLEMIN
E. W. O'BRIEN
E. S. PEARCE
R. V. WRIGHT

MEDALS

(Continued)

Term expires 1943

C. M. ALLEN
R. L. DAUGHERTY
W. A. HANLEY
D. C. JACKSON

Term expires 1944

C. L. BAUSCH
FRANCIS HODGKINSON
L. C. MORROW
J. M. TODD

REGULAR NOMINATING COMMITTEE
FOR 1940

O. A. LEUTWILER, *Chairman*
A. R. MUMFORD, *Secretary*

- I E. R. FISH, Hartford, Conn.
W. F. RYAN, Boston, Mass., *1st Alternate*
F. O. HOAGLAND, West Hartford, Conn., *2nd Alternate*
- II A. R. MUMFORD, New York, N. Y., *Secretary*
E. J. BILLINGS, New York, N. Y., *Alternate*
- III D. G. WILLIAMS, Allentown, Pa.
A. L. KIMBALL, Schenectady, N. Y., *1st Alternate*
F. C. SPENCER, SR., Westfield, N. J., *2nd Alternate*
- IV K. P. KAMMER, New Orleans, La.
E. E. WILLIAMS, Charlotte, N. C., *1st Alternate*
W. R. CHAMBERS, Knoxville, Tenn., *2nd Alternate*
- V C. M. GROSS, Anderson, Ind.
WARNER SEELY, Cleveland, Ohio, *Alternate*
- VI O. A. LEUTWILER, Urbana, Ill., *Chairman*
H. B. BERNARD, Tulsa, Okla., *1st Alternate*
L. P. WEINER, Peoria, Ill., *2nd Alternate*
- VII B. T. MCMINN, Seattle, Wash.
R. L. DYER, Seattle, Wash., *1st Alternate*
E. O. EASTWOOD, Seattle, Wash., *2nd Alternate*

LOCAL SECTIONS IN NOMINATING
COMMITTEE GROUPS

GROUP I

BOSTON
BRIDGEPORT
GREEN MOUNTAIN
HARTFORD
NEW BRITAIN
NEW HAVEN
NORWICH
PROVIDENCE
WATERBURY
WESTERN MASSACHUSETTS
WORCESTER

NOMINATING COMMITTEE GROUPS
(Continued)

GROUP II

METROPOLITAN (N.Y.) AND FOREIGN
MEMBERS

GROUP III

ANTHRACITE-LEHIGH VALLEY
BALTIMORE
BUFFALO
CENTRAL PENNSYLVANIA
ITHACA
PHILADELPHIA
PLAINFIELD
ROCHESTER
SCHENECTADY
SUSQUEHANNA
SYRACUSE
WASHINGTON, D.C.

GROUP IV

ATLANTA
BIRMINGHAM
CHARLOTTE
EAST TENNESSEE
FLORIDA
GREENVILLE
MEMPHIS
NEW ORLEANS
NORTH TEXAS
RALEIGH
SAVANNAH
SOUTH TEXAS
VIRGINIA

GROUP V

AKRON-CANTON
CENTRAL INDIANA
CINCINNATI
CLEVELAND
COLUMBUS
DAYTON
DETROIT
ERIE
LOUISVILLE
ONTARIO
PENINSULA
PITTSBURGH
TOLEDO
WEST VIRGINIA
YOUNGSTOWN

GROUP VI

CENTRAL ILLINOIS
CHICAGO
FORT WAYNE
KANSAS CITY
MID-CONTINENT
MILWAUKEE
MINNESOTA
NEBRASKA
ROCK RIVER VALLEY
ST. JOSEPH VALLEY
ST. LOUIS
TRI-CITIES

GROUP VII

COLORADO
INLAND EMPIRE
LOS ANGELES
OREGON
SAN FRANCISCO
UTAH
WESTERN WASHINGTON

SPECIAL COUNCIL COMMITTEES

(Dates in parentheses denote expiration of terms)

AIMS AND OBJECTIVES

Appointments to be made

BOARD OF REVIEW

F. MALCOLM FARMER, *Chairman* (1940)
 G. L. KNIGHT (1941)
 W. A. SHOUDY (1942)

BOARD ON TECHNOLOGY

ALFRED IDDLIES, *Chairman*
 J. C. HUNSAKER
 R. F. GAGG
 L. W. WALLACE (Research)
 HARTE COOKE (Professional Divisions)
 C. B. PECK (Publications)
 ERIK OBERG (Meetings and Program)

CITIZENSHIP (MANUAL ON)

A. R. CULLIMORE, *Chairman*
 LILLIAN M. GILBRETH
 W. H. WINTERROWD
 R. V. WRIGHT
 J. W. ROE

DEPRECIATION

H. V. COES
 P. T. NORTON, JR.

DUES-EXEMPT MEMBERS'
CONTRIBUTIONS

HARTE COOKE, *Chairman*
 G. W. FARNY
 F. D. HERBERT
 S. H. LIBBY
 W. R. WEBSTER

ECONOMIC STATUS OF THE
ENGINEER

C. J. FREUND, *Chairman*
 D. S. KIMBALL
 C. N. LAUER
 H. B. OATLEY
 H. L. WHITTEMORE
 W. E. WICKENDEN

Junior Representatives

W. F. CARHART
 HAROLD SIZER
 W. B. OAKLEY, JR.

Chairmen of Committees on Local Sections
 and Relations With Colleges, *Ex-Officio*

EDUCATION

F. L. EIDMANN, *Chairman* (1941)
 C. J. FREUND (1940)
 V. M. PALMER (1940)
 A. D. BAILEY (1941)
 K. H. CONDIT (1941)
 H. P. HAMMOND (1942)
 A. R. STEVENSON, JR. (1942)

Representatives of Committees on Local
 Sections and Relations with Colleges, and
 Society for the Promotion of Engineering
 Education, *Ex-Officio*

FREEMAN FUND

CLARKE FREEMAN
 E. C. HUTCHINSON
 G. A. ORROK

NATIONAL DEFENSE

H. I. CONE, *Chairman*
 K. H. CONDIT
 W. C. DICKERMAN
 T. A. MORGAN
 J. L. WALSH
 H. K. RUTHERFORD (War Dept. Rep.)
 A. B. ANDERSON (Navy Dept. Rep.)

MANUAL OF PRACTICE

B. F. WOOD, *Chairman*
 J. A. WILLARD, *Secretary*
 ALFRED IDDLIES
 WYNN MEREDITH
 J. M. TODD
 M. X. WILBERDING

Chairman of Committee on Professional
 Conduct, *Ex-Officio*

Junior Adviser

PHILIP WERNER

REGISTRATION

V. M. PALMER, *Chairman*
 S. H. GRAF
 J. A. MCPHERSON
 W. K. SIMPSON

SOCIETY OFFICE OPERATION

J. N. LANDIS, *Chairman*
 ALFRED IDDLIES
 W. H. WINTERROWD

GEORGE WESTINGHOUSE BUST

D. S. KIMBALL, *Chairman*
 C. E. DAVIES, *Secretary*
 K. T. COMPTON
 P. D. CRAVATH
 S. W. DUDLEY
 C. N. LAUER
 W. G. MARSHALL
 J. H. MCGRAW
 L. A. OSBORNE
 C. F. SCOTT
 L. B. STILLWELL
 J. B. WRIGHT
 R. V. WRIGHT

A.S.M.E. REPRESENTATIVES ON OTHER ACTIVITIES

See also A.S.M.E. Representatives on Other Research Committees, etc., pages RI-21, 27, 28, 31, 33
(Dates in parentheses denote expiration of terms)

AMERICAN ASSOCIATION FOR THE
ADVANCEMENT OF SCIENCE

SECTION M, ENGINEERING

R. F. GAGG
R. L. SACKETT

AMERICAN ENGINEERING COUNCIL

(One year term)

W. H. MCBRYDE, *Chairman*
W. L. BATT
R. E. FLANDERS
T. S. MCEWAN
E. W. O'BRIEN

Alternates

W. H. CLAPP
C. J. COLLEY
SABIN CROCKER
A. L. DAVIS
G. F. McDOUGALL
O. B. SCHIER, II

AMERICAN STANDARDS
ASSOCIATION

ALFRED IDDLIS (1940)
A. L. BAKER (1942)

Alternate

C. B. LePAGE (1940)

AMERICAN YEAR BOOK
CORPORATION

C. E. DAVIES

CENTER FOR SAFETY EDUCATION

J. B. CHALMERS

THOMAS ALVA EDISON FOUNDATION

WALTER KIDDE

THE ENGINEERING FOUNDATION

W. H. FULWEILER (1940)
K. H. CONDIT (1943)
A. A. POTTER (1943)

RESEARCH PROCEDURE COMMITTEE

W. H. FULWEILER (1940)

ENGINEERING HISTORY

G. A. ORROK
J. W. ROE

ENGINEERING SOCIETIES EMPLOY-
MENT SERVICE

C. E. DAVIES, National Board
R. D. BRIZZOLARA, Chicago Board
S. R. DOWS, San Francisco Board
ERNEST HARTFORD, *Chairman*, Metropolitan
Board

ENGINEERS' COUNCIL FOR PROFES-
SIONAL DEVELOPMENT

A. R. STEVENSON, JR. (1940)
H. T. WOOLSON (1941)
R. L. SACKETT (1942)

JOHN FRITZ MEDAL BOARD OF
AWARD

W. L. BATT (1940)
J. H. HERRON (1941)
H. N. DAVIS (1942)
A. G. CHRISTIE (1943)

FUEL VALUES

JOINT COMMITTEE WITH THE A.I.M.E.

A. D. BAILEY
E. H. BARRY
F. M. GIBSON
H. DRAKE HARKINS
J. C. HOBBS
A. L. PENNIMAN, JR.
E. B. RICKETTS
E. H. TENNEY

GANTT MEDAL BOARD OF AWARD

W. D. ENNIS (1940)
L. C. MORROW (1941)
LILLIAN M. GILBRETH (1942)

DANIEL GUGGENHEIM MEDAL
FUND, INC.

W. B. MAYO (1940)
E. A. SPERRY, JR. (1941)
ALEX. KLEMIN (1942)

JOSEPH A. HOLMES SAFETY
ASSOCIATION

J. F. BARKLEY

HOOVER MEDAL BOARD OF AWARD

W. H. KENERSON (1941)
S. F. VOORHEES (1943)
W. L. BATT (1945)

INTERNATIONAL ELECTROTECH-
NICAL COMMISSION

U. S. NATIONAL COMMITTEE

H. N. DAVIS
FRANCIS HODGKINSON
PAUL DISERENS

Alternate

C. HAROLD BERRY

MARSTON AWARD

G. A. ORROK

NATIONAL BUREAU OF ENGINEER-
ING REGISTRATION

V. M. PALMER

NATIONAL FIRE WASTE COUNCIL

JOHN A. NEALE

NATIONAL MANAGEMENT COUNCIL

J. A. PIACITELLI (1941)—F. L. EIDMANN,
Alternate
L. C. MORROW (1942)—W. H. KUSHNICK,
Alternate
L. P. ALFORD (1943)—C. W. LYTLE, *Alter-*
nate

NATIONAL RESEARCH COUNCIL

DIVISION OF ENGINEERING AND INDUSTRIAL
RESEARCH

W. L. BATT (1942)

ALFRED NOBLE PRIZE

A. M. GREENE, JR.

UNITED ENGINEERING TRUSTEES,
INC.

K. H. CONDIT (1940)
H. A. LARDNER (1942)
To be appointed (1943)

ENGINEERING SOCIETIES MONOGRAPHS
COMMITTEE

C. B. PECK
G. B. KARELITZ

VERMILYE MEDAL ADVISORY
COMMITTEE

R. A. WENTWORTH

WASHINGTON AWARD COMMISSION

C. B. NOLTE (1940)
W. L. ABBOTT (1941)

PROFESSIONAL DIVISIONS

ARTICLE B6A, PAR. 16: The Standing Committee on Professional Divisions shall, under the direction of the Council, have supervision of the Professional Divisions of the Society.

STANDING COMMITTEE

HARTE COOKE, *Chairman* (1940)
VICTOR WICHUM (1941)
G. B. KARELITZ (1942)
W. A. CARTER (1943)
C. T. RIPLEY (1944)

Junior Advisers

SAM SHOOR (1940)
A. E. BLIRER (1941)

Aeronautic

Organized, 1920

ALEXANDER KLEMIN, *Chairman*

EXECUTIVE COMMITTEE

C. H. DOLAN, II, *Chairman*
B. M. WOODS, *Vice-Chairman*
JEROME LEDERER, *Secretary*
J. M. CLARK
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ALEXANDER KLEMIN

Dayton Representative

P. H. KEMMER

GENERAL COMMITTEE

E. A. SPERRY, *Chairman*

Applied Mechanics

Organized, 1937

J. P. DEN HARTOG, *Chairman*

EXECUTIVE COMMITTEE

J. P. DEN HARTOG, *Chairman*
H. L. DRYDEN, *Secretary*
J. H. KEENAN
J. ORMONDROYD
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Associates

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J. C. HUNSAKER
A. L. KIMBALL
F. M. LEWIS
G. B. PEGRAM
C. R. SODERBERG
E. O. WATERS
H. M. WESTERGAARD

SPONSORS

H. L. DRYDEN, *Fluid Mechanics*
J. A. GOFF, *Thermodynamics*
G. B. KARELITZ, *Lubrication*
A. NADAI, *Plasticity*
R. E. PETERSON, *Strength of Materials*
E. L. THEARLE, *Dynamics*
S. TIMOSHENKO, *Elasticity*

JOURNAL OF APPLIED MECHANICS

J. M. LESSELLS, *Editor*

Fuels

Organized, 1920

H. O. CROFT, *Chairman*

EXECUTIVE COMMITTEE

H. O. CROFT, *Chairman* (1940)
A. R. MUMFORD, *Secretary* (1942)
W. G. CHRISTY (1941)
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A. W. THORSON (1944)

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O. F. CAMPBELL
B. J. CROSS
M. D. ENGLE
E. R. KAISER
T. A. MARSH
J. E. TOBEY

COOPERATION WITH A.I.M.E.

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R. A. SHERMAN
R. R. TUCKER

PROGRAM

A. W. THORSON, *Chairman*

REVIEW OF PAPERS

H. O. CROFT, *Chairman*
A. R. MUMFORD
A. W. THORSON

Graphic Arts

Organized, 1922

B. D. STEVENS, *Chairman*

EXECUTIVE COMMITTEE

B. D. STEVENS, *Chairman*
T. E. DALTON, *Secretary*
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B. L. SITES
B. L. WEHMHOF

Associates

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EDWARD EPSTEIN
W. C. GLASS
W. C. HUEBNER
W. R. MAULL

Graphic Arts

(Continued)

GRAPHIC ARTS FORUM

F. W. HOCH, *Chairman*
T. E. DALTON
R. G. MACDONALD

Heat Transfer

(Professional Group)

Organized, 1938

T. B. DREW, *Chairman*
W. S. PATTERSON, *Group Secretary*

EXECUTIVE COMMITTEE

T. B. DREW, *Chairman* (1942)
W. S. PATTERSON, *Group Secretary*
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Power, G. A. GAFFERT
Process Industries, A. WEISSELBERG

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Liaison Officer for Local Sections

A. K. SCOTT

PAPERS

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R. A. SHERMAN (1942)
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THERMO-PHYSICAL PROPERTIES OF MATERIALS

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MAX JAKOB

Hydraulic*Organized, 1926*F. G. SWITZER, *Chairman***EXECUTIVE COMMITTEE**

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Iron and Steel*Organized, 1927*W. TRINKS, *Chairman***EXECUTIVE COMMITTEE**

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Machine Shop Practice*Organized, 1921*A. M. JOHNSON, *Chairman***EXECUTIVE COMMITTEE**

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 SOL EINSTEIN
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 B. G. TANG

CUTTING METALSHANS ERNST, *Chairman*

(See also Research Technical Committee on
 Cutting of Metals, page RI-20)

FOUNDRY PRACTICE

JAMES THOMSON, *Chairman*
 R. E. KENNEDY, *Secretary*

LUBRICATION ENGINEERING

B. G. TANG, *Chairman*
 C. M. LARSON
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MACHINE DESIGNE. S. AULT, *Chairman*

A. E. R. DE JONGE

J. MARIN

WELDINGC. W. OBERT, *Chairman***Management***Organized, 1920*W. H. KUSHNICK, *Chairman***EXECUTIVE COMMITTEE**

W. H. KUSHNICK, *Chairman*
 G. VARGA, *Secretary*
 J. R. BANGS
 H. B. BERGEN
 L. C. MORROW

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 L. A. APPLEY
 R. M. BARNES
 W. L. BATT
 C. W. BEESE
 F. B. BELL
 H. V. COES
 K. H. CONDIT
 N. E. ELSAS
 R. E. FLANDERS
 W. D. FULLER
 LEE GALLOWAY
 L. M. GILBRETH
 P. E. HOLDEN
 W. F. HOSFORD
 D. S. KIMBALL
 T. S. MCEWAN
 D. B. PORTER
 WALTER RAUTENSTRAUCH
 F. E. RAYMOND
 J. W. ROE
 D. L. ROYER
 E. H. SCHELL
 E. D. SMITH
 L. W. WALLACE
 JOHN YOUNGER

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 Metropolitan, W. F. CARHART
 Milwaukee, B. V. E. NORDBERG
 Philadelphia, C. S. GOTWALS
 Western Washington, H. J. MCINTYRE

Materials Handling

Organized, 1920

G. E. HAGEMANN, *Chairman*

EXECUTIVE COMMITTEE

G. E. HAGEMANN, *Chairman*
F. J. SHEPARD, JR., *Secretary*
C. F. DIETZ
J. A. JACKSON
M. C. MAXWELL
R. B. RENNER

Associates

NIXON ELMER
R. H. McLAIN
F. E. MOORE
E. D. SMITH
J. B. WEBB

Oil and Gas Power

Organized, 1921

F. G. HECHLER, *Chairman*

EXECUTIVE COMMITTEE

F. G. HECHLER, *Chairman*
W. J. HARGEST, *Secretary*
E. S. DENNISON
W. L. H. DOYLE
C. W. GOOD
L. H. MORRISON

Associates

R. D. CAMPBELL
H. E. DEGLER
L. R. FORD
E. J. KATES
BRUNO NORDBERG
M. J. REED
LEE SCHNEITTER
A. R. WALKER

Petroleum

Organized, 1925

Reorganized, 1937

T. D. TIFFT, *Chairman*

EXECUTIVE COMMITTEE

T. D. TIFFT, *Chairman*
W. J. OVERTON, *Staff Secretary*
W. F. HERBERT, *First Vice-Chairman*
H. L. EGGLESTON, *Second Vice-Chairman*
E. H. BARLOW, *Third Vice-Chairman*
W. H. CARSON, *Fourth Vice-Chairman*

Power

Organized, 1920

E. L. HOPPING, *Chairman*

EXECUTIVE COMMITTEE

E. L. HOPPING, *Chairman*
THEODORE BAUMEISTER, JR., *Secretary*
O. F. CAMPBELL
G. C. EATON
G. A. GAFFERT

Process Industries

Organized, 1934

J. W. HUNTER, *Chairman*

EXECUTIVE COMMITTEE

J. W. HUNTER, *Chairman*
T. R. OLIVE, *Secretary*
THEODORE BAUMEISTER, JR.
C. E. HARRINGTON
R. F. O'MARA
WM. RAISCH
J. H. SENGSTAKEN
A. F. SPITZGLASS
ARNOLD WEISSELBERG
W. R. WOOLRICH
J. I. YELLOTT
F. L. YERZLEY

AIR CONDITIONING

C. F. KAYAN, *Chairman*

DRYING

ARNOLD WEISSELBERG, *Chairman*

FOOD PROCESSING

G. L. MONTGOMERY, *Chairman*

INDUSTRIAL INSTRUMENTS AND REGULATORS

EXECUTIVE COMMITTEE

E. S. SMITH, *Chairman*
E. D. HAIGLER, *Vice-Chairman*
A. F. SPITZGLASS, *Secretary*
GEORGE PERAZICH, *Chairman, Bibliography Committee*
P. G. EXLINE, *Chairman, Pressure and Temperature Committee*
J. J. GREBE, *Chairman, Program Committee*
A. F. SPITZGLASS, *Chairman, Quantitative Analysis Committee*
J. I. YELLOTT, *Chairman, Terminology Committee*
M. J. ZUCROW, *Chairman, Translation Committee*

Process Industries

(Continued)

MECHANICAL SEPARATION

R. F. O'MARA, *Chairman*

PAPER AWARDS AND HONORS

C. E. LUCKE, *Chairman*

PROGRAM

J. W. HUNTER, *Chairman*

PULP AND PAPER

J. A. MCPHERSON, *Chairman*

SANITATION

WILLIAM RAISCH, *Chairman*

SUGAR

F. M. GIBSON, *Chairman*

SULPHUR

B. E. SHORT, *Chairman*

VEGETABLE OILS

ROSCOE MORTON, *Chairman*

Sub-Division on Rubber and Plastics

EXECUTIVE COMMITTEE

F. L. YERZLEY, *Chairman*
J. F. D. SMITH, *Secretary*
L. E. JERMY
G. M. KLINE

Railroad

Organized, 1920

L. H. FRY, *Chairman*

EXECUTIVE COMMITTEE

L. H. FRY, *Chairman (1940)*
C. L. COMBES, *Secretary*
A. I. LIPETZ (1941)
D. S. ELLIS (1942)
J. R. JACKSON (1943)
J. G. ADAIR (1944)

(Continued on following page)

Railroad*(Continued)***GENERAL COMMITTEE (RR2)**

L. H. FRY, *Chairman*
 R. S. BINKERD
 B. S. CAIN
 O. C. CROMWELL
 W. E. DUNHAM
 L. B. JONES
 F. G. LISTER
 F. E. LYFORD
 K. F. NYSTROM
 JOHN ROBERTS
 R. W. SALISBURY
 W. C. SANDERS
 W. M. SHEEHAN
 H. C. WILCOX
 DENNISTOUN WOOD
 E. G. YOUNG
 G. A. YOUNG

PAST-CHAIRMEN (RR3)

JAMES PARTINGTON (1923-1924)
 H. B. OATLEY (1926-1927)
 WM. ELMER (1928)
 R. S. McCONNELL (1929)
 A. F. STUEBING (1930)
 ELIOT SUMNER (1931)
 T. C. McBRIDE (1932)
 L. K. SILLCOX (1933)
 C. B. PECK (1934)
 C. E. BARBA (1935)
 GEO. W. RINK (1936)
 W. H. WINTERROWD (1937)
 E. C. SCHMIDT (1938)
 C. T. RIPLEY (1939)

Textile*Organized, 1921*R. DeVERE HOPE, *Chairman***EXECUTIVE COMMITTEE**

R. DeVERE HOPE, *Chairman*
 A. D. ASBURY, *Vice-Chairman*
 W. B. HEINZ, *Secretary*
 H. H. ILER
 ALBERT PALMER
 J. D. ROBERTSON
 E. R. STALL
 W. W. STARKE, *Metropolitan Representative*
 S. B. EARLE, *Southern Representative*

Associates

A. W. BENOIT
 W. S. BROWN
 WINN CHASE
 M. A. GOLRICK, JR.

Wood Industries*Organized, 1921*C. B. NORRIS, *Chairman***EXECUTIVE COMMITTEE**

C. B. NORRIS, *Chairman*
 M. J. MACDONALD
 SERN MADSEN
 T. D. PERRY
 R. H. MCCARTHY, *Metropolitan Representative*

Associates

C. L. BABCOCK
 P. H. BILHUBER
 H. B. CARPENTER
 F. P. CARTWRIGHT
 G. E. FRENCH
 A. W. KEUFFEL
 A. S. KURKJIAN
 J. S. MATHEWSON
 E. D. MAY
 A. D. SMITH, JR.
 H. M. SUTTON
 CHAS. WHITE

SUBCOMMITTEE CHAIRMEN

Dimensional Limits and Allowances, SERN MADSEN
 Machining of Wood, R. H. MCCARTHY
 Use of Plywood as an Engineering Material, T. D. PERRY
 Wood Finishing, M. J. MACDONALD

LOCAL SECTIONS

ARTICLE B6A, PAR. 17: The Standing Committee on Local Sections shall, under the direction of the Council, have supervision of the Local Sections of the Society.

STANDING COMMITTEE ON LOCAL SECTIONS

A. J. KERR, *Chairman* (1940)
 H. L. EGGLESTON (1941) J. P. FERRIS (1943)
 J. N. LANDIS (1942) F. W. MARQUIS (1944)

Junior Advisers

J. R. CAVE, JR. (1940) S. DAVIDSON (1941)

REGIONAL GROUP DELEGATES TO ANNUAL CONFERENCES

Terms expire October, 1940

S. F. DUNCAN, *Speaker for 1939 Conference*, Group VII
 R. A. SPENCE, *Secretary*, Group I
 C. A. HESCHELES, Group II N. C. EBAUGH, Group IV
 J. T. REA, Group III C. J. FREUND, Group V
 R. E. TURNER, Group VI

Terms expire October, 1941

A. R. ACHESON, *Speaker for 1940 Conference*, Group III
 G. R. TRUEDSSON, *Secretary*, Group I
 O. B. SCHIER, II, Group II H. M. GANO, Group V
 A. D. ASBURY, Group IV FRED H. DORNER, Group VI
 W. D. TURPIN, Group VII

AKRON-CANTON

Organized: 1920
 Territory: Counties of Richland, Ashland,
 Medina, Summit, Portage, Wayne,
 Stark, Holmes, Tuscarawas, Carroll,
 and Coshocton in Ohio
 Place of Meeting: As selected monthly
 Number of Members: 126

G. W. FARNHAM
 W. W. HAGERTY
 R. E. MOYER, JR.
 E. A. SCHMIDT
 W. T. SOULIS
 W. TALLGREN
 R. L. WILLIS

C. R. CHISHOLM
 R. C. DANNETTEL
 A. M. GOMPF
 K. P. HANSON
 W. P. HILL
 G. W. KEEN
 S. M. WHITELEY

EXECUTIVE COMMITTEE

A. D. MACLACHLAN, *Chairman*
 A. W. SEEKINS, *Vice-Chairman*
 A. G. WALKER, *Secretary-Treasurer*
 OSCAR BIESHELT
 M. R. BOWERMAN
 J. W. BOYD
 V. R. CAMP
 JAMES FORREST
 E. D. GEORGE
 C. W. NELSON
 G. J. SCHOESSOW
 A. E. SHETLER

ANTHRACITE-LEHIGH VALLEY

Organized: 1920, as Lehigh Valley; reorga-
 nized, 1928, as Anthracite-Lehigh
 Valley
 Territory: Counties of Bradford, Susque-
 hanna, Wayne, Sullivan, Wyoming,
 Lackawanna, Columbia, Luzerne, Mon-
 roe, Pike, Schuylkill, Carbon, Berks,
 Lehigh, Northampton in Pennsylvania,
 and Warren in New Jersey
 Place of Meeting: One meeting annually at
 Allentown, Bethlehem, Easton, Hazle-
 ton, Pottsville, Reading, Scranton, and
 Wilkes-Barre
 Local Organization: The Engineers' Club
 of Lehigh Valley
 Number of Members: 191

EXECUTIVE COMMITTEE

J. W. STEINMEYER, *Chairman*
 A. W. LUCE, *Vice-Chairman*
 F. C. PETERS, *Vice-Chairman*
 W. P. SAUNIER, *Vice-Chairman*
 C. M. MERRICK, 3RD, *Secretary*
 M. C. STUART, *Treasurer*

ATLANTA

Organized: 1913
 Territory: Radius of sixty miles from At-
 lanta, Ga.
 Place of Meeting: Atlanta Athletic Club
 Luncheon meeting every Monday at 12:30
 p.m. at Atlanta Athletic Club
 Number of Members: 85

EXECUTIVE COMMITTEE

M. F. MERL, *Chairman*
 F. C. SMITH, *Vice-Chairman*
 J. M. RITTELMAYER, *Secretary-Treasurer*
 R. N. BENJAMIN
 E. A. HARPER
 R. S. HOWELL
 A. H. KOCH
 R. J. WODDALL, *Student Chairman*

BALTIMORE

Organized: 1916
 Territory: Radius of thirty miles from Bal-
 timore, Md.
 Place of Meeting: Engineers Club of Bal-
 timore
 Luncheon meeting every Wednesday at
 12:00 noon at Engineers Club
 Number of Members: 189

EXECUTIVE COMMITTEE

L. F. COFFIN, *Chairman*
 S. B. SEXTON, 3RD, *Secretary-Treasurer*
 W. D. BOYNTON

JUNIOR GROUP

W. D. BOYNTON, *Chairman*
 W. P. HILL, *Vice-Chairman*
 F. S. KNABE, *Secretary*
 F. C. COOK
 C. F. HILDENBRAND
 P. T. MANGER
 T. W. MELE

BIRMINGHAM

Organized: 1915
 Territory: Radius of sixty miles from Bir-
 mingham, Ala.
 Place of Meeting: Tutwiler Hotel
 Number of Members: 90

EXECUTIVE COMMITTEE

R. A. POLGLAZE, *Chairman*
 H. S. KENT, *Vice-Chairman*
 C. F. VON HERRMAN, JR., *Secretary-Trea-
 surer*
 J. E. GETZEN
 W. JOE MOORE

BOSTON

Organized: 1909
 Territory: Radius of thirty miles from Bos-
 ton, Mass.
 Place of Meeting: Mass. Inst. of Technology
 Local Organization: Engineering Societies
 of New England
 Number of Members: 559

BOSTON

(Continued)

EXECUTIVE COMMITTEE

EDGAR MACNAUGHTON, *Chairman*
KERR ATKINSON, *Vice-Chairman*
R. A. SPENCE, *Secretary-Treasurer*
H. J. BROWN
G. K. SAURWEIN
J. W. ZELLER

JUNIOR GROUP

E. I. BOWER, *Chairman*
R. N. GILBERT, *Vice-Chairman*
R. A. SPENCE, *Secretary-Treasurer*
F. ROBERT HARTIN
F. M. MAGEE
ANTON SALECKER
A. A. SHAMES

BRIDGEPORT

Organized: 1917, as a Branch of Connecticut Section; reorganized as a Section, 1923
Territory: Fairfield County, Conn.
Place of Meeting: Stratfield Hotel
Local Organization: Engineers' Club of Bridgeport
Number of Members: 121

EXECUTIVE COMMITTEE

A. H. BEEDE, *Chairman*
C. N. HOAGLAND, *Vice-Chairman*
W. H. SNIFFEN, *Secretary*
A. W. HAGAN, *Treasurer*
RUDOLF BECK
C. A. BUSS
H. P. HARRIS
R. C. MOODY
O. J. RICHMOND
J. D. SKINNER
D. E. STEER
J. H. VAN YORK, JR.

JUNIOR GROUP

C. A. BUSS, *Chairman*
W. J. CHELGREN, *Vice-Chairman*
D. E. STEER, *Secretary-Treasurer*

BUFFALO

Organized: 1915
Territory: Radius of thirty miles from Buffalo, N.Y.
Place of Meeting: University Club, Delaware Ave.
Local Organization: Engineering Society of Buffalo
Number of Members: 191

EXECUTIVE COMMITTEE

W. M. KAUFFMANN, *Acting Chairman*
E. J. WEITZMAN, *Acting Vice-Chairman*
W. A. MILLER, *Secretary*
C. E. HARRINGTON, *Treasurer*
PAUL DUBOSCLARD
C. G. ROSE
J. L. YATES, *Adviser for Juniors*

CENTRAL ILLINOIS

Organized: 1937
Territory: All the territory in Central Illinois between the following counties

on the northern boundary: Bureau, LaSalle, Knox, Stark, Putnam, Marshall, Livingston, Peoria; counties on the southern boundary: Pike, Scott, Morgan, Sangamon, Macon, Piatt, Douglas, and Edgar
Place of Meeting: Hotel Pere Marquette or Caterpillar Show Room
Number of Members: 94

EXECUTIVE COMMITTEE

E. D. EDWARDS, *Chairman*
O. A. LEUTWILER, *Vice-Chairman*
F. L. MEYER, *Vice-Chairman*
C. O. SMITH, *Vice-Chairman*
R. T. MEES, *Secretary-Treasurer*
L. E. JOHNSON, *Assistant Secretary*

JUNIOR GROUP

L. E. JOHNSON, *Chairman*

CENTRAL INDIANA

Organized: 1916
Territory: Radius of eighty miles from Indianapolis, within Indiana
Place of Meeting: Place varies
Local Organization: Indiana Engineering Society
Number of Members: 123

EXECUTIVE COMMITTEE

HANS SKABO, *Chairman*
J. A. DROGUE, *Vice-Chairman*
W. J. COPE, *Secretary-Treasurer*
E. A. GRIMMER
C. M. GROSS
RONALD UPDIKE
CARL WISCHMEYER

CENTRAL PENNSYLVANIA

Organized: 1921
Territory: Radius of approximately sixty miles from State College, Pa.
Place of Meeting: State College and Altoona, Pa.
Number of Members: 85

EXECUTIVE COMMITTEE

F. C. STEWART, *Chairman*
J. O. P. HUMMEL, *Secretary-Treasurer*
C. L. ALLEN
W. D. GARMAN
G. L. GUILLET

CHARLOTTE

Organized: As a Branch, 1923; as a Section, 1927
Territory: Radius of seventy-five miles from Charlotte, N.C.
Luncheon Meeting every Monday at 1:00 p.m. at Efrids Department Store Dining Room
Local Organization: Charlotte Engineers Club
Number of Members: 37

EXECUTIVE COMMITTEE

W. W. LEROY, *Chairman*
R. P. REECE, *1st Vice-Chairman*

M. D. THOMASON, *2nd Vice-Chairman*
A. W. DUNBAR, *3rd Vice-Chairman*
J. S. BASS, JR., *Secretary-Treasurer*
A. W. BOLLENBACK
T. C. HEYWARD
ASA HOSMER
W. E. McDOWELL
T. O. SILLS

CHICAGO

Organized: 1913
Territory: Radius of fifty miles from Chicago, Ill.
Headquarters: Mid-West A.S.M.E. Office, Room 1617, 205 West Wacker Drive, Chicago, Ill.
Place of Meeting: Civic Opera Bldg., 20 N. Wacker Dr.
Luncheon Meeting every Tuesday at 12:15 p.m. at Chicago Engineers' Club
Local Organization: Western Society of Engineers
Number of Members: 784

EXECUTIVE COMMITTEE

L. M. ELLISON, *Chairman*
H. M. BLACK, *Vice-Chairman*
F. C. EVERITT, *Vice-Chairman*
H. F. HEBLEY, *Vice-Chairman*
D. ROESCH, *Vice-Chairman*
F. B. ORR, *Secretary-Treasurer*
C. C. AUSTIN
A. D. BAILEY
C. L. CHARLES
W. E. DUNHAM
J. A. FOLSE
A. H. JENS
J. S. KOZACKA
R. KRAUSE
F. H. LANE
J. P. MAGOS
J. C. MARSHALL
T. S. McEWAN
J. R. MICHEL
H. L. NACHMAN
C. W. PARSONS
H. S. PHILBRICK
J. G. REID
C. ROBERTS
M. W. SHERWOOD
B. D. STEVENS
R. E. TURNER
C. L. WACHS

JUNIOR GROUP

R. KRAUSE, *Co-Chairman*
J. C. MARSHALL, *Co-Chairman*

CINCINNATI

Organized: 1912
Territory: Radius of thirty miles from Cincinnati, Ohio
Place of Meeting: Engineers' Club Rooms, Ninth & Race Sts.
Local Organization: Engineers' Club of Cincinnati
Number of Members: 185

EXECUTIVE COMMITTEE

E. H. SCHUBERT, *Chairman*
C. E. SOMOGYI, *Vice-Chairman*
J. W. BUNTING, *Secretary-Treasurer*
H. B. BRANDT
D. S. BROWN

CINCINNATI

(Continued)

A. G. BRUCK
E. J. MARTIN
L. E. NENNINGER
E. S. SAUERBRUNN
C. H. SPIEHLER
H. P. THOMPSON

CLEVELAND

Organized: 1918
Territory: Counties of Lorain, Cuyahoga Lake, Geauga, and Ashtabula in Ohio
Place of Meeting: Case Club or Cleveland Engineering Society Rooms
Local Organization: Cleveland Engineering Society
Number of Members: 248

EXECUTIVE COMMITTEE

G. B. CARSON, *Chairman*
E. L. LINDSETH, *Vice-Chairman*
E. R. MCCARTHY, *Secretary*
F. A. BARNES, *Treasurer*
A. B. EINIG
E. B. HEAVILON
J. M. MAIN
H. A. SCHWARTZ
D. K. WRIGHT

JUNIOR GROUP

R. E. ERICKSON, *Chairman*
W. A. LYNAM, *Secretary-Treasurer*
J. O. GEISSBUHLER

COLORADO

Organized: 1919
Territory: Entire State of Colorado
Place of Meeting: Parisienne Rotisserie Inn, Denver, Colo.
Local Organization: Colorado Engineering Council (Colorado Society of Engineers)
Number of Members: 77

EXECUTIVE COMMITTEE

A. L. HILL, *Chairman*
R. F. THRONE, *Secretary-Treasurer*
C. E. BEATTY
L. D. CRAIN
F. H. PROUTY
G. A. RICHTER
S. L. SIMMERING
J. TAYLER STRATE

COLUMBUS

Organized: 1920
Territory: Counties of Union, Delaware, Licking, Madison, Franklin, Fayette, Pickaway, and Ross in Ohio
Place of Meeting: Battelle Memorial Institute and The Ohio State University
Local Organization: Engineers' Club of Columbus
Luncheon Meeting third Friday of each month at 12:00 noon at Engineers' Club, Columbus
Number of Members: 76

EXECUTIVE COMMITTEE

R. N. TUCKER, *Chairman*
E. M. SAMPSON, *Vice-Chairman*
R. C. CROSS, *Secretary-Treasurer*

H. N. BOOKER
A. I. BROWN
H. R. LIMBACHER
C. P. ROBERTS
W. A. WELCKER, JR.

DAYTON

Organized: 1926
Territory: Counties of Drake, Miami, Champaign, Preble, Montgomery, Greene, and northern part of Butler and Warren in Ohio
Place of Meeting: Engineers' Club of Dayton
Local Organization: Engineers' Club of Dayton
Number of Members: 82

EXECUTIVE COMMITTEE

P. H. KEMMER, *Chairman*
A. R. WEBER, *Vice-Chairman*
(MISS) M. ELSA GARDNER, *Secretary*
B. W. TREADWELL, *Treasurer*
C. L. BAUER
H. M. GANO
R. W. MARTIN
T. F. RATAICZAK
W. E. SOOY

DETROIT

Organized: 1916
Territory: Radius of thirty miles from Detroit, Mich.
Place of Meeting: Place varies
Local Organization: Engineering Society of Detroit
Number of Members: 456

EXECUTIVE COMMITTEE

B. W. BEYER, JR., *Chairman*
TOM JEFFORDS, *Secretary-Treasurer*
E. J. ABBOTT
J. A. CARLIN
M. L. FOX
J. F. JARNAGIN
J. B. MACAULEY
D. E. MCGUIRE
JESSE ORMONDROYD
J. P. SCHECHTER
A. M. SELVEY
M. W. BENJAMIN, *Ex-Officio*

JUNIOR GROUP

GEORGE SCRANTON, *Chairman*
CLARENCE GREEN, *Secretary*
B. W. LANE

EAST TENNESSEE

Organized: 1922
Territory: All counties in Tennessee east of the west boundary of Scott, Morgan, Cumberland, White, Warren, Coffee, Moore, Franklin; Belle County in Kentucky; and Rossville, Dade, Walker, Cattasa, Whitfield, Murray, Gordon, Chattooga in Georgia
Place of Meeting: Place varies
Local Organization: Chattanooga Engineers Club and Knoxville Technical Club
Luncheon Meeting every Monday noon at Chattanooga Engineers Club
Number of Members: 94

EXECUTIVE COMMITTEE

W. R. CHAMBERS, *Chairman*
T. C. ERVIN, *1st Vice-Chairman*
DAVID SHEARER, *2nd Vice-Chairman*
R. B. TAYLOR, *3rd Vice-Chairman*
J. M. TUCKER, *Secretary*
G. E. CAMPBELL
C. E. FERRIS
J. M. JOHNSON
ELMER TOROK
A. S. WELLS

ERIE

Organized: 1917
Territory: Radius of thirty miles from Erie, Pa.
Place of Meeting: Auditorium of Pennsylvania Telephone Company
Number of Members: 75

EXECUTIVE COMMITTEE

C. T. OERTEL, *Chairman*
G. F. LINDE, *Vice-Chairman*
R. R. BLUNT, *Secretary*
E. E. IMS, *Treasurer*
G. W. BACH
E. H. HORSTKOTTE
W. L. HUNTER
MCD. S. REED
R. W. ROGERS

FLORIDA

Organized: 1925
Territory: State of Florida
Place of Meeting: Various Cities in State
Local Organization: Florida Engineering Society, Gainesville, Fla.
Number of Members: 74

EXECUTIVE COMMITTEE

N. C. EBAUGH, *Chairman*
J. H. CLOUSE, *1st Vice-Chairman*
M. H. C. BROMBACHER, *2nd Vice-Chairman*
V. C. COUCHMAN, *Secretary-Treasurer*
W. E. DREW
A. B. HALE
W. A. STANSFIELD
C. H. STANTON, *Student Branch Chairman*

FORT WAYNE

Organized: 1939
Territory: Counties of LaGrange, Steuben, Noble, DeKalb, Whitley, Allen, Wabash, Huntington, Wells, Adams, Miami, Blackford and Jay in Indiana; Counties of Williams, Defiance, Paulding, Van Wert and Mercer in Ohio
Local Organization: Fort Wayne Engineers' Society
Number of Members: 27

EXECUTIVE COMMITTEE

N. T. BOURKE, *Chairman*
W. L. KNAUS, *Vice-Chairman*
F. T. MCINERNEY, *Secretary*
F. L. RUOFF, *Treasurer*
J. H. POWERS
W. S. RICHART

GREEN MOUNTAIN

Organized: 1923
 Territory: Entire State of Vermont and neighboring and closely related communities of Claremont and Hanover, N.H.
 Place of Meeting: Springfield, Windsor, Vt., and Claremont, N.H.
 Local Organization: Vermont Engineering Society
 Number of Members: 39

EXECUTIVE COMMITTEE

M. H. ARMS, *Chairman*
 LEIF FERSING, *Secretary-Treasurer*
 P. H. ADAMS
 C. J. DEWELL
 DOUGLAS HAMILTON
 J. B. JOHNSON
 E. L. SUSSDORFF

JUNIOR GROUP

E. L. SUSSDORFF, *Chairman*

GREENVILLE

Organized: As a Branch, 1923; as a Section, 1927
 Territory: Radius of sixty miles from Greenville, S.C.
 Place of Meeting: Meetings held at Greenville, Clemson College, S.C., Canton, Asheville, and Enka, N.C.
 Number of Members: 40

EXECUTIVE COMMITTEE

A. D. ASBURY, *Chairman*
 R. B. FULLER, *Vice-Chairman*
 J. H. SAMS, *Secretary-Treasurer*
 B. E. FERNOW
 J. R. GILL
 H. H. ILER
 R. S. PRUITT
 J. E. WALDREP

HARTFORD

Organized: 1917, as Branch of Conn. Section; reorganized, 1923
 Territory: Hartford County except that portion served by Meriden and New Britain Sections
 Place of Meeting: Hartford Electric Light Company
 Number of Members: 115

EXECUTIVE COMMITTEE

D. K. MORGAN, *Chairman*
 H. BURDICK, *Vice-Chairman*
 R. D. KELLER, *Secretary*
 S. A. BRANDENBURG
 R. F. DOW
 E. P. HERRICK
 F. O. HOAGLAND
 W. S. PAINE
 R. S. SHAW
 S. J. TELLER
 G. R. TRUEDSSON
 H. B. VAN ZELM
 J. C. WARD, JR.

INLAND EMPIRE

Organized: 1921
 Territory: East of Columbia River in State of Washington, and Counties of Okanogan and Benton, and part of Northern Idaho

Place of Meeting: Davenport Hotel, Spokane
 Luncheons Wednesdays at 12:00 noon, Davenport Hotel, Spokane
 Local Organization: Associated Engineers of Spokane
 Number of Members: 26

EXECUTIVE COMMITTEE

E. B. PARKER, *Chairman*
 ALEX. LINDSAY, *Vice-Chairman*
 A. R. KARLSTEN, *Secretary-Treasurer*
 H. F. GAUSS
 D. R. GRAY
 H. H. LANGDON

ITHACA

Organized: 1936
 Territory: Radius of thirty miles from Ithaca plus following cities: Binghamton, Corning, Endicott, Geneva, Painted Post
 Place of Meeting: Willard Straight Hall, Cornell Campus, Ithaca, N.Y.
 Number of Members: 85

EXECUTIVE COMMITTEE

W. M. SAWDON, *Chairman*
 L. C. WILDER, *Vice-Chairman*
 F. S. ERDMAN, *Secretary-Treasurer*
 R. E. KINSMAN
 F. G. SWITZER
 M. P. WHITNEY
 N. R. WICKERSHAM

KANSAS CITY

Organized: 1921
 Territory: Radius of sixty miles from Kansas City, Mo.
 Place of Meeting: University Club
 Local Organization: Engineers' Club of Kansas City
 Number of Members: 135

EXECUTIVE COMMITTEE

E. D. HAY, *Chairman*
 H. L. CRAIN, *Vice-Chairman*
 E. M. BRUZELIUS, *Secretary*
 J. R. STONE, *Treasurer*
 C. E. BROWN
 CHESTER COTTER
 M. A. DURLAND
 H. E. MANUEL
 W. B. ROLLINS
 H. A. SMITH
 R. V. SUTHERLAND

JUNIOR GROUP

H. E. MANUAL, *Chairman*
 G. G. BRAUNINGER, *Secretary-Treasurer*
 E. M. BRUZELIUS
 R. F. GLORE
 R. P. HAHN

LOS ANGELES

Organized: 1915
 Territory: South of southern boundaries of following counties: Monterey, Kings, Tulares, and Inyo, Calif.
 Place of Meeting: Barker Bros. Store
 Local Organization: Technical Societies of Los Angeles

Luncheon Meetings Thursdays at 12:00 noon at Engineers' Club
 Number of Members: 454

EXECUTIVE COMMITTEE

J. ROY HOFFMAN, *Chairman*
 C. H. SMITH, *Vice-Chairman*
 E. K. SPRINGER, *Secretary-Treasurer*
 P. L. ARMSTRONG
 J. C. BROWN
 D. S. CLARK
 B. E. DEL MAR
 S. F. DUNCAN
 A. HOLLANDER
 SCOTT JENSEN
 J. A. WHITAKER

JUNIOR GROUP

B. E. DEL MAR, *Chairman*
 O. R. BROBERG
 R. W. JONES

LOUISVILLE

Organized: 1922
 Territory: Radius of thirty miles from Louisville, Ky.
 Place of Meeting: Engineers and Architects Club of Louisville
 Local Organization: Engineers and Architects Club
 Number of Members: 50

EXECUTIVE COMMITTEE

RAY HASELBERGER, *Chairman*
 M. SACK, *Vice-Chairman*
 L. L. AMIDON, *Secretary*
 W. L. LUCAS, *Treasurer*
 H. H. FENWICK
 J. K. MEYER
 J. A. RABUCK
 J. H. ROMANN

MEMPHIS

Organized: 1923
 Territory: Radius of sixty miles from Memphis, Tenn., and eastern half of Arkansas including all the territory east of a line drawn north and south through the western boundary of the city of Little Rock
 Number of Members: 20

EXECUTIVE COMMITTEE

M. D. RUST, *Chairman*
 W. J. FRANSIOLI, JR., *Vice-Chairman*
 R. B. H. SHEPHERD, *Secretary-Treasurer*
 T. H. ALLEN
 C. M. MCCORD
 W. H. ROBERTS

METROPOLITAN

Organized: 1910
 Territory: Metropolitan District, New York and New Jersey
 Place of Meeting: Engineering Societies Building, 29 West 39th Street, New York, N.Y.
 Number of Members: 3316

EXECUTIVE COMMITTEE

T. B. ALLARDICE, *Chairman*
 E. H. FEZANDIE, *Secretary*
 E. J. BILLINGS, *Treasurer*

METROPOLITAN

(Continued)

F. D. CARVIN, *Chairman of Program Committee*

W. G. BLAKE

P. E. FRANK

W. McC. McKEE

A. R. MUMFORD

O. B. SCHIER, II

J. M. DRISCOLL, *Ex-Officio*

JUNIOR GROUP

SAM SHOOR, *Chairman*C. K. HOLLAND, *Vice-Chairman*A. E. BLIRER, *Secretary*

SIDNEY DAVIDSON

H. B. FERNALD, JR.

W. W. LAWRENCE

H. G. OLIVER, JR.

R. F. WARNER, JR.

MID-CONTINENT

Organized: 1919

Territory: Entire state of Oklahoma; territory in Arkansas not included in Memphis Section; part of Louisiana; and territory in Texas north of the southern boundaries of the counties of Gaines, Dawson, Borden, Scurry, Fisher, Jones, and Shackelford

Place of Meeting: Usually Mayo Hotel, Tulsa, Okla.

Luncheon Meetings with Engineers Club of Tulsa, Mondays at 12:00 noon

Local Organization: Engineers Club of Tulsa

Number of Members: 142

EXECUTIVE COMMITTEE

H. R. AUERSWALD, *Chairman*A. G. BLANCHARD, *Vice-Chairman*L. C. PRICE, *Vice-Chairman*G. RAYMOND, *Vice-Chairman*HENRY SCHAEFER, *Vice-Chairman*MAX WISE, *Secretary*HERMAN WIENECKE, *Treasurer*

E. E. AMBROSIOUS

R. G. AYERS

E. C. BAKER

W. L. DUCKER

W. G. HELTZEL

D. K. HUTCHCRAFT

A. J. KERR

H. T. SEARS

FRANK STIVERS

MILWAUKEE

Organized: 1909

Territory: Radius of fifty miles from Milwaukee, Wis.

Place of Meeting: Wisconsin Club

Local Organization: Engineers' Society of Milwaukee

Luncheon Meetings once each month, 3rd Wednesday at Wisconsin Club

Number of Members: 208

EXECUTIVE COMMITTEE

B. V. E. NORDBERG, *Chairman*A. W. LINDSTROM, *Secretary-Treasurer*

W. D. BLISS

H. DAHLSTRAND

F. H. DORNER

A. H. LUEDICKE

W. C. LINDEMANN

R. C. NEWHOUSE

E. C. SCHUM

A. SIMON

JUNIOR GROUP

G. V. MINIBERGER, *Chairman*R. H. MILLER, *Secretary*

GEORGE FRATCHEE

RUSSELL HAHN

C. A. POFAHL, JR.

W. T. SAVELAND, JR.

ROBERT STRASSMAN

MINNESOTA

Organized: Minneapolis, 1913; St. Paul, 1913; the two Sections merged, 1934

Territory: Entire State of Minnesota

Place of Meeting: Minnesota Union, Univ. of Minnesota

Local Organization: Minneapolis Engineers' Club, Minnesota Federation of Architectural and Engineering Societies

Number of Members: 118

EXECUTIVE COMMITTEE

K. A. POWELL, *Chairman*C. F. SHOOP, *Vice-Chairman*L. G. STRAUB, *Secretary-Treasurer*

N. J. STERNAL

J. C. VANSELOW

NEBRASKA

Organized: 1922

Territory: State of Nebraska, and Council Bluffs, Iowa

Place of Meeting: Lincoln and Omaha

Local Organization: Engineers' Club of Lincoln and Omaha

Luncheon Meeting every Wednesday noon at the Omaha Engineers' Club—4th Monday Evening at Lincoln

Number of Members: 38

EXECUTIVE COMMITTEE

N. H. BERNARD, *Chairman*A. A. LUEBS, *Vice-Chairman*G. A. ROGERS, *Secretary-Treasurer*

J. W. BURNETT

J. H. COLSON

J. L. WHITE

NEW BRITAIN

Organized: 1921, as a Branch of Connecticut Section; reorganized as a Section, 1923

Territory: New Britain, Plainville, Forestville, Bristol, Kensington, and Berlin, Conn.

Place of Meeting: Auditorium of the State Trade School

Number of Members: 39

EXECUTIVE COMMITTEE

B. S. LEWIS, *Chairman*C. N. FLAGG, *Vice-Chairman*H. MICHELSEN, *Secretary-Treasurer*

P. W. BAUER

H. C. BARNES

H. RAMM

C. C. STEVENS

S. H. STONER

NEW HAVEN

Organized: 1912; reorganized, 1923

Territory: Portions of New Haven and Middlesex Counties, Conn.

Place of Meeting: Mason Laboratory, Yale University

Number of Members: 88

EXECUTIVE COMMITTEE

R. A. NORTH, *Chairman*L. H. VON OHLSEN, *Secretary-Treasurer*

W. F. THOMPSON

A. L. BRECKENRIDGE

I. T. HOOK

W. L. TANN

F. J. COCHRAN

NEW ORLEANS

Organized: 1916

Territory: All of Louisiana except the northern part allotted to Mid-Continent Section

Place of Meeting: Room 422, St. Charles Hotel

Local Organization: Louisiana Engineering Society

Number of Members: 98

EXECUTIVE COMMITTEE

K. P. KAMMER, *Chairman*L. J. LASSALLE, *Vice-Chairman*G. R. HAMMETT, *Secretary-Treasurer*

C. A. BENDER

L. J. CUCULLU

J. S. HUEY

J. K. MAYER

JUNIOR GROUP

J. K. MAYER, *Chairman*WALDEMAR NELSON, *Vice-Chairman*R. B. JAMES, *Secretary*E. A. MCLELLAN, *Treasurer*

J. R. ROMBACH, JR.

HENRY VOELKEL

NORTH TEXAS

Organized: 1922

Territory: Radius of one hundred and twenty-five miles from Dallas, in Texas

Place of Meeting: Dallas Power & Light Co. Bldg. Auditorium

Local Organization: Technical Club of Dallas

Number of Members: 93

EXECUTIVE COMMITTEE

N. G. HARDY, *Chairman*C. A. COWLES, JR., *Vice-Chairman*F. C. JUSTICE, *Secretary-Treasurer*

LEONARD COLE

C. L. KRIBS, JR.

R. M. MATSON

W. B. GREGORY, *Ex-Officio*

JUNIOR GROUP

J. K. CHATTEY, *Chairman*

NORWICH

Organized: 1930

Territory: Counties of Tolland, Windham, and New London in Connecticut, and Westerly District in Rhode Island

NORWICH

(Continued)

Place of Meeting: Arcanum Club, 150 Main St., Norwich
Number of Members: 39

EXECUTIVE COMMITTEE

E. S. DENNISON, *Chairman*
A. D. ANDRIOLA, *Secretary-Treasurer*
W. E. EDEL
F. S. ENGLISH
H. LEUHS
A. E. WELCH
R. WOSAK

ONTARIO

Organized: 1917
Territory: Province of Ontario, Canada
Place of Meeting: Hart House, University of Toronto
Number of Members: 161

EXECUTIVE COMMITTEE

S. G. CLARKE, *Chairman*
G. E. ELLSWORTH, *Secretary-Treasurer*
O. H. ANDERSON
W. S. BALL
A. C. BLUE
D. F. CORNISH
C. R. DAVIS
F. G. EAST
R. B. ELLIOTT
W. G. MCINTOSH
W. E. MICKLETHWAITE
R. L. RUDE

JUNIOR GROUP

F. G. EAST, *Chairman*

OREGON

Organized: 1919
Territory: State of Oregon and that territory in Washington within a radius of thirty miles from Portland, Ore.
Place of Meeting: Usually Public Service Bldg., Portland, Ore.
Local Organization: Oregon Society of Engineers
Number of Members: 56

EXECUTIVE COMMITTEE

E. N. BATES, *Chairman*
R. B. ROWAN, *Vice-Chairman*
A. A. OSIPOVICH, *Secretary*
P. L. HESLOP
J. C. OTHUS
TOM PERRY

JUNIOR GROUP

H. JOHNSON, *Chairman*
W. E. CARSON, *Vice-Chairman*
R. R. STEINKE, *Secretary-Treasurer*

PENINSULA

Organized: 1923
Territory: West of the east boundaries of the following counties: Emmet, Charlevoix, Antrim, Kalkaska, Missaukee, Clare, Isabella, Gratiot, Clinton, Eaton, Calhoun, and Branch, Mich.
Place of Meeting: Grand Rapids, Mich.
Luncheon Meeting Fifth Thursday noon each month

Local Organization: Engineers' Club of Grand Rapids
Number of Members: 55

EXECUTIVE COMMITTEE

C. A. HAMILTON, *Chairman*
R. E. KLISE, *Secretary-Treasurer*
C. G. LOHMANN
E. E. NORMAN
B. E. PORTER

PHILADELPHIA

Organized: 1912
Territory: Counties of Bucks, Montgomery, Chester, Philadelphia, Delaware, Pa., and the State of Delaware
Place of Meeting: Philadelphia Engineers' Club, 1317 Spruce Street, Philadelphia, Pa.
Local Organization: Philadelphia Engineers' Club
Luncheon Meeting every Thursday noon at 12:30 p.m. at Philadelphia Engineers' Club
Number of Members: 849

EXECUTIVE COMMITTEE

E. L. HOPPING, *Chairman*
L. P. HYNES, *Vice-Chairman*
J. S. MOREHOUSE, *Secretary-Treasurer*
C. S. GOTWALS
L. N. GULICK
C. C. JONES

JUNIOR GROUP

J. P. CLARK, *Chairman*
T. M. POMEROY, JR., *Vice-Chairman*
J. D. PETERSON, *Secretary*
G. K. FISHER, *Treasurer*
E. W. GRISCOM
R. K. KNIPE
W. B. PEGRAM
Z. T. WOBENSMITH, 2ND

PITTSBURGH

Organized: 1920
Territory: Counties bounded by and including Beaver, Butler, Venango, Forest, Jefferson, Indiana, Somerset, Fayette, Greene, and Washington, Pa.
Place of Meeting: Engineers' Society of Western Pennsylvania, William Penn Hotel
Local Organization: Engineers' Society of Western Pennsylvania
Number of Members: 424

EXECUTIVE COMMITTEE

W. D. CANAN, *Chairman*
M. R. McCONNEL, *Secretary*
K. F. TRESCHOW, *Treasurer*
A. BUTCHER
B. C. MCFADDEN
T. E. PURCELL

PLAINFIELD

Organized: 1921
Territory: Plainfield and territory included between Elizabeth, Bound Brook, Metuchen, and Watchung, N.J.

Place of Meeting: Elizabeth Carteret Hotel, Elizabeth, and Plainfield Masonic Temple, Plainfield
Local Organization: Plainfield Engineers Club, Singer Engineering Society
Number of Members: 192

EXECUTIVE COMMITTEE

D. V. WATERS, *Chairman*
G. E. LEAVITT, JR., *Vice-Chairman*
F. C. SPENCER, JR., *Secretary*
C. G. HOLMBERG, JR., *Treasurer*
R. S. AUSTIN
F. C. FROLANDER
JOHN HAYDOCK
JOSEPH KERR

PROVIDENCE

Organized: 1920
Territory: Radius of thirty miles from Providence, R.I.
Place of Meeting: Providence Engineering Society Building, 195 Angell St., Providence, R.I.
Local Organization: Providence Engineering Society
Number of Members: 156

EXECUTIVE COMMITTEE

H. S. SIZER, *Chairman*
A. W. CALDER, JR., *Vice-Chairman*
R. M. SCOTT, *Secretary-Treasurer*
F. S. BLACKALL, JR.
J. D. ELDELT
J. E. ENGLUND
E. W. FREEMAN
N. D. MACLEOD
S. A. VAULE
R. L. WALES

RALEIGH

Organized: As a Branch, 1923; as a Section, 1927
Territory: Radius of sixty miles from Raleigh, N.C.
Place of Meeting: N.C. State College, Raleigh, N.C.
Local Organization: N.C. Engineering Council, Raleigh Engineers Club
Number of Members: 36

EXECUTIVE COMMITTEE

R. S. WILBUR, *Chairman*
C. E. KERCHNER, *Vice-Chairman*
C. N. SANFORD, *Secretary-Treasurer*
F. F. GROSECLOSE
E. G. HOEFER
F. J. REED

ROCHESTER

Organized: 1919
Territory: Radius of thirty miles from Rochester, N.Y.
Place of Meeting: Rochester Engineering Society Rooms, Sagamore Hotel
Local Organization: Rochester Engineering Society, Sagamore Hotel
Luncheon Meeting every Tuesday at 12:15 p.m. at Sagamore Hotel
Number of Members: 108

ROCHESTER

(Continued)

EXECUTIVE COMMITTEE

J. H. SNYDER, *Chairman*
 I. S. BRADLEY, *Vice-Chairman*
 I. G. MCCHESENEY, *Secretary-Treasurer*
 J. W. GAVETT
 K. H. HUBBARD
 H. F. KURTZ
 P. B. WESSON

ROCK RIVER VALLEY

Organized: 1926
 Territory: Radius of thirty miles from Rockford, Ill., plus members in Madison, Wis.
 Meeting Place: Place varies
 Local Organization: Rockford Engineering Society
 Number of Members: 61

EXECUTIVE COMMITTEE

G. L. LARSON, *Chairman*
 C. L. AVERY, *Vice-Chairman*
 L. A. WILSON, *Secretary*
 B. G. ELLIOTT
 R. C. GLAZEBROOK
 W. C. VON FISCHER
 C. KRAUS, *Junior Member*

ST. JOSEPH VALLEY

Organized: 1929
 Territory: Counties of La Porte, Starke, Pulaski, St. Joseph, Marshall, Fulton, Elkhart, and Kosciusko in Indiana, and Cass and Berrien Counties in Michigan
 Place of Meeting: Morningside Hotel, South Bend, Ind.
 Local Organization: St. Joseph Valley Engineers' Club
 Number of Members: 36

EXECUTIVE COMMITTEE

C. C. WILCOX, *Chairman*
 C. R. ADAMS, *Vice-Chairman*
 K. W. KNORR, *Secretary-Treasurer*

ST. LOUIS

Organized: 1909
 Territory: Radius of thirty miles from St. Louis, Mo.
 Place of Meeting: Place varies
 Local Organization: Engineers' Club of St. Louis
 Number of Members: 208

EXECUTIVE COMMITTEE

D. E. DICKEY, *Chairman*
 ALBERT VIGNE, *Vice-Chairman*
 C. B. BRISCOE, *Secretary-Treasurer*
 C. J. COLLEY
 A. L. HEINTZE
 R. W. MERKLE

SAN FRANCISCO

Organized: 1910
 Territory: All territory north of the northern boundaries of the counties of San Luis Obispo, Kern, and San Bernardino
 Place of Meeting: Engineers' Club, 206 Sansome St.

Luncheon Meetings, Tuesdays, California Hotel, Oakland; Thursdays, Engineers' Club, San Francisco
 Local Organization: San Francisco Engineers' Club
 Number of Members: 385

EXECUTIVE COMMITTEE

G. H. RAITT, *Chairman*
 V. F. ESTCOURT, *Vice-Chairman*
 H. B. LANGILLE, *Secretary-Treasurer*
 WARREN DOBLE, *Corresponding Secretary*
 K. B. ANDERSON
 W. HARRY ARCHER
 H. T. AVERY
 R. B. PLASS
 G. N. SOMERVILLE

JUNIOR GROUP

G. GALE SULLIVAN, *Chairman*
 W. M. BRASHEAR, *Secretary*
 BERT HIRSCH
 J. W. R. LEMERY
 BERT TRUETT
 J. E. ZORN

SAVANNAH

Organized: 1923
 Territory: Radius of 125 miles from Savannah in Georgia
 Place of Meeting: Savannah Hotel
 Local Organization: Engineers' Council of Savannah Chamber of Commerce
 Number of Members: 21

EXECUTIVE COMMITTEE

A. P. KEISKER, *Chairman*
 W. R. BROWN, *Secretary*
 ALEX. M. ORMOND
 LOUIS ROESEL
 BRUCE SAMS

SCHENECTADY

Organized: As a Branch, 1919; as a Section, 1927
 Territory: Radius of thirty miles from Schenectady, N.Y.
 Place of Meeting: Rice Hall
 Number of Members: 172

EXECUTIVE COMMITTEE

A. L. RUIZ, *Chairman*
 S. L. JAMESON, *Vice-Chairman*
 E. E. PARKER, *Vice-Chairman*
 A. R. STEVENSON, JR., *Vice-Chairman*
 R. H. NORRIS, *Secretary*
 CARL SCHABTACH, *Treasurer*
 J. L. FLETCHER
 H. M. OTTO
 O. L. WOOD, JR.

SOUTH TEXAS

Organized: 1919
 Territory: South Texas and the northern part of the State not included in the North Texas Section territory
 Place of Meeting: Electric Bldg., Houston, Tex.
 Number of Members: 171

EXECUTIVE COMMITTEE

J. J. KING, *Chairman*
 C. W. CRAWFORD, *Vice-Chairman*
 H. F. MOLLER, *Secretary-Treasurer*
 HERBERT ALLEN
 D. D. ALTON
 J. W. BERETTA
 A. H. BURR
 H. E. DEGLER
 JOHN DOGGETT, JR.
 H. G. HIEBELER
 F. M. LEVERETT
 J. S. NETHERWOOD
 C. L. ORR

SUSQUEHANNA

Organized: 1927
 Territory: Counties of Cumberland, Dauphine, Lebanon, Adams, York, and Lancaster
 Place of Meeting: Engineering Society of York, and at Lancaster Twice a Year
 Local Organization: Engineering Society of York and Engineers' Society of Pennsylvania, Harrisburg, Pa.
 Number of Members: 79

EXECUTIVE COMMITTEE

W. E. BELINE, *Chairman*
 O. E. WEBER, *Vice-Chairman*
 E. T. P. NEUBAUER, *Secretary*
 E. E. AUGENBAUCH
 T. K. BREDA
 M. G. LEESON
 H. B. MARTIN
 W. NOYES
 GERALD SMITH
 S. P. SOLING

SYRACUSE

Organized: 1920
 Territory: Radius of thirty miles from Syracuse, N.Y.
 Place of meeting: Ball Room of the Onondaga Hotel
 Local Organization: The Technology Club of Syracuse
 Number of Members: 81

EXECUTIVE COMMITTEE

MORRIS F. WILLIAMS, *Chairman*
 R. C. PAUL, *Vice-Chairman*
 E. KEITH RHODES, *Secretary-Treasurer*
 H. B. CRAIG
 C. F. DIETZ
 E. A. FAILMEZGER
 W. F. JONES

TOLEDO

Organized: 1920
 Territory: Radius of thirty miles from Toledo, Ohio
 Place of Meeting: University Club, Toledo, Ohio
 Local Organization: Affiliated Technical Societies of Toledo
 Number of Members: 62

EXECUTIVE COMMITTEE

R. F. HILL, *Chairman*
 H. O. KRANICH, *Vice-Chairman*

TOLEDO

(Continued)

N. R. OHLER, *Secretary-Treasurer*
 C. A. ALEXANDER
 J. W. DEAN
 CARL FRAUTSCHI
 JOHN GILLET
 H. E. HAPPEL
 R. J. MUGFOR
 D. M. PALMER
 W. SCHROEDER
 H. R. SCHULTZ
 H. H. VOGEL
 E. W. WEAVER
 I. F. ZAROSKY

TRI-CITIES

Organized: 1920
 Territory: Radius of thirty miles from Moline, Ill.
 Place of Meeting: Rock Island, Ill., Moline, Ill., and Davenport, Iowa
 Luncheon Meeting every Wednesday, Davenport Hotel, 12:00 noon
 Number of Members: 61

EXECUTIVE COMMITTEE

R. A. CROSS, *Chairman*
 H. A. KLEINMAN, *Vice-Chairman*
 C. A. CARLSON, *Secretary-Treasurer*
 P. E. ANDERSON
 R. M. BARNES
 J. M. HARTMAN

UTAH

Organized: 1923
 Territory: State of Utah
 Place of Meeting: University Club, Salt Lake City
 Local Organization: Utah Society of Engineers
 Number of Members: 40

EXECUTIVE COMMITTEE

H. M. FERGUSON, *Chairman*
 W. D. TURPIN, *Vice-Chairman*
 G. M. JONES, *Secretary*
 R. D. BAKER
 W. H. TRASK, JR.

VIRGINIA

Organized: 1919
 Territory: State of Virginia
 Place of Meeting: Richmond, Norfolk, Charlottesville, Roanoke, University, Petersburg
 Local Organization: Central Virginia Engineers Club
 Number of Members: 142

EXECUTIVE COMMITTEE

G. L. BASCOMBE, *Chairman*
 G. C. MOLLESON, *Vice-Chairman*
 J. B. JONES, *Secretary*
 F. S. ROOP, JR., *Treasurer*
 E. B. BOYNTON
 D. F. EVANS
 L. R. GARDNER
 D. G. MOORHEAD
 W. E. SEGL

WASHINGTON, D.C.

Organized: 1919
 Territory: District of Columbia
 Place of Meeting: Auditorium, Potomac Electric Power Co., 10th & E Sts., Washington, D.C.
 Number of Members: 234

EXECUTIVE COMMITTEE

H. G. THIELSCHER, *Chairman*
 G. F. JENKS, *Vice-Chairman*
 C. E. MILLER, *Secretary-Treasurer*
 A. T. DUPONT
 W. B. ENSINGER
 A. F. JOHNSON
 PAUL WEEKS

WATERBURY

Organized: 1917, as a Branch; reorganized as a Section, 1923
 Territory: Litchfield County and a portion of New Haven County
 Place of Meeting: Elton Hotel
 Number of Members: 73

EXECUTIVE COMMITTEE

W. C. SCHNEIDER, *Chairman*
 L. J. NIEKIRK, *Vice-Chairman*
 R. B. BASS, *Secretary-Treasurer*
 C. W. CHILDS
 A. J. GERMAN
 R. C. PERRY

JUNIOR GROUP

W. B. MCKENZIE, JR., *Chairman*
 R. W. SIMPSON, JR., *Secretary-Treasurer*
 H. C. ASHLEY
 G. N. TYACK

WESTERN MASSACHUSETTS

Organized: 1922
 Territory: Includes counties of Berkshire, Franklin, Hampden, and Hampshire
 Place of Meeting: Highland Hotel, Springfield, Mass.
 Local Organization: Engineering Society of Western Massachusetts
 Number of Members: 87

EXECUTIVE COMMITTEE

J. L. SCHERNER, *Chairman*
 A. H. LEWIS, *Vice-Chairman*
 L. G. CARLTON, *Secretary-Treasurer*
 A. E. BENSON
 LESTER CAMPBELL
 F. R. SHOEMAKER

WESTERN WASHINGTON

Organized: 1919
 Territory: State of Washington west of Columbia River with exception of territory included in 30-mile radius of Portland, Ore.
 Place of Meeting: Engineers' Club, Seattle, Wash.
 Local Organization: Seattle Engineers' Club
 Luncheon Meetings daily at noon at Engineers' Club, Seattle
 Number of Members: 101

EXECUTIVE COMMITTEE

H. J. MCINTYRE, *Chairman*
 EDDY FLOODEN, *Vice-Chairman*
 R. E. WALTER, *Secretary-Treasurer*

H. L. ADAMS
 H. P. FORD
 B. T. MCMINN
 C. J. YOST

WEST VIRGINIA

Organized: 1925
 Territory: State of West Virginia, South of Parallel 39
 Place of Meeting: Charleston, W.Va.
 Number of Members: 60

EXECUTIVE COMMITTEE

C. L. JOHNSON, *Chairman*
 M. S. BLOOMSBURG, *Vice-Chairman*
 H. B. HICKMAN, *Secretary-Treasurer*
 B. B. BETTY
 H. L. CARSPACKEN, JR.
 E. L. HUDSON
 F. LEROY SCHAEFER
 H. C. SKAGGS, JR.

WORCESTER

Organized: 1915
 Territory: Radius of thirty miles from Worcester, Mass.
 Place of Meeting: Sanford Riley Hall, Worcester Poly. Inst.
 Local Organization: Worcester Engineering Society
 Number of Members: 125

EXECUTIVE COMMITTEE

F. R. JONES, *Chairman*
 R. P. KOLB, *Vice-Chairman*
 R. H. WOOD, *Secretary-Treasurer*
 E. K. ALLEN, JR.
 E. N. ARMSTRONG
 H. P. CRANE
 R. F. GOW
 C. M. MCMAHON
 OTTO MULLER
 E. H. SMITH

JUNIOR GROUP

W. M. WILCOX, *Chairman*
 WILFRED OGG, *Vice-Chairman*
 W. H. DAVENPORT, *Secretary-Treasurer*
 W. F. BETH
 J. E. GUILD
 THOS. HILL
 GEO. PALMENTER
 IRWIN PETERSON
 W. S. SNOW
 N. G. STRADTHERR

YOUNGSTOWN

Organized: 1928
 Territory: Counties of Trumbull, Mahoning, and Columbiana in Ohio, and Mercer and Lawrence in Pennsylvania
 Place of Meeting: Republic Rubber Co. Club Rooms, Albert St., Youngstown, Ohio
 Number of Members: 58

EXECUTIVE COMMITTEE

H. W. SMITH, *Chairman*
 L. A. KLINE, *Vice-Chairman*
 C. W. FOARD, *Secretary-Treasurer*
 F. J. BOWERS
 W. B. JENKINS
 H. E. MELIN
 E. O. OYEN

STUDENT BRANCHES

ARTICLE B6A, PAR. 20: The Standing Committee on Relations With Colleges shall, under the direction of the Council, have supervision of the Student Branches of the Society and of such work of the Society as aims to further the education of engineers through the colleges and schools of accepted standing.

STANDING COMMITTEE, RELATIONS WITH COLLEGES

H. O. CROFT, *Chairman* (1940)
E. W. O'BRIEN (1941)
A. C. CHICK (1942)
J. D. CUNNINGHAM (1943)
P. B. EATON (1944)

H. E. DEGLER
S. F. DUNCAN
E. O. EASTWOOD
F. H. PROUTY
G. L. SULLIVAN

} *Advisory*
} *Members*
} (1940)

J. I. YELLOTT, *Junior Adviser* (1940)

Communicate with Student Branch through Honorary Chairman

Name and Location	Year	No. of Author- ized Mem- bers †	Chairman	Secretary	Honorary Chairman
Akron, Univ. of, Akron, Ohio	1924	34	HERBERT DEIST	CHARLES CEHRS	F. S. GRIFFIN
Alabama Polytechnic Inst., Auburn, Ala.	1920	49	F. W. CAYCE	T. R. LODER, JR.	C. R. HIXON
Alabama, Univ. of, University, Ala.	1931	31	J. A. LOMBARD	LEONARD MANDELL	J. M. GALLALEE
Arizona, Univ. of, Tucson, Ariz.	1937	21	ANGUS McVICAR	JOHN KERR	M. L. THORNBURG
Arkansas, Univ. of, Fayetteville, Ark.	1910	18	J. P. JOHNSON	JOSEPH MURRAY	L. C. PRICE
Armour Inst. of Tech., Chicago, Ill.	1909	167	R. W. SCOTT	JOHN CATLIN	DANIEL ROESCH
British Columbia, Univ. of, Vancouver, B.C., Can.	1938	34	R. T. BOGLE	H. J. MORRIS	F. W. VERNON
Brown Univ., Providence, R.I.	1923	17	G. R. KELLER	R. H. STARRETT	S. J. BERARD
Bucknell Univ., Lewisburg, Pa.	1916	12	JOSEPH LINK	SAMUEL FISHER	G. M. KUNKEL
California Inst. of Tech., Pasadena, Calif.	1914	60	G. W. HOFELLER	NEWELL PARTCH	R. L. DAUGHERTY
California, Univ. of, Berkeley, Calif.	1912	129	R. A. SLIPPER	W. M. GAYMAN	G. F. GARLAND
Carnegie Inst. of Tech., Pittsburgh, Pa.	1913	52	W. L. STOVER	G. A. CONNOR	D. C. SAYLOR
Case School of Applied Science, Cleveland, Ohio	1913	89	J. F. LAWLER	W. T. GLOOR	F. H. VOSE
Catholic Univ. of America, Washington, D.C.	1922	30	C. E. CHANEY	R. J. DECESARE	M. W. WESCHLER
Cincinnati, Univ. of, Cincinnati, Ohio	1909	59	GUY ODOM	JAMES TARKINGTON	R. L. SMITH
Clarkson College of Tech., Potsdam, N.Y.	1930	37	R. D. WALSER	W. C. NELLIS	F. A. CLARY
Clemson A.&M. College, Clemson College, S.C.	1921	39	F. C. MILLS	M. W. ACKERMAN	J. H. SAMS
Colorado State College of A.&M. Arts, Fort Collins, Colo.	1914	26	LAWRENCE WILKENS	WILLIAM SUTHERLAND	J. T. STRATE
Colorado, Univ. of, Boulder, Colo.	1914	31	LAWRENCE BURT	ROBERT LAUTH	W. S. BEATTIE
Colorado School of Mines Division, Golden		21	LINCOLN ELKINS	F. R. FISHER	J. C. REED
Columbia University, New York, N.Y.					
Management Division	1909	12			FRED DUTCHER
Mechanical Division	1909	24	R. M. TAYLOR	G. W. PLOSSL	*WALTER RAUTENSTRAUCH
Cooper Union, New York, N.Y.	1920				FRED DUTCHER
Day Division		38	WILTON BREITMAN	ARTHUR SVENSON	E. A. SALMA
Evening Division		80	P. E. HAGERTY	E. G. LUCKEN	E. A. SALMA
Cornell Univ., Ithaca, N.Y.	1908	79	BEACH BARRETT	J. E. BILLINGS	P. H. BLACK
Delaware, Univ. of, Newark, Del.	1929	44	EDWARD SCHWARTZ	W. H. DAWSON	W. F. LINDELL
Detroit, Univ. of, Detroit, Mich.	1930	63	A. J. HOFWEBER, JR.	V. D. POLHLMAYER	F. J. LINSINMEYER
Drexel Inst. of Tech., Philadelphia, Pa.	1920	44	W. W. CATHCART	D. E. WIGFIELD	W. J. STEVENS
Duke Univ., Durham, N.C.	1935	23	H. O. SCHMIDT	D. E. WOOLLARD	F. J. REED
Florida, Univ. of, Gainesville, Fla.	1926	23	C. H. STANTON	A. D. JONES	R. A. THOMPSON
George Washington Univ., Washington, D.C.	1924	37	J. A. HARTMAN	J. C. GOFF	A. F. JOHNSON
Georgia School of Tech., Atlanta, Ga.	1915	48	R. J. WOODDALL	W. B. ASHBY	R. S. HOWELL
Idaho, Univ. of, Moscow, Idaho	1925	38	BARRY MERRILL	EARL JELTER	H. F. GAUSS
Illinois, Univ. of, Urbana, Ill.	1909	166	R. W. ROOSE	K. L. CARTER	D. G. RYAN
Iowa State College, Ames, Iowa	1919	44	EDWARD OTT	JOSEPH BROGAN	R. E. ROUDEBUSH
Iowa, State Univ. of, Iowa City, Iowa	1913	37	J. P. MAY	H. L. YAKISH	H. L. GODEKE
Johns Hopkins Univ., Baltimore, Md.	1917	46	CHARLES FLAGLE	C. D. MONTGOMERY	K. P. HANSON
Kansas State College, Manhattan, Kan.	1914	60	ROBERT PLYE	HARDEN TUBBS	B. B. BRAINARD
Kansas, Univ. of, Lawrence, Kan.	1909	20	C. H. McCABE	J. W. FOGWELL	R. S. TAIT
Kentucky, Univ. of, Lexington, Ky.	1911	24	T. W. COZINE	THOMAS JACKSON	C. C. JETT
Lafayette College, Easton, Pa.	1919	35	ROBERT CORBY	J. E. HAMMERSTONE	P. B. EATON
Lehigh Univ., Bethlehem, Pa.	1911	27	J. F. McQUILLIN	E. R. SNOVEL	T. E. JACKSON
Lewis Inst., Chicago, Ill.	1933	52	E. J. BURROWES	HENRY DEA	J. S. KOZACKA
Louisiana State Univ., University, La.	1916	56	S. A. BROWNING	W. J. SPERIER	G. F. MATTHES
Louisville, Univ. of, Louisville, Ky.	1928	20	C. A. EVANS	B. E. MCKERCHER	L. L. AMDON
Maine, Univ. of, Orono, Maine	1910	48	D. H. CARR	F. S. MARTIN	I. H. PRAGEMAN
Marquette Univ., Milwaukee, Wis.	1923	26	EUGENE THOMA	SEBASTIAN JUDD	R. J. SMITH
Maryland, Univ. of, College Park, Md.	1937	48	F. C. MORRIS	T. G. TIMBERLANE	J. W. HUCKERT
Massachusetts Inst. of Tech., Cambridge, Mass.	1909	114	JOHN McMULLIN, III	W. R. SCHULER	ALVIN SLOANE
Michigan College of Min. & Tech., Houghton	1930	65	PAUL MARTIN	CLYDE TURNER	A. P. YOUNG
Michigan State College, E. Lansing, Mich.	1917	64	G. R. GRENZKE	R. J. MARTIN	C. N. RIX
Michigan, Univ. of, Ann Arbor, Mich.	1914	81	R. S. JONES	R. H. JEFFERS	E. T. VINCENT
Minnesota, Univ. of, Minneapolis, Minn.	1913	142	B. L. ERTSGAARD	L. L. MILLER	C. A. KOEPKE

* Faculty Adviser.

† As of January 1, 1940.

Name and Location	Year Author- ized	No. of Mem- bers	Chairman	Secretary	Honorary Chairman
Mississippi State College, State College, Miss.	1926	61	STANLEY LIVINGSTON	HERMAN BOPP	H. P. NEAL
Missouri School of Mines & Metallurgy, Rolla, Mo.	1930	52	VERNON RIRKE	LYNN RIEGE	A. J. MILES
Missouri, Univ. of, Columbia, Mo.	1909	21	IRWIN TROWBRIDGE	H. E. KETTER	R. L. SCORAH
Montana State College, Bozeman, Mont.	1920	33	D. H. MIKKELSON	JAMES COPENHAVER	R. T. CHALLENGER
Nebraska, Univ. of, Lincoln, Neb.	1909	62	GAIUS CADWELL	B. R. SCHLUCKEBIER	N. H. BARNARD
Nevada, Univ. of, Reno, Nev.	1923	19	M. M. TILLEY	HERMAN KONNERTH	W. H. DAVIDSON
Newark College of Engineering, Newark, N.J.	1924	110	G. L. BREUR	R. P. JOHNSON	F. J. BURNS
New Hampshire, Univ. of, Durham, N.H.	1926	34	A. L. HARDY	H. S. BUTTERWORTH	E. T. DONOVAN
New Mexico State College of A.&M. Arts, State College, New Mex.	1938	16	JOHN VALKENAAR	E. B. PACK	M. T. LEWELLEN
New Mexico, Univ. of, Albuquerque, New Mex.	1935	17	C. W. MERRITT	PHILLIP HOOD	A. D. FORD
New York, College of the City of, New York, N.Y.	1922	53	WILLIAM SCHEINGOLD	CARL MARQUIT	D. A. FISHER
New York University, New York, N.Y. Aeronautic Division	1917	26	B. S. MEAD, JR.	HENRY BYCH	J. M. LABBERTON *F. K. TEICHMANN
Mechanical Division		48	EDWIN BLUESTONE	J. J. FOGEL	J. M. LABBERTON
New York Univ. Evening School, New York, N. Y.	1933	39	W. A. SHAW	F. W. LYNCH, JR.	J. M. LABBERTON
North Carolina State College, Raleigh, N.C.	1920	64	M. M. DALTON	J. H. KENNEDY	F. F. GROSECLOSE
North Dakota Agricultural College, Fargo, N.D.	1929	18	ARTHUR HEWITT	NORMAN GEHLHAR	A. W. ANDERSON
North Dakota, Univ. of, Grand Forks, N.D.	1923	15	F. L. SVORE	STANLEY VOAK	A. J. DIAKOFF
Northeastern Univ., Boston, Mass.	1922	95	T. C. McDONOUGH	R. L. COREY	A. J. FERRETTI
Northwestern Univ., Evanston, Ill.	1935	16	F. P. LOCKARD	FLOYD JACOBSEN	EDWARD OBERT
Notre Dame, Univ. of, Notre Dame, Ind.	1929	37	J. J. LINNEHAN	R. W. WITCHGER	C. C. WILCOX
Ohio Northern Univ., Ada, Ohio	1922	10	R. W. ROTH	ROBERT BOWDEN	J. A. NEEDY
Ohio State Univ., Columbus, Ohio	1911	53	J. M. HELDACK	S. F. WHITEHEAD	PAUL BUCHER
Oklahoma A.&M. College, Stillwater, Okla.	1921	12	JOHN WILLIAMSON, JR.	GERTRUDE HILL	V. W. YOUNG
Oklahoma, Univ. of, Norman, Okla.	1917	83	W. F. FORD	JACK LUCAS	E. M. SIMS
Oregon State Agricultural College, Corvallis, Ore.	1909	33	R. P. LANKOW	C. E. ELSTON	J. C. OTHUS
Pennsylvania State College, State College, Pa.	1909	67	NORMAN YOUNG	ROBERT GUNDEL	C. M. ALLEN
Pennsylvania, Univ. of, Philadelphia, Pa.	1925	46	SAMUEL GRIFFIN	J. R. LYNCH	L. N. GULICK
Pittsburgh, Univ. of, Pittsburgh, Pa.	1917	44	P. F. GIBSON	FRANK KRISTL	I. A. GRADISAR
Polytechnic Inst. of Brooklyn, Brooklyn, N.Y. Day Division	1909	50	WILLIAM ABOKAIR	JACK BABAKIAN	F. W. MING
Evening Division		47	M. R. NICASTRO	W. A. CUSHIE	F. W. MING
Pratt Inst., Brooklyn, N.Y.	1923	72	LEE MAHER	VERNON CLARK	J. W. HUNTER
Princeton Univ., Princeton, N.J.	1926	39	R. S. LOVELACE	F. I. WALSH	A. M. GREENE, JR.
Puerto Rico, Univ. of, Mayaguez, P.R.	1923	31	J. D. MARTINEZ	PEDRO HILERA	GUILLERMO DEYA
Purdue, Univ. of, W. Lafayette, Ind.	1909	152	J. K. BRYAN	T. P. PEPPLER	W. J. COPE
Rensselaer Polytechnic Inst., Troy, N.Y.	1910	75	E. E. HENRY	R. C. JONES	G. K. PALSGROVE
Rhode Island State College, Kingston, R.I.	1930	52	E. A. JOHNSON	W. C. SMITH	L. CARPENTER
Rice Inst., Houston, Tex.	1926	24	S. E. HAGGARD	HARDY JACKSON	C. A. HALL
Rose Polytechnic Inst., Terre Haute, Ind.	1926	32	N. G. EDER	FREDERICK THODAL	CARL WISCHMEYER
Rutgers Univ., New Brunswick, N.J.	1920	33	R. L. LARRABURE	A. M. LIPSKY	N. P. BAILY
Santa Clara, Univ. of, Santa Clara, Calif.	1925	17	W. T. BOX	F. M. BOOTH	R. A. SEBAN
South Dakota State College, Brookings, S.D.	1935	23	EARL BOWAR	ROGER ST. JOHN	R. E. GIBBS
Southern California, Univ. of, Los Angeles, Calif.	1929	33	R. MCS. BRIDGES	J. O. SUFFERON	T. T. EYRE
Southern Methodist Univ., Dallas, Tex.	1933	19	RAYMOND HOLLAND	CHARLES GRIMES	R. M. MATSON
Stanford Univ., Stanford University, Calif.	1909	44	H. P. MOOIJ	F. T. COLLINS	M. S. HUGO
Stevens Inst. of Tech., Hoboken, N.J.	1908	72	M. G. BELINE	STEVEN DANATOS	WILLIAM HALLIDAY
Swarthmore College, Swarthmore, Pa.	1921	22	A. D. COX, JR.	M. G. SMITH	C. G. THATCHER
Syracuse Univ., Syracuse, N.Y.	1912	28	W. N. COLE	WILLIAM NELSON	A. R. ACHESON
Tennessee, Univ. of, Knoxville, Tenn.	1923	52	J. T. EDWARDS	V. A. HINES	R. W. MORTON
Texas, A.&M. College of, College Station, Tex.	1921	160	B. H. BURNS	J. J. WALKER	C. W. CRAWFORD
Texas Technological College, Lubbock, Tex.	1930	34	R. W. HURN	T. C. NOWELL	H. F. GODEKE
Texas, Univ. of, Austin, Tex.	1921	58	J. E. KAINER	W. R. WOOLRICH	V. L. DOUGHTIE
Toronto, Univ. of, Toronto, Ont., Can.	1933	49	J. M. VANWINCKLE	W. F. WOODLEY	R. C. WIREN
Tufts College, Tufts College, Mass.	1917	36	R. W. EDWARDS	G. H. SAWTELL	EDGAR MACNAUGHTON
Tulane Univ. of Louisiana, New Orleans, La.	1933	28	E. L. MURPHY	R. T. BASNETT	E. R. STEPHAN
U. S. Naval Academy, Post-Graduate School, Annapolis, Md.	1925				P. J. KIEFER
Utah, Univ. of, Salt Lake City, Utah	1923	30	GRANT BAGLEY	A. C. MCMASTER	R. D. BAKER
Vanderbilt Univ., Nashville, Tenn.	1928	29	J. M. WRIGHT	C. D. FULTON	J. E. BOYNTON
Vermont, Univ. of, Burlington, Vt.	1922	15	F. A. JOHNSON	F. S. HEATH	E. L. SUSSDORFF
Villanova College, Villanova, Pa.	1925	15	J. A. HECK	CASIMIR KUREK	W. J. BARBER
Virginia Polytechnic Inst., Blacksburg, Va.	1915	72	P. D. DALE	G. G. VIA	F. S. ROOP
Virginia, Univ. of, University, Va.	1923	20	T. G. HOBBS, JR.	C. E. BATCHELDER, JR.	H. C. HESSE
Washington, State College of, Pullman, Wash.	1930	28	J. S. MILLER	D. R. ROSS	F. W. CANDEE
Washington, Univ. of, Seattle, Wash.	1917	62	OTIS LAMSON	R. S. LAING	R. W. CRAIN
Washington Univ., St. Louis, Mo.	1911	34	EDWIN MATHAE	DOUGLAS OWENS	HERBERT KUENZEL
West Virginia Univ., Morgantown, W. Va.	1922	25	R. L. QUEEN	C. J. SNYDER, JR.	H. M. CATHER
Wisconsin, Univ. of, Madison, Wis.	1909	76	R. H. BENNEWITZ	R. E. WRIGHT	B. G. ELLIOTT
Worcester Polytechnic Inst., Worcester, Mass.	1914	41	K. R. BLAISDELL	E. M. BATES, JR.	E. W. ARMSTRONG
Wyoming, Univ. of, Laramie, Wyo.	1925	28	L. C. CLAUSEN	M. H. STEFFENSEN	R. S. SINK
Yale Univ., New Haven, Conn.	1910	34	C. T. ROELKE	DARRAH CORBET, JR.	S. W. DUDLEY

* Faculty Adviser.

RESEARCH TECHNICAL COMMITTEES

ARTICLE B6A, PAR. 24: The Standing Committee on Research shall advise the Council on the research work of the Society.

The first Standing Committee on Research was organized in 1909.

STANDING COMMITTEE

L. W. WALLACE, *Chairman* (1940)
E. G. BAILEY (1941)
W. TRINKS (1942)
M. D. HERSEY (1943)
J. H. WALKER (1944)

LUBRICATION

Appointed October, 1915, to investigate the fundamental problems of lubrication, to formulate results of investigations previously made, and to keep in touch with contemporary research in this field

(Reorganized May, 1936)

G. B. KARELITZ, *Chairman*
S. J. NEEDS, *Secretary*
A. L. BEALL
OSCAR BRIDGEMAN
W. E. CAMPBELL
H. P. DAHLSTRAND
H. A. EVERETT
A. E. FLOWERS
J. C. GENIESSE
RAYMOND HASKELL
M. D. HERSEY
B. F. HUNTER
C. M. LARSON
F. C. LINN
G. L. NEELY
B. L. NEWKIRK
A. E. NORTON
E. S. PEARCE
ERNEST WOOLER

FLUID METERS

Appointed 1916 to develop the theory of fluid meters of all kinds and to report on the best methods for their installation and use

(Reorganized July, 1926)

R. J. S. PIGOTT, *Chairman*
J. R. CARLTON, *Secretary*
H. S. BEAN
S. R. BEITLER
E. O. BENNETT
R. K. BLANCHARD
B. O. BUCKLAND
LOUIS GESS
A. J. KERR
T. H. KERR
M. P. O'BRIEN
W. S. PARDOE
L. K. SPINK
R. E. SPRENKLE
E. C. M. STAHL
T. R. WEYMOUTH
M. J. ZUCROW

THERMAL PROPERTIES OF STEAM

Appointed in December, 1921, to direct research on the thermal properties of water-vapor and steam from 0 C to the upper limits of temperature and pressure

(Reorganized April, 1929)

W. L. ABBOTT, *Vice-Chairman*
H. N. DAVIS
H. C. DICKINSON
A. M. GREENE, JR.
R. C. H. HECK
D. S. JACOBUS
MAX JAKOB
J. H. KEENAN
F. G. KEYES
L. S. MARKS
G. A. ORROK
R. J. S. PIGOTT
H. V. RASMUSSEN
E. L. ROBINSON

STRENGTH OF GEAR TEETH

Appointed in December, 1921. Is investigating factors affecting the strength and life of gear teeth

R. E. FLANDERS, *Chairman*
C. H. LOGUE, *Secretary*
C. G. BARTH
EARLE BUCKINGHAM
A. M. GREENE, JR.
C. W. HAM
F. E. McMULLEN
E. W. MILLER
ERNEST WILDHABER

CUTTING OF METALS

Appointed in September, 1923. Is studying the problems of metal cutting, including tool materials, tool design, lubrication, cooling, and speeds and feeds

M. F. JUDKINS, *Chairman*
L. N. GULICK, *Secretary*
L. P. ALFORD
O. W. BOSTON
R. C. DEALE
A. L. DELEEUW
C. M. THOMPSON, JR.

MECHANICAL SPRINGS

Appointed May, 1924, to determine the status of the mechanical-spring art, to promote and conduct necessary and adequate research, and to develop the art to the point of standardization

J. R. TOWNSEND, *Chairman*
C. T. EDGERTON, *Secretary*
C. E. BARBA
W. G. BROMBACHER
R. W. COOK
W. T. DONKIN
RUPEN EKSERGIAN
G. E. HANSEN
BENJAMIN LIEBOWITZ
DAVID LOFTS
(R. D. BRIZZOLARA, *Alternate*)
D. J. McADAM, JR.
R. E. PETERSON
J. B. REYNOLDS
J. W. ROCKEFELLER, JR.
B. W. ST. CLAIR
M. F. SAYRE
T. R. WEBER
KEITH WILLIAMS

J. K. WOOD
F. P. ZIMMERLI
O. B. ZIMMERMAN

ELEVATORS

Appointed June, 1924, as a subcommittee of the Sectional Committee on Safety Code for Elevators, to study the function and operation of elevator safeties and buffers and their associated mechanisms and to develop methods of test for the approval of elevator safety devices

D. J. PURINTON, *Chairman*
O. P. CUMMINGS, *Vice-Chairman*
J. A. DICKINSON, *Secretary*
BASSETT JONES
D. L. LINDQUIST
M. G. LLOYD
J. J. MATSON
M. B. McLAUTHLIN
W. S. PAINE

EFFECT OF TEMPERATURE ON THE PROPERTIES OF METALS

Appointed December, 1924, as a joint research committee of the A.S.T.M. and the A.S.M.E. to encourage the investigation and accumulation of data on the properties of metals used in the mechanic arts at extremely high and low temperatures

N. L. MOCHEL, *Chairman*
H. J. KERR, *Vice-Chairman*
J. W. BOLTON, *Secretary*
R. H. ABORN
W. H. ARMACOST
A. B. BAGSAR
A. D. BAILEY
F. E. BASH
E. S. DIXON
F. B. FOLEY
J. R. FREEMAN, JR.
H. J. FRENCH
H. W. GILLETT
A. J. HERZIG
G. F. JENKS
J. J. KANTER
C. E. MACQUIGG
P. E. MCKINNEY
E. L. ROBINSON
A. E. WHITE

Director, National Bureau of Standards,
U.S. Department of Commerce
Representative of Bureau of Engineering,
U.S. Navy Department

BOILER FEEDWATER STUDIES

Appointed March, 1925, as a Joint Research Committee of the American Boiler Manufacturers Association, American Railway Engineering Association, American Water Works Association, Edison Electric Institute, the American Society for Testing Materials, and the A.S.M.E. to study methods of analysis and treatment of boiler feed-water for stationary and railroad practice

BOILER FEEDWATER STUDIES

(Continued)

EXECUTIVE COMMITTEE (Total personnel 41)

C. H. FELLOWS, *Chairman*
 R. C. BARDWELL, *Vice-Chairman*
 J. B. ROMER, *Secretary*
 A. G. CHRISTIE *
 R. E. COUGHLIN
 B. W. DE GEER
 MAX HECHT
 H. E. JORDAN
 W. F. KEENAN, JR.
 P. B. PLACE
 S. T. POWELL
 F. N. SPELLER
 M. F. STACK
 E. H. TENNEY
 A. E. WHITE *

CONDENSER TUBES

Appointed May, 1925, to investigate and report on the causes of failure of tubes used in steam condensers and similar heat interchange apparatus

A. E. WHITE, *Chairman*
 D. C. WEEKS, *Vice-Chairman*
 P. A. BANCELL
 D. K. CRAMPTON
 H. M. CUSHING
 R. E. DILLON
 O. B. J. FRASER
 J. R. FREEMAN, JR.
 V. M. FROST
 C. F. HARWOOD
 G. C. HOLDER
 O. Z. KLOPSCH
 H. W. LEITCH
 E. F. MILLER
 W. B. PRICE
 M. F. STACK
 H. A. STAPLES
 W. R. WEBSTER
 Director, Bureau of Engineering, U.S. Navy Department

BOILER FURNACE REFRACTORIES

Appointed June, 1925, to determine the principal factors governing the failure of refractories in various types of installations, to subject these factors to detailed experimental analysis, to undertake the formulation of suitability tests and, if necessary, to attempt to develop a suitable refractory to meet the needs of severe service

W. A. CARTER, *Chairman*
 S. H. BARNUM
 G. A. BOLE
 M. C. BOOZE
 W. H. FULWEILER
 C. B. GRADY
 R. A. HEINDL
 R. K. HURSH
 N. E. LEWIS
 J. S. McDOWELL
 (F. A. HARVEY, *Alternate*)
 S. J. McDOWELL
 PERCY NICHOLLS
 S. M. PHELPS
 E. B. POWELL
 R. A. SHERMAN
 R. B. SOSMAN
 L. J. TROSTEL
 G. B. WILKES

* Official A.S.M.E. representatives serving on this committee.

WORM GEARS

Appointed May, 1927, to investigate certain problems in connection with the action of worm gear drives and to recommend improvements in their design, manufacture, and use

EARLE BUCKINGHAM, *Chairman*
 G. H. ACKER
 L. R. BUCKENDALE
 W. H. HIMES
 D. L. LINDQUIST
 A. A. ROSS
 B. F. WATERMAN
 Representative of Bureau of Engineering,
 U.S. Navy Department

MEASURES OF MANAGEMENT

Appointed March, 1928, to attempt the reconciliation of certain economic laws affecting production, to develop formulas for management, and to collect and report information on management research

W. E. FREELAND, *Chairman*
 F. E. RAYMOND, *Secretary*
 J. H. BARBER
 T. H. BROWN
 R. C. DAVIS
 G. E. HAGEMANN

ABSORPTION OF RADIANT HEAT IN BOILER FURNACES

Appointed April, 1928, to make a study of the absorption of radiant heat in boiler furnaces with the purpose of developing recommendations on improved furnace design

W. J. WOHLNBERG, *Chairman*
 E. G. BAILEY
 R. M. GATES
 C. W. GORDON
 E. L. LINDSETH
 G. A. ORROK
 R. J. S. PIGOTT
 JOHN VAN BRUNT

STRENGTH OF VESSELS UNDER EXTERNAL PRESSURE

Appointed June, 1929, to develop reliable design data on the strength of cylindrical and spherical surfaces under external pressure, particularly with reference to jacketed vessels

W. D. HALSEY, *Chairman*
 F. V. HARTMAN
 M. B. HIGGINS
 A. W. LIMONT, JR.
 H. E. SAUNDERS
 E. E. SHANOR
 D. B. WESTSTROM
 F. S. G. WILLIAMS
 D. F. WINDENBURG

WIRE ROPE

Appointed April, 1930, to investigate existing rope so that it may be better understood and more effectively used

W. H. FULWEILER, *Chairman*
 H. LER. BRINK
 D. L. LINDQUIST
 G. W. MARTIN

C. A. McCUNE
 A. H. McDUGALL
 B. V. E. NORDBERG, JR.
 W. S. PAINE
 W. J. RYAN
 GEORGE SIMPSON
 L. E. YOUNG

CRITICAL PRESSURE STEAM BOILERS

Appointed June, 1931, to study the characteristics of high-pressure forced-circulation steam-generating units

H. L. SOLBERG, *Chairman*
 W. H. ARMACOST
 A. D. BAILEY
 E. G. BAILEY
 F. S. CLARK
 C. H. FELLOWS
 H. J. KERR
 M. W. LINK
 G. A. ORROK
 E. L. ROBINSON
 P. W. THOMPSON

COTTONSEED PROCESSING

Appointed December, 1932, to study the mechanical problems involved in storing, conditioning, and cooking cottonseed meats

W. R. WOOLRICH, *Chairman*
 HOMER BARNES
 E. L. CARPENTER
 C. E. GARNER
 B. J. SAMS
 R. B. TAYLOR

ROLLING OF STEEL (PLASTICITY)

Appointed October, 1938, to study plasticity in the particular field of rolling of steel

W. TRINKS, *Chairman*
 E. C. BAIN
 C. L. EKSERGIAN
 J. H. HITCHCOCK
 G. B. KARELITZ
 C. W. MACGREGOR
 A. NADAI
 MORRIS STONE

A.S.M.E. Representatives on Other Research Committees

See also A.S.M.E. Representatives on Other Activities, page RI-5

AMERICAN COORDINATING COMMITTEE ON CORROSION

American Society for Testing Materials

S. L. KERR
 (C. H. FELLOWS, *Alternate*)

CORROSION COMMITTEE

American Society of Refrigerating Engineers

(To be appointed)

FATIGUE PHENOMENA OF METALS

American Society for Testing Materials

C. T. EDGERTON

HEAT-TREATMENT OF ROCK DRILL
STEELS*Advisory Board of the National Bureau of
Standards and Bureau of Mines*

(To be appointed)

METALLURGICAL RESEARCH

*Advisory Committee to the National Bureau
of Standards*

C. H. BIERBAUM

PROPERTIES OF REFRACTORY
MATERIALS*Advisory Committee to the National Bureau
of Standards*

E. B. POWELL

WATER FOR INDUSTRIAL USES

American Society for Testing Materials

J. H. WALKER

STANDARDIZATION TECHNICAL COMMITTEES

ARTICLE B6A, PAR. 23: The Standing Committee on Standardization shall advise the Council on the dimensional standardization work of the Society, including relations with the American Standards Association.

The first Standing Committee on Standardization was organized in April, 1911.

STANDING COMMITTEE

W. C. MUELLER, *Chairman* (1940)

A. L. BAKER (1941)

J. E. LOVELY (1942)

J. R. WEAVER (1943)

T. E. FRENCH (1944)

STANDARDIZATION AND UNIFICA-
TION OF SCREW THREADS (B1)

** Joint sponsorship with the Society of
Automotive Engineers. Sectional Committee
originally organized in June, 1921. Reor-
ganized in February, 1929*

A.S.M.E. Members (Total personnel, 35)

R. E. FLANDERS, *Chairman* †EARLE BUCKINGHAM, *Secretary*

E. J. BRYANT

G. S. CASE

T. G. CRAWFORD

A. M. HOUSER †

H. C. E. MEYER

P. V. MILLER †

W. C. MUELLER

R. H. PERRY

O. B. ZIMMERMAN

SUBCOMMITTEE CHAIRMEN

No. 1 on Scope, Arrangement, and Editing
of American National Standard, R.
E. FLANDERSNo. 2 on Terminology and Thread Specifica-
tions, Except Gages, C. W. BETTCHERNo. 3 on Special Threads and Twelve Pitch
Series, Except GagesNo. 4 on Acme and Other Similar Threads,
Except Gages, EARLE BUCKINGHAMNo. 5 on Screw Thread Gages and Inspec-
tion, G. S. CASE

No. 7 on Wood Screws, ARTHUR BOOR

Special Subcommittee on Revision of Ameri-
can Standard, P. V. MILLER

* Note: All of these standards committees
for which the Society is sponsor or joint
sponsor, or on which it has representation,
are organized under the procedure of the
American Standards Association.

† Official A.S.M.E. representative serving
on this committee.

PIPE THREADS (B2)

** Joint sponsorship with the American Gas
Association. Sectional Committee originally
organized in 1913. Reorganized May, 1927*

A.S.M.E. Members (Total personnel, 46)

A. S. MILLER, *Chairman*C. B. LEPAGE, *Acting Secretary*

A. F. BREITENSTEIN

E. J. BRYANT

C. S. COLE

E. S. CORNELL, JR.

J. J. CROTTY

A. P. DENTON

J. J. HARMAN

A. M. HOUSER †

A. H. JARECKI

P. V. MILLER

F. H. MOREHEAD

W. C. MORRIS

S. F. NEWMAN

L. N. SHANNON

W. D. SIZER

J. H. WILLIAMS

SUBCOMMITTEE CHAIRMEN

No. 1 on Editing and Gaging, A. M. HOUSER

No. 2 on Taper Pipe Threads, S. B. TERRY

No. 3 on Straight Pipe Threads, A. S.
MILLERNo. 4 on Plumbers' Threads, A. F. BREITEN-
STEINNo. 5 on Screw Threads for Rigid Steel
Conduit, JAMES BARTONNo. 6 on Special Threads for Thin Tubes,
C. C. WINTERSpecial Subcommittee on Truncation, E. J.
BRYANT

BALL AND ROLLER BEARINGS (B3)

** Joint sponsorship with the Society of
Automotive Engineers. Sectional Committee
organized December, 1920*

A.S.M.E. Members (Total personnel, 14)

W. P. KENNEDY, *Vice-Chairman* †

D. E. BATESOLE †

L. A. CUMMINGS

F. G. HUGHES

G. E. HULSE †

L. F. NENNINGER

ERNEST WOOLER

ALLOWANCES AND TOLERANCES
FOR CYLINDRICAL PARTS AND
LIMIT GAGES (B4)

** Sole sponsorship. Sectional Committee
originally organized in June, 1920. Reor-
ganized in September, 1930*

A.S.M.E. Members (Total personnel, 43)

J. E. LOVELY, *Chairman* †

F. E. BANFIELD, JR.

F. S. BLACKALL, JR.

E. J. BRYANT

EARLE BUCKINGHAM †

F. H. COLVIN †

T. G. CRAWFORD

R. E. W. HARRISON

F. O. HOAGLAND

N. E. JACOBI

H. C. E. MEYER

P. V. MILLER

W. C. MUELLER

E. C. PECK †

R. H. PERRY

W. C. SCHOENFELDT

C. C. STEVENS

O. B. ZIMMERMAN

SUBCOMMITTEE CHAIRMAN

No. 1 on Tolerance Systems, R. E. W.
HARRISONSMALL TOOLS AND MACHINE TOOL
ELEMENTS (B5)

** Joint sponsorship with the National Ma-
chine Tool Builders Association and the So-
ciety of Automotive Engineers. Sectional
Committee organized September, 1922*

A.S.M.E. Members (Total personnel, 25)

W. C. MUELLER, *Chairman* †F. O. HOAGLAND, *Vice-Chairman*

J. B. ARMITAGE

O. W. BOSTON

E. J. BRYANT

EARLE BUCKINGHAM

F. H. COLVIN †

S. A. EINSTEIN

H. E. HARRIS †

JOHN HAYDOCK

J. P. LAUX †

J. E. LOVELY

ERIK OBERG

SMALL TOOLS AND MACHINE TOOL
ELEMENTS (*Continued*)

TECHNICAL COMMITTEES

No. 1 ON T-SLOTS

A.S.M.E. Members (Total personnel, 7)

ERIK OBERG, *Chairman* †
J. B. ARMITAGE
HARRY CADWALLADER, JR. †
S. A. EINSTEIN
F. O. HOAGLAND †

No. 2 ON TOOL POSTS AND TOOL SHANKS

A.S.M.E. Members (Total personnel, 8)

O. W. BOSTON, *Chairman*
F. S. BLACKALL, JR.
GRANGER DAVENPORT †
M. E. LANGE

No. 3 ON MACHINE TAPERS

A.S.M.E. Members (Total personnel, 20)

E. J. BRYANT, *Chairman* †
C. B. LEPAGE, *Acting Secretary*
J. B. ARMITAGE
F. S. BLACKALL, JR.
EARLE BUCKINGHAM †
F. H. COLVIN
J. B. DILLARD
(T. F. GITHENS, *Alternate*)
B. P. GRAVES
H. E. HARRIS
F. O. HOAGLAND †
J. H. HORIZAN
A. H. LYON
L. F. NENNINGER

SUBGROUP CHAIRMEN

Steep Tapers Series, S. McMULLAN
Revision of Slow Taper Standard, E. J.
BRYANT

No. 4 ON SPINDLE NOSES AND COLLETS FOR
MACHINE TOOLS

A.S.M.E. Members (Total personnel, 26)

J. E. LOVELY, *Chairman* †
L. F. NENNINGER, *Secretary*
J. B. ARMITAGE
B. P. GRAVES
F. O. HOAGLAND †
A. M. JOHNSON
M. E. LANGE
J. H. MANSFIELD
L. D. SPENCE

SUBGROUP CHAIRMEN

- No. 1 on Milling Machines, Small and Medium, J. B. ARMITAGE
- No. 2 on Large Milling Machines, F. B. KAMPMEIER
- No. 3 on Grinding Machine Spindles, H. J. GRIFFING
- No. 5 on Drilling Machines and Horizontal Boring Machines, S. McMULLAN
- No. 6 on Turning Machines, Including Automatic Screw Machines, Lathes, Automatic Lathes, Turret Lathes, and Automatic Chucking Machines, J. E. LOVELY
- No. 8 on Correlation of Counter Proposals for Spindle Noses, J. E. LOVELY

No. 5 ON MILLING CUTTERS

A.S.M.E. Members (Total personnel, 20)

J. B. ARMITAGE
A. N. GODDARD †
J. H. HORIZAN
G. L. MARKLAND, JR.
E. K. MORGAN
ERIK OBERG †
E. D. VANCIL

SUBGROUP CHAIRMEN

- No. 1 on Profile Cutters, E. D. VANCIL
- No. 2 on Keyways, J. B. ARMITAGE
- No. 3 on Nomenclature, A. C. DANEKIND
- No. 4 on Limits, J. H. HORIZAN
- No. 5 on Formed Cutters, H. C. HUNGERFORD
- No. 6 on Hobs, G. L. MARKLAND, JR.
- No. 7 on Inserted Tooth Cutters, J. B. ARMITAGE

No. 6 ON DESIGNATIONS AND WORKING
RANGES OF MACHINE TOOLS

A.S.M.E. Members (Total personnel, 19)

JOHN HAYDOCK, *Chairman*
EARLE BUCKINGHAM †
T. H. DOAN, JR.
B. P. GRAVES †
J. J. MCBRIDE
E. R. SMITH

No. 7 ON TWIST DRILL SIZES

A.S.M.E. Members (Total personnel, 7)

W. C. MUELLER, *Chairman* †
J. H. HORIZAN †

No. 8 ON JIG BUSHINGS

A.S.M.E. Member (Total personnel, 8)

J. H. HORIZAN †

No. 9 ON PUNCH PRESS TOOLS

A.S.M.E. Members (Total personnel, 15)

D. H. CHASON
N. W. DORMAN
H. E. HARRIS †
D. M. PALMER

No. 10 ON FORMING TOOLS AND HOLDERS

A.S.M.E. Members (Total personnel, 9)

W. C. MUELLER, *Chairman* †
WILLIAM HARTMAN †
L. D. SPENCE

No. 11 ON CHUCKS AND CHUCK JAWS

A.S.M.E. Member (Total personnel, 10)

J. E. LOVELY, *Chairman* †

SUBGROUP CHAIRMAN

- No. 1 on Master Chuck Jaws, J. E. LOVELY
- No. 2 on Adapters for Air Cylinders, J. E. LOVELY

No. 12 ON CUT AND GROUND THREAD TAPS

(Total personnel, 7)

No. 13 ON SPLINES AND SPLINED SHAFTS

A.S.M.E. Members (Total personnel, 14)

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Automotive Splines, W. L. BARTH
Involute Splines, C. K. LENNING

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AND MACHINE TOOL ELEMENTS

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A.S.M.E. Members (Total personnel, 2)

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No. 20 ON REAMERS

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No. 21 ON TOOL-LIFE TESTS FOR SINGLE-
POINT TOOLS

(Being organized)

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** Joint sponsorship with the American Gear Manufacturers Association. Sectional Committee organized June, 1921*

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- No. 2 on Editing Reports
- No. 3 on Nomenclature, D. T. HAMILTON
- No. 4 on Tooth Form (Spur Gears), U. S. EBERHARDT
- No. 5 on Helical Gears, W. P. SCHMITTER
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GEARS (Continued)

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 No. 9 on Inspection, J. P. BREUER
 No. 10 on Horsepower Rating, EARLE BUCK-
 INGHAM

PIPE FLANGES AND FITTINGS (B16)

** Joint sponsorship with the Heating, Pip-
 ing, and Air Conditioning Contractors Na-
 tional Association and the Manufacturers
 Standardization Society of the Valve and
 Fittings Industry. Sectional Committee or-
 ganized October, 1921*

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 A. M. HOUSER
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 J. R. KRUSE (JOHN BLIZARD, *Alternate*)
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 No. 2 on Screwed Fittings, F. H. MOREHEAD
 No. 3 on Steel Flanges and Flanged Fit-
 tings, C. P. BLISS
 No. 4 on Materials and Stresses, A. M.
 HOUSER
 No. 5 on Face to Face Dimensions of Fer-
 rous Flanged Valves, J. R. TANNER
 No. 6 on Malleable Iron or Steel Brass
 Seat Unions
 No. 7 on Rating of Pipe Fittings
 No. 8 on Marking of Pipe Fittings
 No. 9 on Port Openings, W. W. HUBBARD

SHAFTING (B17)

** Sole sponsorship. Organized October, 1918*

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BOLT, NUT, AND RIVET PROPOR-
TIONS (B18)

** Joint sponsorship with the Society of
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 organized March, 1922*

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 B. G. BRAINE
 G. S. CASE
 T. G. CRAWFORD
 H. P. FREAR
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 No. 3 on Slotted Head Proportions
 No. 4 on Track Bolts and Nuts
 No. 5 on Round Unslotted Head Bolts
 (Carriage Bolts), M. C. HORINE
 No. 6 on Plow Bolts, O. B. ZIMMERMAN
 No. 7 on Body Dimensions and Materials
 No. 8 on Nomenclature, G. S. CASE
 No. 9 on Socket Head Cap and Set Screws,
 HERMAN KOESTER

PLAIN AND LOCK WASHERS (B27)

** Joint sponsorship with the Society of
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 tee organized August, 1925*

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 T. G. CRAWFORD
 B. S. LEWIS †
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 No. 2 on Lock Washers, A. W. MELLOWES

TRANSMISSION CHAINS AND
SPROCKETS (B29)

** Joint sponsorship with the Society of
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 Committee organized September, 1917. Re-
 organized December, 1926*

A.S.M.E. Members (Total personnel, 15)

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 JOSEPH JOY
 L. V. LUDY †
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SUBCOMMITTEE CHAIRMEN

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 No. 2 on Silent Chain Standardization, G.
 A. YOUNG

CODE FOR PRESSURE PIPING (B31)

** Sole sponsorship. Sectional Committee or-
 ganized March, 1926. Reorganized Decem-
 ber, 1937*

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 SABIN CROCKER
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 G. G. HOLLINS
 E. L. HOPPING
 A. M. HOUSER †
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 G. W. MARTIN
 H. C. E. MEYER
 J. W. MOORE
 (J. D. CAPRON, *Alternate*)
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 G. W. SAATHOFF
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 LUDWIG SKOG
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 No. 2 on Power Piping, ALFRED IDDLIES
 No. 4 on Gas and Air Piping, J. S. HAUG
 No. 5 on Refrigeration Piping, A. H. BAER
 No. 6 on Oil Piping, A. D. SANDERSON
 No. 7 on Piping Materials and Identifica-
 tion, F. H. MOREHEAD
 No. 8 on Fabrication Details, LUDWIG SKOG
 No. 9 on Code for District Heating Piping,
 G. K. SAURWEIN

WIRE AND SHEET METAL GAGES
(B32)

** Joint sponsorship with the Society of
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 organized November, 1927. Reorganized,
 November, 1939*

A.S.M.E. Members (Total personnel, 33)

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 A. P. COTTLE
 J. F. HOWE †
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WIRE AND SHEET METAL GAGES
(Continued)

SUBCOMMITTEE CHAIRMAN

Wire and Sheet Metal Gages, H. W. TENNEY

SCREW THREADS FOR HOSE
COUPLINGS (B33)* Sole sponsorship. Sectional Committee
organized August, 1928

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W. L. CURTISS
W. E. DUNHAM †
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No. 2 on Basic Thread Dimensions, D. R.
MILLER

WROUGHT IRON AND WROUGHT
STEEL PIPE AND TUBING
(B36)* Joint sponsorship with the American So-
ciety for Testing Materials. Sectional Com-
mittee organized April, 1928

A.S.M.E. Members (Total personnel, 44)

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SUBCOMMITTEE CHAIRMEN

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No. 2 on Pipe and Tubing for Low Tem-
perature Service, J. J. SHUMAN
No. 3 on Pipe and Tubing for High Tem-
perature Service, J. R. TANNER
No. 4 on Materials, F. H. MOREHEAD

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(B40)* Sole sponsorship. Sectional Committee
organized July, 1930

A.S.M.E. Members (Total personnel, 44)

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A. W. LENDEROTH, *Secretary* †
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C. H. GRAESSER
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No. 2 on Definitions, C. F. SCHWEP
No. 3 on Gage Sizes and Mounting Dimen-
sions, H. B. REYNOLDS
No. 4 on Accuracy and Test Methods, O. J.
HODGE

STOCK SIZES, SHAPES AND LENGTHS
FOR HOT AND COLD FINISHED
IRON AND STEEL BARS (B41)* Sole sponsorship. Sectional Committee
organized April, 1929

A.S.M.E. Members (Total personnel, 27)

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L. W. WILLIAMS †
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SUBCOMMITTEE CHAIRMEN

No. 1 on Hot Rolled Steel, HENRY WYSOR
No. 2 on Cold Finished Steels, L. E.
CREIGHTON
No. 3 on Hot Rolled Iron

SPECIFICATIONS FOR LEATHER
BELTING (B42)* Sole sponsorship. Sectional Committee
organized February, 1931

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G. A. SCHIEREN
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BOWKER
No. 2 on Recommendations for Selection,
Care, and Installation, G. A.
SCHIEREN

MACHINE PINS (B43)

* Joint sponsorship with the Society of
Automotive Engineers. Sectional Committee
organized March, 1926

A.S.M.E. Members (Total personnel, 14)

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H. C. E. MEYER
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SUBCOMMITTEES

No. 1 on Straight, Taper, and Dowel Pins
No. 2 on Split Pins

CLASSIFICATION AND DESIGNATION
OF SURFACE QUALITIES (B46)* Joint sponsorship with the Society of
Automotive Engineers. Sectional Commit-
tee organized May, 1932

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Abrasives, JOHN CETRULE
No. 2 on Surfaces Produced by Molds, Dies,
Rolls, or Any Other Means of De-
forming Materials
No. 3 on Coated Surfaces, G. B. HOGABOOM
No. 4 on Symbols for Indicating Surface
Quality on Drawings, T. G. CRAWFORD
No. 5 on Ways, Means, and Apparatus for
Measuring Quality of Surface, J. R.
WEAVER
No. 6. on Finance, R. E. W. HARRISON

SCHEME FOR IDENTIFICATION OF
PIPING SYSTEMS (A13)* Joint sponsorship with the National Safety
Council. Sectional Committee organized
June, 1922

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CROSBY FIELD
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Identification by Colors
Classification, CROSBY FIELD
Identification Markings Other Than Color

COMBUSTION SPACE FOR SOLID
FUELS (B50)* Sole sponsorship. Sectional Committee
organized June, 1933

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No. 2 on Combustion and Design, B. M. GUTHRIE
No. 3 on Warm Air Furnaces, J. H. MANNY
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No. 5. on Cast Iron Boilers, J. F. McINTIRE

MINIMUM REQUIREMENTS FOR PLUMBING AND STANDARDIZATION OF PLUMBING EQUIPMENT (A40)

** Joint sponsorship with the American Society of Sanitary Engineering. Sectional Committee organized August, 1928*

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No. 7 on Brass Fittings for Flared Copper Tubes, F. L. RIGGIN
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No. 9 on Gasoline, Oil, and Grease Separators, J. J. CROTTY
No. 11 on Soldered Fittings for Tubing, A. M. HOUSER
No. 12 on Minimum Air Gaps in Plumbing Systems, W. K. McAFEE

Joint Committee on Threaded Cast Iron Pipe, F. H. MOREHEAD

ELECTRIC MOTOR FRAME DIMENSIONS (C28)

** Joint Sponsorship with the National Electrical Manufacturers Association. Sectional Committee organized November, 1927*

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ROLLED THREADS FOR SCREW SHELLS OF ELECTRIC SOCKETS AND LAMP BASES (C44)

** Joint sponsorship with the National Electrical Manufacturers Association. Sectional Committee organized March, 1929*

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LETTER SYMBOLS AND ABBREVIATIONS FOR SCIENCE AND ENGINEERING (Z10)

** Joint sponsorship with the American Association for the Advancement of Science, American Institute of Electrical Engineers, American Society of Civil Engineers, and the Society for the Promotion of Engineering Education. Sectional Committee organized January, 1926. Reorganized October, 1935*

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No. 2 on Symbols for Hydraulics, J. C. STEVENS
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No. 11 on Abbreviations for Engineering and Scientific Terms, G. A. STETSON

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** Sole sponsorship. Sectional Committee organized November, 1926*

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No. 3 on Preferred Practice for Time Series Charts, A. H. RICHARDSON
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** Sole sponsorship. Sectional Committee organized May, 1928*

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No. 2 on Questionnaire and Canvass to Industry, F. S. ENGLISH
No. 3—Special Reviewing Committee

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** Joint sponsorship with American Institute of Electrical Engineers. Sectional Committee organized April, 1936*

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DEVELOPMENT OF APPLICATIONS
OF STATISTICS IN ENGINEERING
AND MANUFACTURING

Joint Sponsorship with the American Society for Testing Materials. Appointed in December, 1929

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A. S. M. E. Representatives on
Miscellaneous Standardization
Committees

See also A.S.M.E. Representatives on Other Activities, page RI-5

ACOUSTICAL MEASUREMENTS AND
TERMINOLOGY

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CLASSIFICATION OF COALS

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TERMS

** Sponsor body: American Institute of Electrical Engineers*

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DRAINAGE OF COAL MINES

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METHODS OF TESTING WOOD

** Sponsor bodies: U.S. Forest Service and the American Society for Testing Materials*

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MISCELLANEOUS OUTSIDE COAL-
HANDLING EQUIPMENT

** Sponsor body: American Mining Congress*
(To be appointed)

PETROLEUM PRODUCTS AND
LUBRICANTS

** Sponsor body: American Society for Testing Materials*

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(H. J. MASSON, Alternate)
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K. H. CONDIT

RATING OF RIVERS

** Sponsor body: U.S. Geological Survey*

D. W. MEAD

ROTATING ELECTRICAL MACHINERY

** Sponsor bodies: American Institute of Electrical Engineers and National Electrical Manufacturers Association*

C. A. BOOTH, Alternate

SPECIFICATIONS FOR CAST IRON
PIPE AND SPECIAL CASTINGS

** Sponsor bodies: American Gas Association, American Society for Testing Materials, American Water Works Association, and the New England Water Works Association*

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BITUMINOUS COAL

** Sponsor body: American Institute of Mining and Metallurgical Engineers*

R. A. SHERMAN
(E. L. LINDSETH, Alternate)

SPECIFICATIONS FOR FIRE TESTS
OF BUILDING CONSTRUCTION
AND MATERIALS

** Sponsor bodies: A.S.A. Fire Protection Group, National Bureau of Standards, and the American Society for Testing Materials*

R. C. PARLETT

SPECIFICATIONS FOR SIEVES FOR
TESTING PURPOSES

** Sponsor bodies: American Society for Testing Materials and National Bureau of Standards*

R. M. HARDGROVE

THERMAL INSULATING MATERIALS

Committee of American Society for Testing Materials

R. H. HEILMAN

VOLUME WATER HEATING

Committee of American Gas Association

MARK RESEK

WIRE ROPE FOR MINES

** Sponsor body: American Mining Congress*

J. L. HARRINGTON

SAFETY TECHNICAL COMMITTEES

ARTICLE B6A, PAR. 25: The Standing Committee on Safety shall advise the Council on the activities of the Society having to do with engineering and industrial safety, except the activities of the Boiler Code Committee, for which special provision is made.

The first Standing Committee on Safety was appointed in October, 1921.

STANDING COMMITTEE

T. F. HATCH, *Chairman* (1941)
D. L. ROYER (1940)
A. W. LUCE (1942)
A. E. WINDLE (1943)
H. C. HOUGHTON (1944)

SAFETY CODE FOR ELEVATORS (A17)

** Joint Sponsorship with the American Institute of Architects and the National Bureau of Standards. Sectional Committee organized November, 1922*

A.S.M.E. Members (Total personnel, 41)

O. P. CUMMINGS, *Vice-Chairman*
C. R. CALLAWAY
D. L. HOLBROOK †
D. L. LINDQUIST
N. O. LINDSTROM †
M. B. McLAUTHLIN
W. S. PAINE

SUBCOMMITTEE CHAIRMEN

Research, Recommendations, and Interpretations, D. J. PURINTON
Inspectors' Handbook, K. A. COLAHAN
Elevator Systems Safe Against Fire, W. S. PAINE
Interlocks and Hoistway Enclosures, B. JONES

SAFETY CODE FOR MECHANICAL POWER-TRANSMISSION APPARATUS (B15)

** Joint sponsorship with the International Association of Industrial Accident Boards and Commissions and the National Conservation Bureau. Sectional Committee organized February, 1921*

A.S.M.E. Members (Total personnel, 31)

G. M. NAYLOR, *Chairman* †
P. G. RHODES, *Secretary*
C. C. FOSTER
W. W. NICHOLS
W. S. PAINE
D. C. WRIGHT †
(G. N. VAN DERHOEF, *Alternate*) †

SUBCOMMITTEE CHAIRMEN

- No. 1 on Detail Classification of Belts
- No. 2 on Modification of Rule 223 for Cone Pulley Belts
- No. 3 on Mechanical Power Control, W. S. PAINE
- No. 4 on Use of ASA Code Versus State Codes
- No. 5 on Statistics on Place of Occurrence of Accidents
- No. 6 on V-Belt Drives, D. M. JOHNSON

* Note: All of the safety committees for which the Society is sponsor or joint sponsor, or on which it has representation, are organized under the procedure of the American Standards Association.

† Official A.S.M.E. representative serving on this committee.

SAFETY CODE ON COMPRESSED AIR MACHINERY AND EQUIPMENT (B19)

** Joint sponsorship with the American Society of Safety Engineers—Engineering Section, National Safety Council. Sectional Committee organized May, 1923*

A.S.M.E. Members (Total personnel, 24)

D. L. ROYER, *Chairman*
H. D. EDWARDS
W. J. GRAVES

SAFETY CODE FOR CONVEYORS AND CONVEYING MACHINERY (B20)

** Joint Sponsorship with the National Conservation Bureau. Sectional Committee organized November, 1925, Reorganized, April 1937*

A.S.M.E. Members (Total personnel, 53)

D. L. ROYER, *Chairman*
C. T. COLLEY
W. J. GRAVES
M. A. KENDALL †
(N. W. ELMER, *Alternate*) †
P. T. ONDERDONK
C. G. PFEIFFER
R. B. RENNER
F. J. SHEPARD, JR.
J. G. WHEATLEY

SUBCOMMITTEE CHAIRMEN

- No. 1 on All Types of Chain Conveyors, Belt Conveyors, Belt Elevators Including Steel Belt, and Screw, Track or Scraper Conveyors, C. G. PFEIFFER
- No. 2 on Gravity Conveyors and Chutes, Live Roll Conveyors, H. G. DALTON
- No. 3 on Cable-Operated and Cable Flight Conveyors and Cableways, R. McA. KEOWN
- No. 4 on Air, Steam, or Liquid Conveyors, J. J. McNULTA
- No. 5 on Tiering, Piling, and Stacking Conveyors, J. G. WHEATLEY

SAFETY CODE FOR CRANES, DERRICKS, AND HOISTS (B30)

** Joint sponsorship with U. S. Navy Department, Bureau of Yards and Docks. Sectional Committee organized November, 1926*

A.S.M.E. Members (Total personnel, 56)

LEWIS PRICE †
F. H. SCHWERIN
R. H. WHITE †
H. L. WHITTEMORE

SUBCOMMITTEE CHAIRMEN

- No. 1 on Overhead and Gantry Cranes, R. H. WHITE
- No. 2 on Locomotive and Tractor Cranes, H. H. VERNON
- No. 3 on Derricks and Hoists, LEWIS PRICE
- No. 4 on Miscellaneous Equipment for Cranes and Hoists, L. W. HOPKINS
- No. 5 on Jacks, E. W. CARUTHERS

A.S.M.E. Representatives on Other Safety Committees

See also A.S.M.E. Representatives on Other Activities, page RI-5

SAFETY CODE FOR ABRASIVE WHEELS

** Sponsor bodies: Grinding Wheel Manufacturers Association of United States and Canada, and International Association of Industrial Accident Boards and Commissions*

J. B. CHALMERS

SAFETY CODE FOR CONSTRUCTION WORK

** Sponsor bodies: American Institute of Architects and National Safety Council*

C. H. O'NEIL

COOPERATION WITH OTHER ENGINEERING SOCIETIES

Committee of American Society of Safety Engineers—Engineering Section, National Safety Council

H. L. MINER

ASA SAFETY CODE CORRELATING COMMITTEE

D. L. ROYER
(J. B. CHALMERS, *Alternate*)

SAFETY CODE FOR EXHAUST SYSTEMS

** Sponsor body: International Association of Industrial Accident Boards and Commissions*

T. F. HATCH

SAFETY CODE FOR FLOOR AND WALL OPENINGS, RAILINGS, AND TOE BOARDS

** Sponsor body: National Safety Council*
A. E. WINDLE

SAFETY CODE FOR FORGING AND HOT METAL STAMPING

** Sponsor bodies: American Drop Forging Institute and National Safety Council*

C. F. PARK

SAFETY CODE ON COLORS FOR IDENTIFICATION OF GAS MASK CANISTERS

** Sponsor body: National Safety Council*
L. C. LICHTY

SAFETY CODE FOR LADDERS

** Sponsor body: American Society of Safety Engineers—Engineering Section, National Safety Council*

H. C. HOUGHTON

SAFETY CODE FOR LAUNDRY MACHINERY AND OPERATION

** Sponsor bodies: American Institute of Laundering, International Association of Governmental Labor Officials, and National Association of Mutual Casualty Companies*

E. J. CARROLL

SAFETY CODE FOR LIGHTING FACTORIES, MILLS, AND OTHER WORK PLACES

** Sponsor body: Illuminating Engineering Society*

A. W. LUCE

LOW VOLTAGE ELECTRICAL HAZARDS

Special Committee of the American Society of Safety Engineers—Engineering Section, National Safety Council

J. P. JACKSON

SAFETY CODE FOR MECHANICAL REFRIGERATION

** Sponsor body: American Society of Refrigerating Engineers*

O. A. ANDERSON

CROSBY FIELD

E. W. GALLENKAMP

W. F. JONES

(A. W. OAKLEY, Alternate to all A.S.M.E. Representatives)

SAFETY CODE FOR PAPER AND PULP MILLS

** Sponsor body: National Safety Council*

R. L. WELDON

SAFETY CODE FOR POWER PRESSES, AND FOOT AND HAND PRESSES

** Sponsor body: National Safety Council*

J. B. CHALMERS

SAFETY CODE FOR PREVENTION OF DUST EXPLOSIONS

** Sponsor bodies: National Fire Protection Association and U.S. Department of Agriculture*

J. H. MORROW

(R. M. FERRY, Alternate)

SAFETY CODE FOR PROTECTION OF HEADS, EYES, AND RESPIRATORY ORGANS OF INDUSTRIAL WORKERS

** Sponsor body: National Bureau of Standards*

T. A. WALSH, JR.

(T. F. HATCH, Alternate)

SAFETY CODE FOR PROTECTION OF INDUSTRIAL WORKERS IN FOUNDRIES

** Sponsor bodies: American Foundrymen's Association and National Founders Association*

H. M. LANE

SAFETY CODE FOR RUBBER MACHINERY

** Sponsor bodies: National Safety Council and International Association of Industrial Accident Boards and Commissions*

E. S. AULT

SPECIFICATIONS AND METHOD OF TEST FOR SAFETY GLASS

** Sponsor bodies: National Conservation Bureau and National Bureau of Standards*

T. A. WALSH, JR.

SAFETY CODE FOR TEXTILES

** Sponsor body: National Safety Council*

M. A. GOLRICK, JR.

SAFETY CODE FOR VENTILATION

** Sponsor body: American Society of Heating and Ventilating Engineers*

T. F. HATCH

SAFETY CODE FOR WALKWAY SURFACES

** Sponsor bodies: American Institute of Architects and American Society of Safety Engineers—Engineering Section, National Safety Council*

G. K. PALSGROVE

SAFETY CODE FOR WORK IN COMPRESSED AIR

** Sponsor body: International Association of Industrial Accident Boards and Commissions*

L. J. EIBSEN

POWER TEST CODES TECHNICAL COMMITTEES

ARTICLE B6A, PAR. 27: The Standing Committee on Power Test Codes shall, under the direction of the Council, have supervision of all the activities of the Society in connection with the A.S.M.E. Power Test Codes, including the interpretation of such codes.

The first Standing Committee on Power Test Codes was organized in December, 1918, to revise and extend the Power Test Codes which had been formulated by various technical committees appointed to develop particular codes. This work began in 1884.

STANDING COMMITTEE

FRANCIS HODGKINSON, *Chairman* (1944)
A. G. CHRISTIE, *Vice-Chairman* (1941)
W. W. LAWRENCE, *Junior Observer* (1940)

Term expires 1940

A. T. BROWN
P. H. HARDIE
B. V. E. NORDBERG
R. J. S. PIGOTT
M. C. STUART

Term expires 1941

A. G. CHRISTIE
PAUL DISERENS
G. A. ORROK
L. A. QUAYLE
W. M. WHITE

Term expires 1942

W. A. CARTER
HARTE COOKE
E. R. FISH
H. B. OATLEY
W. J. WOHLBERG

Term expires 1943

LOUIS ELLIOTT
G. A. HORNE
H. B. REYNOLDS
P. W. SWAIN
E. N. TRUMP

Term expires 1944

C. H. BERRY
D. S. JACOBUS
FRANCIS HODGKINSON
L. F. MOODY
E. B. RICKETTS

(1) GENERAL INSTRUCTIONS

Appointed December, 1918

Reorganized, 1939

THEODORE BAUMEISTER, JR., *Chairman*
PAUL DISERENS
HENRY KREISINGER
A. R. MUMFORD
C. R. SODERBERG
M. C. STUART
P. W. SWAIN

(2) DEFINITIONS AND VALUES

Appointed December, 1918

Reorganized, 1936

R. J. S. PIGOTT, *Chairman*
L. J. BRIGGS
W. F. DAVIDSON
A. L. KIMBALL
L. S. MARKS
F. G. PHILO
J. C. SMALLWOOD
P. W. SWAIN
A. C. WOOD

(3) FUELS

Appointed December, 1918

W. J. WOHLBERG, *Chairman*
E. G. BAILEY
B. L. BOYE
L. P. BRECKENRIDGE
H. W. BROOKS
S. B. FLAGG
D. M. MYERS
F. G. PHILO
G. S. POPE
E. B. RICKETTS
F. M. ROGERS
E. X. SCHMIDT
NICHOLAS STAHL
E. N. TRUMP

(4) STATIONARY STEAM-GENERATING UNITS

Appointed December, 1918

E. R. FISH, *Chairman*
A. D. BAILEY
M. W. BENJAMIN
B. J. CROSS
MARTIN FRISCH
P. H. HARDIE
R. M. HARDGROVE
ALFRED IDDLIS
E. L. LINDSETH
E. L. McDONALD
E. B. POWELL
R. SHELLBERGER
R. L. SPENCER

(5) RECIPROCATING STEAM ENGINES

Appointed December, 1918

Reorganized, 1931

A. G. CHRISTIE, *Chairman*
HARTE COOKE
K. S. M. DAVIDSON
HENRIK GREGER
J. A. HUNTER
H. G. MUELLER
B. V. E. NORDBERG
A. V. SAHAROFF
A. G. WITTING

(6) STEAM TURBINES

Appointed December, 1918

C. H. BERRY, *Chairman*
I. E. MOULTROP, *Secretary*
O. D. H. BENTLEY
W. E. CALDWELL
C. B. CAMPBELL
A. G. CHRISTIE
H. P. DAHLSTRAND
V. M. FROST
A. E. GRUNERT
FRANCIS HODGKINSON
S. A. MOSS
R. O. MULLER
T. E. PURCELL
G. B. WARREN

(7) RECIPROCATING STEAM-DRIVEN DISPLACEMENT PUMPS

Appointed December, 1918

R. D. HALL, *Chairman*
E. H. BROWN
J. N. CHESTER
J. E. GIBSON
G. L. KOLLBERG
M. B. MACNEILLE
D. W. MEAD
L. A. QUAYLE

(8) CENTRIFUGAL AND ROTARY PUMPS

Appointed December, 1918

Reorganized, 1936

M. B. MACNEILLE, *Chairman*
H. E. BECKWITH
R. L. DAUGHERTY
R. G. FOLSOM
R. C. GLAZEBROOK
W. B. GREGORY
R. T. KNAPP
J. B. LINCOLN
L. F. MOODY
ARVID PETERSON
F. H. ROGERS
W. C. RUDD
MAX SPILLMAN
F. G. SWITZER
W. M. WHITE
I. A. WINTER

(9) DISPLACEMENT COMPRESSORS AND BLOWERS

Appointed December, 1918

Reorganized, 1935

PAUL DISERENS, *Chairman*
G. T. FELBECK
C. R. HOUGHTON
J. F. HUVANE
R. M. JOHNSON
J. F. D. SMITH

(10) CENTRIFUGAL AND TURBO-COMPRESSORS AND BLOWERS

Appointed December, 1918

Reorganized, 1929

A. T. BROWN, *Chairman*
E. L. ANDERSON
C. A. BOOTH
W. H. CARRIER
THOMAS CHESTER
L. E. DAY
E. S. DEAN
Z. G. DEUTSCH
S. H. DOWNS
P. E. GOOD
J. J. GROB
H. F. HAGEN
PAUL HOFFMAN

H. D. KELSEY
A. L. KIMBALL
R. D. MADISON
L. S. MARKS
ARVID PETERSON
H. F. SCHMIDT
M. C. STUART

(11) COMPLETE STEAM POWER
PLANTS

Appointed December, 1918

Reorganized, 1933

F. M. VAN DEVENTER, *Chairman*
D. S. WEGG, *Secretary*
W. F. DAVIDSON
C. H. FELLOWS
R. A. FORESMAN
V. M. FROST
W. W. JOHNSON
E. W. NORRIS
H. S. WHITON

(12) CONDENSERS, WATER HEAT-
ING, AND COOLING EQUIPMENT

Appointed December, 1918

G. A. ORROK, *Chairman*
P. H. HARDIE, *Secretary*
C. H. BAKER, JR.
R. N. EHRHART
J. F. GRACE
D. W. R. MORGAN
H. B. REYNOLDS
P. E. REYNOLDS

(13) REFRIGERATING SYSTEMS

Appointed December, 1918

Reorganized May, 1939

B. H. JENNINGS, *Chairman* †
A. C. BUENSOD
(R. W. WATERFILL, *Alternate*)
J. C. CONSLEY
(H. B. POWNALL, *Alternate*)
H. A. FELDBUSH †
WALTER JONES †
A. W. OAKLEY
C. L. SVENSON
FRANK ZUMBRO †

(14) EVAPORATING APPARATUS

Appointed December, 1918

E. N. TRUMP, *Chairman*
B. N. BUMP
E. A. NEWHALL
H. L. PARR
L. C. ROGERS

(15) STEAM LOCOMOTIVES

Appointed December, 1918

E. C. SCHMIDT, *Chairman*
W. F. KIESEL, JR.

† Official A.S.M.E. representatives serving
on this committee.

H. B. OATLEY
G. E. RHOADS
L. K. SILLCOX
W. E. WOODARD

(16) GAS PRODUCERS

Appointed December, 1918

C. D. SMITH
H. F. SMITH

(17) INTERNAL-COMBUSTION
ENGINES

Appointed December, 1918

Reorganized, 1939

LEE SCHNETTER, *Chairman*
F. H. DUTCHER, *Secretary*
J. C. BARNABY
HARTE COOKE
H. E. DEGLER
W. L. H. DOYLE
L. R. FORD
L. B. JACKSON
E. J. KATES
E. C. MAGDEBURGER
B. V. E. NORDBERG
M. J. REED
MAX ROTTER
O. D. TREIBER

(18) HYDRAULIC PRIME MOVERS

Appointed December, 1918

Reorganized, 1931

S. L. KERR, *Chairman*
C. M. ALLEN
L. M. DAVIS
H. L. DOOLITTLE
W. F. DURAND
H. N. EATON
N. R. GIBSON
J. P. GROWDON
T. H. HOGG
L. J. HOOVER
C. W. HUBBARD
E. C. HUTCHINSON
D. J. MCCORMACK
L. F. MOODY
W. J. RHEINGANS
E. B. STROWGER
R. V. TERRY
W. M. WHITE

(19) INSTRUMENTS AND APPARATUS

Appointed, December, 1918

W. A. CARTER, *Chairman*
C. M. ALLEN
W. C. ANDRAE
E. G. BAILEY
H. S. BEAN
L. J. BRIGGS
J. D. DAVIS
K. J. DE JUHASZ
R. E. DILLON
F. M. FARMER

J. B. GRUMBEIN
W. W. JOHNSON
W. H. KENERSON
E. S. LEE
E. L. LINDSETH
OSBORN MONNETT
S. A. MOSS
R. J. S. PIGOTT
E. B. RICKETTS
W. A. SLOAN
R. B. SMITH
I. M. STEIN

(20) SPEED-RESPONSIVE
GOVERNORS

Appointed December, 1921

FRANCIS HODGKINSON, *Chairman*
HARTE COOKE
F. H. ROGERS

(21) DUST SEPARATING APPARATUS

Appointed October, 1934

M. D. ENGLE, *Chairman*
OLLISON CRAIG, *Secretary*
E. L. ANDERSON
A. D. BAILEY
H. H. BUBAR
W. G. CHRISTY
H. O. CROFT
J. M. DALLAVALLE
H. C. DOHRMANN
PHILIP DRINKER
J. W. FEHNEL
H. F. HAGEN
P. H. HARDIE
C. W. HEDBERG
J. H. LEECH
H. E. MACOMBER
H. B. MELLER
H. C. MURPHY
B. F. TILLSON

A.S.M.E. Representatives on
Other Technical Committees

*See also A.S.M.E. Representatives on Other
Activities, page RI-5*

DEVELOPMENT OF DEFINITIONS FOR
THE NET CALORIFIC VALUE
AND GROSS CALORIFIC
VALUE OF FUELS

*Sponsor body: American Society for
Testing Materials*

W. J. WOHLBERG

COMMITTEE ON REDEFINING SO-
CALLED STANDARD TON OF
REFRIGERATION

*Sponsor body: American Society of
Refrigerating Engineers*

G. B. BRIGHT

BOILER CODE COMMITTEES

ARTICLE B6A, PAR. 26: The Special Committee on Boiler Code shall, under the direction of the Council, have supervision of all the activities of the Society in connection with the A.S.M.E. Codes for Pressure Vessels, including the interpretations of these codes.

The first Special Committee on Boiler Code was organized in September, 1911.

SPECIAL COMMITTEE

D. S. JACOBUS, *Chairman*
 E. R. FISH, *Vice-Chairman*
 C. W. OBERT, *Honorary Secretary*
 M. JURIST, *Acting Secretary*
 C. A. ADAMS
 H. E. ALDRICH
 H. C. BOARDMAN
 PERRY CASSIDY
 R. E. CECIL
 F. S. CLARK
 A. J. ELY
 V. M. FROST
 C. E. GORTON
 A. M. GREENE, JR.
 W. G. HUMPTON
 J. O. LEECH
 I. E. MOULTROP
 C. O. MYERS
 H. B. OATLEY
 JAMES PARTINGTON
 WALTER SAMANS
 S. K. VARNES
 A. C. WEIGEL

Honorary Members

W. H. BOEHM
 F. W. DEAN
 W. F. DURAND
 T. E. DURBAN
 C. L. HUSTON
 W. F. KIESEL, JR.
 M. F. MOORE
 H. H. VAUGHAN
 H. LEROY WHITNEY

CONFERENCE COMMITTEE

W. E. ALLEN, St. Louis, Mo.
 T. R. ARCHER, Delaware
 L. M. BARRINGER, Seattle, Wash.
 J. G. BOLLOCK, St. Joseph, Mo.
 B. M. BOOK, Pennsylvania
 H. S. BRUNSON, Minnesota
 CITY BOILER INSPECTOR, Parkersburg, W. Va.
 E. S. CARPENTER, Rhode Island
 L. M. CAVE, Maryland
 A. J. CONWAY, Indiana
 M. A. EDGAR, Wisconsin
 C. W. FOSTER, Omaha, Neb.
 E. M. FITZGERALD, Louisiana
 M. R. FRANCIS, West Virginia
 W. H. FURMAN, New York
 F. D. GARVIN, Houston, Tex.
 GERALD GEARON, Chicago, Ill.
 J. M. GILLESPIE, Tulsa, Okla.
 C. H. GRAM, Oregon
 B. GRETZKE, Washington
 F. A. HECKINGER, Memphis, Tenn.
 H. K. KUGEL, District of Columbia
 JOE KUNSCHIK, Texas
 G. A. LUCK, Massachusetts
 R. B. MCCOLLUM, Kansas City, Mo.
 C. E. MCGINNIS, Los Angeles, Calif.
 H. H. MILLS, Detroit, Mich.
 C. O. MYERS, Ohio
 J. D. NEWCOMB, JR., Arkansas
 W. L. NEWTON, Oklahoma
 F. A. PAGE, California

L. C. PEAL, Nashville, Tenn.
 E. K. SAWYER, Maine
 A. H. SCHLEMAN, Tampa, Fla.
 J. F. SCOTT, New Jersey
 J. N. SEIGER, Evanston, Ill.
 C. I. SMITH, Utah
 H. B. SMITH, North Carolina
 Wm. E. SMITH, Hawaiian Islands
 JOHN H. THORPE, Michigan

EXECUTIVE COMMITTEE

D. S. JACOBUS, *Chairman*
 H. E. ALDRICH, *Vice-Chairman*
 E. R. FISH
 V. M. FROST
 C. E. GORTON
 C. W. OBERT
 JAMES PARTINGTON

SUBCOMMITTEES

BOILERS OF LOCOMOTIVES

JAMES PARTINGTON, *Chairman*
 F. H. CLARK
 J. M. HALL
 H. B. OATLEY

CARE OF STEAM BOILERS AND OTHER PRESSURE VESSELS IN SERVICE

F. M. GIBSON, *Chairman*
 D. C. CARMICHAEL
 V. M. FROST
 J. R. GILL
 FRANK HENRY
 J. A. HUNTER
 H. J. KERR
 P. B. PLACE
 S. T. POWELL
 C. W. RICE
 J. B. ROMER
 W. C. SCHROEDER
 NICHOLAS STAHL
 F. G. STRAUB

FERROUS MATERIALS

D. B. ROSSHEIM, *Chairman*
 A. B. BAGSAR
 E. C. CHAPMAN
 A. J. ELY
 H. J. FRENCH
 W. R. GRUNOW
 M. B. HIGGINS
 W. G. HUMPTON
 A. HURTGEN
 T. MCLEAN JASPER
 J. J. KANTER
 E. F. KENNEY
 H. J. KERR
 A. B. KINZEL
 L. J. MASON
 N. L. MOCHEL
 E. L. ROBINSON
 S. K. VARNES
 A. E. WHITE
 R. WILSON

HEATING BOILERS

C. E. GORTON, *Acting Chairman*
 C. E. BRONSON
 J. A. DARTS
 Wm. FERGUSON
 W. E. STARK
 J. W. TURNER

MATERIAL SPECIFICATIONS

PERRY CASSIDY, *Chairman*
 A. M. GREENE, JR.
 W. G. HUMPTON
 J. O. LEECH
 P. J. SMITH
 A. C. WEIGEL

MINIATURE BOILERS

C. E. GORTON, *Chairman*
 W. H. FURMAN
 G. A. LUCK
 C. W. OBERT

NONFERROUS MATERIALS

H. B. OATLEY, *Chairman*
 J. J. AULL
 D. K. CRAMPTON
 J. R. FREEMAN, JR.
 A. M. HOUSER
 F. P. HUSTON
 E. F. MILLER
 JOSEPH PRICE
 R. L. TEMPLIN

POWER BOILERS

H. E. ALDRICH, *Chairman*
 PERRY CASSIDY
 E. R. FISH
 V. M. FROST
 D. L. ROYER
 A. C. WEIGEL

RULES FOR INSPECTION

(This subcommittee is being reorganized)

SPECIAL DESIGN

D. B. WESTSTROM, *Chairman*
 H. C. BOARDMAN
 R. E. CECIL
 T. W. GREENE
 D. B. ROSSHEIM
 W. H. ROWAND
 E. O. WATERS
 F. S. G. WILLIAMS

UNFIRED PRESSURE VESSELS

E. R. FISH, *Chairman*
 C. A. ADAMS
 C. E. BRONSON
 R. E. CECIL
 PAUL DISERENS
 H. S. SMITH
 D. B. WESTSTROM

WELDING	SPECIAL COMMITTEE ON COORDINATION	RULES FOR OPENINGS
<i>Members of A.S.M.E. Boiler Code Committee</i>	V. M. FROST, <i>Chairman</i>	T. D. TIFFT, <i>Chairman</i>
JAMES PARTINGTON, <i>Chairman</i>	EXTENSION OF FUSION WELDING REQUIREMENTS	SAFETY VALVE REQUIREMENTS
E. C. CHAPMAN	H. E. ALDRICH, <i>Chairman</i>	H. B. OATLEY, <i>Chairman</i>
J. H. DEPPELER	FEEDWATER	API-ASME COMMITTEE ON UNFIRED PRESSURE VESSELS
W. D. HALSEY	C. W. RICE, <i>Chairman</i>	WALTER SAMANS, <i>Chairman</i>
J. C. HODGE	ISSUANCE OF CODE SYMBOL STAMPS	<i>A.S.M.E. Representatives</i>
R. K. HOPKINS	C. O. MYERS, <i>Chairman</i>	R. E. CECIL
T. J. PHILLIPS	RADIOGRAPHIC EXAMINATION OF WELDED JOINTS	E. R. FISH
L. A. SHELDON	C. A. ADAMS, <i>Chairman</i>	D. S. JACOBUS
<i>Members of Conference Committee of American Welding Society</i>	REVISION OF SECTION VIII OF THE A.S.M.E. BOILER CODE	T. McLEAN JASPER
C. W. OBERT, <i>Chairman</i>	E. R. FISH, <i>Chairman</i>	JAMES PARTINGTON
C. A. ADAMS	RULES FOR BOLTED FLANGED CONNECTIONS	<i>A.P.I. Representatives</i>
H. C. BOARDMAN	D. B. WESTROM, <i>Chairman</i>	A. J. ELY
WALTER SAMANS		K. V. KING
A. C. WEIGEL		(P. D. McELFISH, <i>Alternate</i>)
SPECIAL COMMITTEES		R. C. POWELL
APPROVAL OF NEW MATERIALS		WALTER SAMANS
C. A. ADAMS, <i>Chairman</i>		T. D. TIFFT
CLAD VESSELS		
S. K. VARNES, <i>Chairman</i>		

THE WOMAN'S AUXILIARY TO THE A.S.M.E.

The Woman's Auxiliary to the A.S.M.E. was organized on May 10, 1923, and its Constitution and By-Laws was approved by the Council of the A.S.M.E. on October 27, 1924. The objects of the Auxiliary are to render service to all that pertains to the interest of the profession of mechanical engineering; to cooperate with any committees of the A.S.M.E.; and to assist the sons and daughters of the members of the Society or worthy students of mechanical engineering in obtaining scholarships; and to promote any other objects consistent with the aims or objects of the A.S.M.E.

OFFICERS

President, MRS. GEORGE W. FARNY
 First Vice-President, MRS. COLLINS P. BLISS
 Second Vice-President, MRS. CALVIN W. RICE
 Third Vice-President, MRS. CROSBY FIELD
 Fourth Vice-President, MRS. J. PAGE HARBESON
 Fifth Vice-President, MRS. HARRY A. SCHWARTZ
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 Corresponding Secretary, MRS. F. M. GIBSON
 Treasurer, MRS. A. H. MORGAN

STANDING COMMITTEE CHAIRMEN

Education, MRS. ROY V. WRIGHT
 Membership, MRS. GEORGE E. HAGEMANN
 Publicity and Custodian, MISS BURTIE HAAR

COUNCIL REPRESENTATIVES

To be appointed

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Chairman, MRS. J. PAGE HARBESON, JR.
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 Recording Secretary, MRS. JUSTIN MCCARTHY
 Corresponding Secretary, MRS. F. E. WASHBURN
 Treasurer, MRS. WILLIAM F. GLIMM

AWARDS

The following paragraphs deal with the medals, awards, scholarships, and loan funds which come within the jurisdiction of the A.S.M.E. Other awards available to Student Members are listed in *Mechanical Engineering*, February, 1938, page 183. The Society also participates with other engineering societies in a number of joint awards. Further details concerning all the awards will be found in a series of articles beginning in the October, 1938, issue of *Mechanical Engineering*.

Honorary Membership, to which persons of acknowledged professional eminence are elected by unanimous vote of Council under the provisions of the By-Laws and Rules. A list of honorary members is given on page RI-37.

Life Membership, which may be conferred by the Council for distinguished service to the Society; or secured by a member by payment for an annuity in accordance with the provisions of the By-Laws.

A.S.M.E. Medal, established by the Society in 1920 to be presented, together with an engraved certificate, for distinguished service in engineering and science. May be awarded for general service in science having possible application in engineering.

Holley Medal, instituted and endowed in 1924 by George I. Rockwood, Past Vice-President of the Society, to be bestowed, together with an engraved certificate, for some great and unique act of genius of engineering nature that has accomplished a great and timely public benefit.

Worcester Reed Warner Medal, provision for which was made in the will of Worcester Reed Warner, Honorary Member of the Society, is a gold medal to be bestowed, together with an engraved certificate, on the author of the most worthy paper received, dealing with progressive ideas in mechanical engineering or efficiency in management.

Melville Medal, established in 1914 by the bequest of Rear-Admiral George W. Melville, Honorary Member and Past-President of the Society, to be presented, together with an engraved certificate, for an original paper or thesis of exceptional merit, presented to the Society for discussion and publication, to encourage excellence in papers. The medal may be presented annually.

Spirit of St. Louis Medal, established by an endowment fund created in 1929 by citizens of St. Louis, Mo., to be awarded for meritorious service in the advancement of aeronautics. This medal will be awarded at the discretion of the Council of the Society at approximately three-year periods upon the recommendation of its Board of Honors and Awards.

Junior Award, annual cash award of \$50, established in 1914, from a fund created by Henry Hess, Past Vice-President of the Society, to be presented, together with an engraved certificate, for the best paper or thesis submitted by a Junior Member.

Pi Tau Sigma Medal Award, established in 1938, endowed by Pi Tau Sigma, the national honorary mechanical engineering fraternity, to be presented annually, together with an engraved certificate, to the young mechanical engineer for outstanding achievement in his profession within the ten years after graduation from a regular four-year mechanical engineering course of a recognized American college or university. Any mechanical engineering graduate, not more than thirty-five years of age, whose achievement has been all or in part in any field including industrial, educational, political, research, civic, etc., is eligible.

Charles T. Main Award, annual cash award of \$150, established in 1919 from a fund created by Charles T. Main, Past-President of the Society, to be awarded, together with an engraved certificate, to a Student Member of the Society, for the best paper within the general subject of the influence of the profession upon public life. The exact subject is assigned by the Board of Honors and Awards, subject to the approval of the Council, and is announced each year through the Honorary Chairman of the Student Branches.

Student Awards, two annual cash awards of \$25 each, established in 1914, from a fund created by Henry Hess, Past Vice-President of the Society, to be presented, together with engraved certificates, for the best papers or theses submitted by Student Members. The awards for 1932 and subsequent years have been given, one for undergraduate and the other for postgraduate work.

SCHOLARSHIPS AND LOAN FUNDS

Max Toltz: Loan Fund of \$15,000 established by Major Max Toltz, former member of the Council of the Society, the income to be used for assistance to Student Members.

John R. Freeman: Fund of \$25,000 established in 1926 by John R. Freeman, Past-President of the Society, the income to be used for travel scholarships and research.

Woman's Auxiliary: Scholarship or Fellowship offered by the Woman's Auxiliary to the Society to assist sons and daughters of members or worthy students of mechanical engineering.

RECIPIENTS OF AWARDS

The names of the recipients of the different awards to date are given in the following lists, together with the dates of presentation, and the services or papers for which the awards were made. There were no awards for the years not listed.

A.S.M.E. MEDAL

- 1921 HJALMAR GOTTFRIED CARLSON, in recognition of the services rendered the Government because of his invention and part in the production of 20,000,000 Mark III drawn steel booster casings used principally as a component of 75-mm high-explosive shells, but also used extensively in gas shells and bombs
- 1922 FREDERICK ARTHUR HALSEY, for his paper describing the premium system of wage payments presented before the Society at the Providence Meeting in 1891, as the adoption of the methods there proposed has had a profound effect toward harmonizing the relations of worker and employer
- 1923 JOHN RIPLEY FREEMAN, for his eminent service in engineering and manufacturing by his meritorious work in fire prevention and the preservation of property
- 1926 R. A. MILLIKAN, in recognition of his contributions to science and engineering
- 1927 WILFRED LEWIS, for his contributions to the design and construction of gear teeth
- 1928 JULIAN KENNEDY, for his services and contributions to the iron and steel industry
- 1929 WILLIAM LEROY EMMET, for his contributions in the development of the steam turbine, electric propulsion of ships, and other power-generating apparatus
- 1931 ALBERT KINGSBURY, for his research and development work in the field of lubrication
- 1933 AMBROSE SWASEY, for his contributions to the advancement of the engineering profession and for his part in the development of the turret lathe and the astronomical telescope
- 1934 WILLIS H. CARRIER, in recognition of his research and development work in air-conditioning
- 1935 CHARLES T. MAIN, for distinguished achievements in the textile and other industries, in engineering education, and for eminent service to the engineering profession
- 1936 EDWARD BAUSCH, for meritorious mechanical developments in the field of optics
- 1937 EDWARD P. BULLARD, for outstanding leadership in the development of station-type machine tools
- 1938 STEPHEN J. PIGOTT, for outstanding leadership in marine propulsion and construction
- 1939 JAMES E. GLEASON, for service to the cause of safer and better transportation.

HOLLEY MEDAL

- 1924 HJALMAR GOTTFRIED CARLSON, for his inventions and processes which made possible the timely production of drawn steel booster casings for artillery ammunition, thereby aiding victory in the World War (diploma in recognition of achievements presented in 1921)
- 1927 ELMER AMBROSE SPERRY, for achievements and inventions that have advanced the naval arts, including the gyroscope that has freed navigation from the dangers of the fluctuating magnetic compass
- 1929 BARON CHUZABURO SHIBA, for his contributions to knowledge through fundamental research, including the field of aerodynamics, by the development of ultra-rapid kinematic graphic methods.

- 1934 IRVING LANGMUIR, for his contributions to science and engineering, including the development of gas-filled incandescent lamps, thoriated filament for thermionic emission, atomic hydrogen welding, phase control operation of the thyatron tube, and fundamental research in oil films
- 1936 HENRY FORD, for revolutionary influence through invention and practice on transportation and on mass production methods in manufacturing
- 1937 FREDERICK G. COTTRELL, for preeminent public service—the invention of electric precipitation—advancement of the science of gas liquefaction—gifts for engineering research
- 1938 FRANCIS HODGKINSON, for meritorious services in the development of the steam turbine
- 1939 CARL E. JOHANSSON, in recognition of his pioneer work in the development of basic measuring gages.

WORCESTER REED WARNER MEDAL

- 1933 DEXTER S. KIMBALL, for his contributions to efficiency in management as exemplified by his recently revised "Principles of Industrial Organization" and by his many articles, engineering society papers, and public addresses
- 1934 RALPH E. FLANDERS, for his contributions to a better understanding of the relationship of the engineer to economic problems and social trends as exemplified by the many papers which he has presented
- 1935 STEPHEN TIMOSHENKO, for his contributions to the theory of the design of elastic structures and the treatment of dynamics of moving machinery
- 1936 CHARLES M. ALLEN, for his early and continued hydraulic laboratory work and for the permanent value of the papers on his development of methods of testing large hydraulic turbine installations
- 1937 CLARENCE F. HIRSHFELD, for his research and contributions to the theory and practice of heat-power engineering as exemplified by books and papers
- 1938 LAWFORD H. FRY, for contributions relating to improved locomotive boiler design and utilization of better materials in railway equipment
- 1939 RUPEN EKSERGIAN, for influential papers of permanent value in A.S.M.E. Transactions.

MELVILLE MEDAL

- 1927 LEON P. ALFORD, "Laws of Manufacturing Management"
- 1929 JOSEPH W. ROE, "Principles of Jig and Fixture Practice"
- 1930 HERMAN DIEDERICH and WILLIAM D. POMEROY, "The Occurrence and Elimination of Surge or Oscillating Pressure in Discharge Lines From Reciprocating Pumps"
- 1931 ARTHUR E. GRUNERT, "Comparative Performance of a Pulverized-Coal-Fired Boiler Using Bin System and Unit System of Firing"
- 1932 ALEXEY J. STEPANOFF, "Leakage Loss and Axial Thrust in Centrifugal Pumps"
- 1933 WILLIAM E. CALDWELL, "Characteristics of Large Hell Gate Direct-Fired Boiler Units"
- 1935 OSCAR R. WIKANDER, "Draft-Gear Action in Long Trains"
- 1936 H. A. STEVENS HOWARTH, "The Loading and Friction of Thrust and Journal Bearings With Perfect Lubrication"
- 1937 ALFRED J. BÜCHLI, "Supercharging of Internal-Combustion Engines With Blowers Driven by Exhaust-Gas Turbines"
- 1938 ALPHONSE I. LIPETZ, "Air Resistance of Railroad Equipment"
- 1939 LESTER M. GOLDSMITH, for his paper, "High-Pressure High-Temperature Turbine-Electric Steamship *J. W. Van Dyke*."

SPIRIT OF SAINT LOUIS MEDAL

- 1929 DANIEL GUGGENHEIM, founder of the Guggenheim Fund for the Promotion of Aeronautics
- 1932 PAUL LITCHFIELD, for his work in encouraging and sponsoring airship design and construction in this country
- 1935 WILL ROGERS, for his splendid, constructive, and unselfish work in the achievement of aviation, and the building up of public confidence in aviation through his articles in the press, over the radio, and from the speaker's platform
- 1938 JAMES H. DOOLITTLE, for meritorious service in the advancement of aeronautics.

JUNIOR AWARD

- 1915 ERNEST O. HICKSTEIN, "Flow of Air Through Thin Plate Orifices"
- 1916 L. M. McMILLAN, "The Heat Insulating Properties of Commercial Steam-Pipe Coverings"
- 1919 E. D. WHALEN, "Properties of Airplane Fabrics"
- 1921 S. LOGAN KERR, "Moody Ejector Turbine"
- 1922 R. H. HEILMAN, "Heat Losses From Bare and Covered Wrought-Iron Pipe at Temperatures up to 800 Degrees Fahrenheit"
- F. L. KALLAM, "Preliminary Report on the Investigation of the Thermal Conductivity of Liquids"
- 1923 S. S. SANFORD and S. CROCKER, "The Elasticity of Pipe Bends"
- 1924 R. H. HEILMAN, "Heat Losses Through Insulating Material"
- 1925 GILBERT S. SCHALLER, "An Investigation of Seattle as a Location for a Synthetic Foundry Industry"
- 1927 WILLIAM M. FRAME, "Stresses Occurring in the Walls of an Elliptical Tank Subjected to Low Internal Pressure"
- 1928 M. D. AISENSTEIN, "A New Method of Separating the Hydraulic Losses in a Centrifugal Pump"
- 1929 ARTHUR M. WAHL, "Stresses in Heavy, Closely Coiled Helical Springs"
- 1930 ED SINCLAIR SMITH, "Quantity-Rate Fluid Meters"
- 1931 M. K. DREWRY, "Radiant-Superheater Developments"
- 1932 EDMOND M. WAGNER, "Frictional Resistance of a Cylinder Rotating in a Viscous Fluid Within a Coaxial Cylinder"
- 1933 TOWNSEND TINKER, "Surface Condenser Design and Operating Characteristics"
- 1934 JOHN I. YELLOTT, JR., "Supersaturated Steam"
- 1935 STANLEY J. MIKINA, "Effect of Skewing and Pole Spacing on Magnetic Noise in Electrical Machinery"
- 1936 HARWOOD F. MULLIKAN, JR., "Evaluation of Effective Radiant Heating Surface and Application of the Stefan-Boltzman Law to Heat Absorption in Boiler Furnaces"
- 1937 LESLIE J. HOOPER, "American Hydraulic-Laboratory Practice"
- 1938 ARTHUR C. STERN, "Separation and Emission of Cinders and Fly Ash."

PI TAU SIGMA MEDAL

- 1938 WILFRID E. JOHNSON, for his development work in the field of refrigeration
- 1939 JOHN I. YELLOTT, JR., in recognition of significant achievements in steam-flow research and engineering education; also contributions on "Supersaturated Steam" and "Condensation of Flowing Steam in Diverging Nozzles."

CHARLES T. MAIN AWARD

- 1925 CLEMENT R. BROWN, Catholic University of America. Subject: "The Influence of the Locomotive on the Unity of the United States"
- 1926 W. C. SAYLOR, Johns Hopkins University. Subject: "The Effect of the Cotton Gin Upon the History of the United States During Its First Seventy Years"
- 1927 No Award. Subject: "Scientific Management and Its Effect Upon the Industries"
- 1928 ROBERT M. MEYER, Newark College of Engineering. Subject: "Scientific Management and Its Effect Upon Manufacturing"
- 1929 No award. Subject: "The Influence of Engineering on Farm Production"
- 1930 JULES PODNOSOFF, Polytechnic Institute of Brooklyn. Subject: "The Value of the Safety Movement in the Industries"
- 1931 ROBERT E. KLISE, University of Michigan. Subject: "Interchangeability—Its Development and Significance in Industry"
- 1932 MARSHALL ANDERSON, University of Michigan. Subject: "Apprenticeship and Vocational Training"
- 1933 GEORGE D. WILKINSON, JR., Newark College of Engineering. Subject: "Progress in the Prevention of Smoke and Atmospheric Pollution"
- 1934 PHILIP P. SELF, Colorado State College, Subject: "Air Conditioning—Its Practicability and Relation to Public Welfare"
- 1935 G. LOWELL WILLIAMS, Lafayette College. Subject: "Co-ordinated Transportation—An Economic Comparison of Railroad, Bus, Truck, Water, and Air Transportation for Long and Short Haul"

- 1936 No award. Subject: "Development in the Generation and Distribution of Power and Their Effect Upon the Consumer"
- 1937 ALLAN P. STERN, Case School of Applied Science. Subject: "The Influence of the Introduction of Labor Saving Machinery Upon Employment in the United States"
- 1938 EDWARD W. CONNOLLY, University of Detroit. Subject: "Economic Limitations in Engineering Design, With Concrete Examples"
- 1939 JAMES R. BRIGHT, Lehigh University. Subject: "The Economics of Investment in New Manufacturing Equipment—With Concrete Cases."

STUDENT AWARD

- 1916 BOYNTON M. GREEN, Stanford University, "Bearing Lubrication"
- HOWARD E. STEVENS, Rensselaer Polytechnic Institute, "An Investigation of the Dynamic Pressure on Submerged Flat Plates"
- M. ADAM, Louisiana State University, "The Adaptability of the Internal Combustion Engine to Sugar Factories and Estates"
- 1917 H. R. HAMMOND and C. W. HOLMBERG, The Pennsylvania State College, "Study of Surface Resistance With Glass as the Transmission Medium"
- 1919 C. F. LEH and F. G. HAMPTON, Stanford University, "An Experimental Investigation of Steel Belting"
- W. E. HELMICK, Stanford University, "An Experimental Investigation of Steel Belting"
- 1920 HOWARD G. ALLEN, Cornell University, "Wire Stitching Through Paper"
- 1921 KARL H. WHITE, University of Kansas, "Forces in Rotary Motors"
- RICHARD H. MORRIS and ALBERT J. R. HOUSTON, University of California, "A Report Upon an Investigation of the Herschel Type of Improved Weir"
- 1923 CHARLES F. OLMSTEAD, University of Minnesota, "Oil Burning for Domestic Heating"
- H. E. DOOLITTLE, University of California, "The Integrating Gate: A Device for Gaging in Open Channels"
- 1924 GEORGE STUART CLARK, Stanford University, "Two Methods Used for the Determination of the Gasoline Content of Absorption Oils in Absorption Plants"
- L. J. FRANKLIN and CHARLES H. SMITH, Stanford University, "The Effect of Inaccuracy of Spacing on the Strength of Gear Teeth"
- 1925 HARRY PEASE COX, JR., Rensselaer Polytechnic Institute, "A Study of the Effect of End Shape on the Towing Resistance of a Barge Model"
- W. S. MONTGOMERY, JR., and E. RAY ENDERS, JR., Pennsylvania State College, "Some Attempts to Measure the Drawing Properties of Metals"
- 1926 R. E. PETERSON, University of Illinois, "An Investigation of Stress Concentration by Means of Plaster of Paris Specimens"
- CECIL G. HEARD, University of Toronto, "Pressure Distribution Over U.S.A. 27 Aerofoil With Square Wing Tips—Model Tests"
- 1927 ALFRED H. MARSHALL, Princeton University, "Evaporative Cooling"
- ROGER IRWIN EBY, University of Washington, "Measurement of the Angular Displacement of Flywheels"
- 1928 CLARENCE C. FRANCK, Johns Hopkins University, "Condition Curves and Reheat Factors for Steam Turbines"
- 1929 FRANK VERNON BISTROM, University of Washington, "An Investigation of a Rotary Pump"
- WILLIAM WALLACE WHITE, University of Washington, "An Investigation of a Rotary Pump"
- 1930 GERARD EDEN CLAUSSEN, Polytechnic Institute of Brooklyn, "High-Temperature Oxidation of Steel"
- HAROLD L. ADAMS and RICHARD L. STITH, University of Washington, "A Wind Tunnel for Undergraduate Laboratory Experiments"
- 1931 JULES PODNOSOFF, Polytechnic Institute of Brooklyn, "Pressure and Energy Distribution in Multi-Stage Steam Turbines Operating Under Varying Conditions"
- 1932 H. E. FOSTER, JR., University of Tennessee, "Factors Affecting Spray Pond Design" (Undergraduate Award)
- WILLIAM A. MASON, Stanford University, "An Experimental Investigation of the Flame Propagation in Internal-Combustion Engines" (Postgraduate Award)
- 1933 HUGO V. CORDIANO, Polytechnic Institute of Brooklyn, "Thermal Analysis of Lithium-Magnesium System of Alloys" (Undergraduate Award)
- JAMES A. OSTRAND, JR., Princeton University, "Sudden Enlargement in the Open Channel" (Postgraduate Award)
- 1934 H. REYNOLDS HUDSON, Georgia School of Technology, "Dynamic Balance and Functional Utility Applied to Automotive Design" (Undergraduate Award)
- 1935 CHARLES P. BACHA, Rutgers University, "The Behavior of Metals Subjected to Combined Stress" (Postgraduate Award)
- ROBERT W. BEAL, Oregon State College, "Do Lubricating Oils Wear Out?" (Undergraduate Award)
- 1936 LEON B. STINSON, Oklahoma Agricultural and Mechanical College, "Polymerized Motor Fuels; Their Economic Significance" (Undergraduate Award)
- DEWITT D. BARLOW, JR., Princeton University, "The Critical Speeds of Lateral Vibrations of Shafts With Gyroscopic Effects" (Postgraduate Award)
- 1937 GINO J. MARINELLI, Rensselaer Polytechnic Institute, "Investigation of the Towing Resistance of a Model Submarine Hull" (Undergraduate Award)
- 1938 MARSHALL C. LONG, Princeton University, "An Investigation Into the Angular Characteristics of an Adjustable Blade Current Meter" (Postgraduate Award)
- DONALD C. MCSORLEY, Michigan State College, "Humidity Insulation" (Undergraduate Award)
- 1939 DAVID T. JAMES, Michigan State College, "Bells—Concerning Their Tones" (Undergraduate Award).

FREEMAN TRAVEL SCHOLARSHIP

- 1927 HERBERT N. EATON
- 1928 BLAKE R. VAN LEER
- 1929 ROBERT T. KNAPP
- 1931 REGINALD WHITAKER
- 1932 G. ROSS LORD
- 1933 } H. J. CASEY
- 1934 } VICTOR L. STREETER
- 1935 }
- 1936 }

HONORARY MEMBERS

HONORARY MEMBERS IN
PERPETUITY

ALEXANDER LYMAN HOLLEY, Founder of the Society. Died 1882.
JOHN EDSON SWEET, Founder of the Society. Died 1916.
HENRY ROSSITER WORTHINGTON, Founder of the Society. Died 1880.

DECEASED HONORARY MEMBERS

	ELECTED	DIED
HORATIO ALLEN	1880	1889
SIR WILLIAM ARROL.....	1905	1913
SIR JOHN AUDLEY FREDERICK ASPINALL	1911	1937
WILLIAM WALLACE ATTERBURY	1925	1935
SIR BENJAMIN BAKER.....	1886	1907
JOHANN BAUSCHINGER	1884	1893
SIR HENRY BESSEMER.....	1891	1898
SIR FREDERICK JOSEPH BRAM- WELL	1884	1903
JOHN ALFRED BRASHEAR.....	1908	1920
GUSTAVE CANET	1900	1908
ANDREW CARNEGIE	1907	1919
DANIEL KINNEAR CLARK.....	1882	1896
RUDOLPH JULIUS EMMANUEL CLAUSIUS	1882	1888
SIR JOHN GOODE	1889	1892
PETER COOPER	1882	1883
CHARLES DE FRÉMINVILLE....	1919	1936
CARL GUSTAF PATRICK DE LAVAL	1912	1913
RUDOLPH DIESEL	1912	1913
JAMES DREDGE	1886	1906
VICTOR DWELSHAUVERS-DEBY.	1886	1913
THOMAS ALVA EDISON.....	1904	1931

	ELECTED	DIED		ELECTED	DIED
ALEXANDRE GUSTAVE EIFFEL..	1889	1923	CHARLES M. SCHWAB.....	1918	1939
MARSHAL FERDINAND FOCH..	1921	1929	C. WILLIAM SIEMANS.....	1882	1883
SIR CHARLES DOUGLAS FOX...	1900	1921	VISCOUNT EL-ICHI SHIBUSAWA	1929	1931
JOHN RIPLEY FREEMAN.....	1932	1932	AMBROSE SWASEY	1916	1937
JOHN FRITZ	1900	1913	ELIHU THOMSON	1930	1937
MAJOR-GENERAL GEORGE WASHINGTON GOETHALS ..	1917	1928	HENRY ROBINSON TOWNE....	1921	1924
FRANZ GRASHOF	1884	1893	HENRI TRESCA	1882	1885
REAR-ADMIRAL ROBERT STAN- ISLAU GRIFFIN	1920	1933	WILLIAM CAWTHORNE UNWIN	1898	1933
OTTO HALLAUER	1882	1883	OSKAR VON MILLER.....	1912	1934
CHARLES HAYNES HASWELL..	1905	1907	FRANCIS A. WALKER.....	1886	1897
NATHANAEAL GREENE HERRES- HOFF	1921	1938	WORCESTER REED WARNER...	1925	1929
FRIEDRICH GUSTAV HERRMANN	1884	1907	GEORGE WESTINGHOUSE	1897	1914
GUSTAV ADOLPH HIRN.....	1882	1890	SIR WILLIAM HENRY WHITE.	1900	1913
JOSEPH HIRSCH	1889	1901	SIR ALFRED FERNANDEZ YAR- ROW	1914	1932
IRA N. HOLLIS.....	1928	1930			
ROBERT WOOLSTON HUNT....	1920	1923			
BENJAMIN FRANKLIN ISHER- WOOD	1894	1915			
HENRI LÉAUTÉ	1891	1916			
ERASMUS DARWIN LEAVITT..	1915	1916			
HENRI LE CHATELIER.....	1927	1936			
ANATOLE MALLET	1912	1919			
CHARLES H. MANNING.....	1913	1919			
REAR-ADMIRAL GEORGE WAL- LACE MELVILLE	1910	1912			
THE HONORABLE SIR CHARLES ALGERNON PARSONS	1920	1931			
CHARLES TALBOT PORTER....	1890	1910			
AUGUSTE C. E. RATEAU....	1919	1930			
SIR EDWARD J. REED.....	1882	1906			
FRANZ REULEAUX	1882	1905			
CALVIN WINSOR RICE.....	1931	1934			
PALMER C. RICKETTS.....	1931	1934			
HENRI ADOLPHE-EUGENE SCHNEIDER	1882	1898			

LIVING HONORARY MEMBERS

	ELECTED
LORENZO ALLIEVI	1937
EDMUND BRUCE BALL.....	1939
HUTCHINSON I. CONE.....	1936
MORTIMER ELWYN COOLEY.....	1928
ALEX DOW	1936
WILLIAM FREDERICK DURAND.....	1934
HERBERT CLARK HOOVER.....	1925
DAVID SCHENCK JACOBUS.....	1934
MASAWO KAMO	1929
DEXTER SIMPSON KIMBALL.....	1939
CHARLES THOMAS MAIN.....	1939
GEORGE A. ORROK.....	1936
GRANDE UFFICIALE ING. PIO PERRONE	1920
EDWIN JAY PRINDLE.....	1939
WILLIAM H. TSCHAPPAT.....	1938
SAMUEL MATTHEWS VAUCLAIN....	1920
HENRY HAGUE VAUGHAN.....	1939
RIGHT HONORABLE LORD WEIR.....	1920
ORVILLE WRIGHT	1918

PAST-PRESIDENTS

A list of past vice-presidents, managers, treasurers, and secretaries will be found in the 1930 Record and Index, pages 10-12. Dates in parentheses denote year of death.

ALEXANDER LYMAN HOLLEY, *Chairman of the Preliminary Meeting for Organization of The American Society of Mechanical Engineers* (1882)

1880-1882	ROBERT HENRY THURSTON (1903)
1883	ERASMUS DARWIN LEAVITT (1916)
1884	JOHN EDSON SWEET (1916)
1885	JOSEPHUS FLAVIUS HOLLOWAY (1896)
1886	COLEMAN SELLERS (1907)
1887	GEORGE H. BABCOCK (1893)
1888	HORACE SEE (1909)
1889	HENRY ROBINSON TOWNE (1924)
1890	OBERLIN SMITH (1926)
1891	ROBERT WOOLSTON HUNT (1923)
1892	CHARLES HARDING LORING (1907)
1893-1894	ECKLEY BRINTON COXE (1895)
1895	EDWARD F. C. DAVIS (1895)
1895	CHARLES ETHAN BILLINGS (1920)
1896	JOHN FRITZ (1913)
1897	WORCESTER REED WARNER (1929)
1898	CHARLES WALLACE HUNT (1911)
1899	GEORGE WALLACE MELVILLE (1912)
1900	CHARLES HILL MORGAN (1911)
1901	SAMUEL T. WELLMAN (1919)
1902	EDWIN REYNOLDS (1909)
1903	JAMES MAPES DODGE (1915)
1904	AMBROSE SWASEY (1937)
1905	JOHN RIPLEY FREEMAN (1932)
1906	FREDERICK WINSLOW TAYLOR (1915)
1907	FREDERICK REMSEN HUTTON (1918)
1908	MINARD LAFEVER HOLMAN (1925)

1909	JESSE MERRICK SMITH (1927)
1910	GEORGE WESTINGHOUSE (1914)
1911	EDWARD DANIEL MEIER (1914)
1912	ALEXANDER CROMBIE HUMPHREYS (1927)
1913	WILLIAM FREEMAN MYRICK GOSS (1928)
1914	JAMES HARTNESS (1934)
1915	JOHN ALFRED BRASHEAR (1920)
1916	DAVID SCHENCK JACOBUS
1917	IRA NELSON HOLLIS (1930)
1918	CHARLES THOMAS MAIN
1919	MORTIMER ELWYN COOLEY
1920	FRED J. MILLER (1939)
1921	EDWIN S. CARMAN
1922	DEXTER SIMPSON KIMBALL
1923	JOHN LYLE HARRINGTON
1924	FREDERICK ROLLINS LOW (1936)
1925	WILLIAM FREDERICK DURAND
1926	WILLIAM LAMONT ABBOTT
1927	CHARLES M. SCHWAB (1939)
1928	ALEX DOW
1929	ELMER AMBROSE SPERRY (1930)
1930	CHARLES PIEZ (1933)
1931	ROY V. WRIGHT
1932	CONRAD N. LAUER
1933	A. A. POTTER
1934	PAUL DOTY (1938)
1935	RALPH E. FLANDERS
1936	WILLIAM L. BATT
1937	JAMES H. HERRON
1938	HARVEY N. DAVIS
1939	ALEXANDER G. CHRISTIE