

OFFICERS AND BOARD OF DIRECTORS, 1909-1910.

PRESIDENT.

(Term expires July 31, 1910.)

LEWIS BUCKLEY STILLWELL.

JUNIOR PAST-PRESIDENTS.

HENRY GORDON STOTT.

LOUIS A. FERGUSON

VICE-PRESIDENTS.

(Term expires July 31, 1910.)]

CUMMINGS C. CHESNEY.
BANCROFT GHERARDI.
CALVERT TOWNLEY.

(Term expires July 31, 1911.)

JOHN J. CARTY.
PAUL M. LINCOLN.
PAUL SPENCER.

MANAGERS.

(Term expires July 31, 1910.)

MORGAN BROOKS.
HAROLD W. BUCK.
PERCY H. THOMAS.
BENJAMIN G. LAMME.

(Term expires July 31, 1911.)

DAVID B. RUSHMORE.
W. G. CARLTON.
CHARLES W. STONE.
H. E. CLIFFORD.

(Term expires July 31, 1912.)

A. W. BERRESFORD.
WILLIAM S. MURRAY.
HENRY H. NORRIS.
SEVERN D. SPRONG.

TREASURER.

GEORGE A. HAMILTON,
Elizabeth, N. J.

(Term expires July 31, 1910.)

SECRETARY.

RALPH W. POPE,
33 West 39th Street, New York.

NOTE:—The Institute Constitution provides that the above named twenty-three officers shall constitute the Board of Directors.

PAST-PRESIDENTS.—1884-1909.

*NORVIN GREEN, 1884-5-6.

*FRANKLIN L. POPE, 1886-7.

T. COMMERFORD MARTIN, 1887-8.

EDWARD WESTON, 1888-9.

ELIHU THOMSON, 1889-90.

*WILLIAM A. ANTHONY, 1890-91.

ALEXANDER GRAHAM BELL, 1891-2.

FRANK J. SPRAGUE, 1892-3.

EDWIN J. HOUSTON, 1893-4-5.

LOUIS DUNCAN, 1895-6-7.

FRANCIS B. CROCKER, 1897-8.

A. E. KENNELLY, 1898-1900.

CARL HERING, 1900-1.

CHARLES P. STEINMETZ, 1901-2.

CHARLES F. SCOTT, 1902-3.

BION J. ARNOLD, 1903-4.

JOHN W. LIEB, JR., 1904-5.

SCHUYLER S. WHEELER, 1905-6.

SAMUEL SHELDON, 1906-7.

HENRY GORDON STOTT, 1907-8.

LOUIS A. FERGUSON, 1908-09.

*Deceased.

ASSISTANT SECRETARY.

FREDERICK L. HUTCHINSON,
33 West 39th Street, New York.

GENERAL COUNSEL.

PARKER and AARON,
52 Broadway, New York

LOCAL HONORARY SECRETARIES.

JAMES S. FITZMAURICE,
210 George St., Sydney, N. S. W.

H. F. PARSHALL,
Salisbury House, London Wall, E. C., London.

WILLIAM B. HALE,
Cadena 10, City of Mexico.

W. G. T. GOODMAN,
Adelaide, South Australia.

ROBERT J. SCOTT,
Christ Church, New Zealand

HENRY GRAFTIO, St. Petersburg, Russia.
L. A. HERDT, McGill University, Montreal, Que.

STANDING COMMITTEES.

EXECUTIVE COMMITTEE.

LEWIS BUCKLEY STILLWELL, *Chairman*,
100 Broadway, New York.
JOHN J. CARTY, *New York*.
C. C. CHESNEY, *Pittsfield, Mass.*
GEORGE A. HAMILTON, *Elizabeth, N. J.*
RALPH W. POPE, *New York*.
PAUL SPENCER, *Philadelphia, Pa.*
CALVERT TOWNLEY, *New Haven, Conn.*

FINANCE COMMITTEE.

CALVERT TOWNLEY, *Chairman*,
The Connecticut Co., *New Haven, Conn.*
BANCROFT GHERARDI, *New York*.
P. H. THOMAS, *New York*.

LIBRARY COMMITTEE.

EDWARD CALDWELL, *Chairman*,
239 West 39th St., *New York*.
W. G. CARLTON, *New York*.
CHARLES L. CLARKE, *New York*
H. E. CLIFFORD, *Cambridge, Mass.*
PHILIP TORCHIO, *New York*.

MEETINGS AND PAPERS COMMITTEE.

H. ST. CLAIR PUTNAM, *Chairman*,
100 Broadway, *New York*.
A. H. ARMSTRONG, *Schenectady, N. Y.*
DUGALD C. JACKSON, *Boston, Mass.*
PAUL M. LINCOLN, *Pittsburgh, Pa.*
WILLIAM MAVER, JR., *New York*.
WILLIAM McCLELLAN, *New York*.
RALPH D. MERSHON, *New York*.
WILLIAM L. ROBB, *Troy, N. Y.*
D. B. RUSHMORE, *Schenectady, N. Y.*
F. N. WATERMAN, *New York*.

EDITING COMMITTEE.

GEORGE F. SEVER, *Chairman*,
Columbia University, *New York*.
C. C. CHESNEY, *Pittsfield, Mass.*
H. E. CLIFFORD, *Cambridge, Mass.*
ALBERT F. GANZ, *Hoboken, N. J.*
HARRY N. LATEY, *New York*.

BOARD OF EXAMINERS.

HAROLD W. BUCK, *Chairman*,
49 Wall St., *New York*
H. H. BARNES, JR., *New York*.
W. G. CARLTON, *New York*.
MAURICE COSTER, *New York*.
DUGALD C. JACKSON, *Boston, Mass.*

SECTIONS COMMITTEE.

PAUL M. LINCOLN, *Chairman*,
P. O. Box 911, *Pittsburgh, Pa.*
H. R. KING, *Chicago, Ill.*
C. E. MAGNUSSON, *Seattle, Wash.*
D. B. RUSHMORE, *Schenectady, N. Y.*
A. M. SCHOEN, *Atlanta, Ga.*
PAUL SPENCER, *Philadelphia, Pa.*
S. D. SPRONG, *New York*.

STANDARDS COMMITTEE.

A. E. KENNELLY, *Chairman*,
Harvard University, *Cambridge, Mass.*
A. W. BERRESFORD, *Milwaukee, Wis.*
GANO DUNN, *Ampere, N. J.*
JOHN W. LIEB, JR., *New York*.
EDWARD B. ROSA, *Washington, D. C.*
CLAYTON H. SHARP, *New York*.
CHARLES F. SCOTT, *Pittsburgh, Pa.*
C. P. STEINMETZ, *Schenectady, N. Y.*
S. W. STRATTON, *Washington, D. C.*

CODE COMMITTEE.

C. W. STONE, *Chairman*,
General Electric Co., *Schenectady, N. Y.*
W. H. BLOOD, JR., *BOSTON, Mass.*
W. K. DUNLAP, *Pittsburgh, Pa.*
J. C. FORSYTH, *New York*.
H. B. GEAR, *Chicago, Ill.*
FARLEY OSGOOD, *Newark, N. J.*
GEORGE F. SEVER, *New York*.
H. S. WARREN, *New York*.
ARTHUR WILLIAMS, *New York*.

LAW COMMITTEE.

H. G. STOTT, *Chairman*,
600 West 59th St., *New York*
LOUIS A. FERGUSON, *Chicago, Ill.*
JOHN W. LIEB, JR., *New York*.
SAMUEL SHELDON, *Brooklyn, N. Y.*
PAUL SPENCER, *Philadelphia, Pa.*
CHARLES A. TERRY, *New York*.
CALVERT TOWNLEY, *New Haven, Conn*

SPECIAL COMMITTEES.

RAILWAY COMMITTEE.

WILLIAM McCLELLAN, Chairman,
90 West Street, New York.
E. H. ANDERSON, Schenectady, N. Y.
A. H. BABCOCK, San Francisco, Cal.
H. M. BRINCKERHOFF, New York.
J. H. DAVIS, Baltimore, Md.
L. C. FRITCH, Chicago, Ill.
JAMES HEYWOOD, Philadelphia, Pa.
O. S. LYFORD, JR., New York.
F. N. WATERMAN, New York.

EDUCATIONAL COMMITTEE.

DUGALD C. JACKSON, Chairman,
Massachusetts Institute of Technology, Boston
H. E. CLIFFORD, Cambridge, Mass.
O. H. ENSIGN, Los Angeles, Cal.
W. E. GOLDSBOROUGH, Denver, Colo.
C. O. MAILLOUX, New York.
SAMUEL SHELDON, Brooklyn, N. Y.
CHARLES F. SCOTT, Pittsburgh, Pa.
C. P. STEINMETZ, Schenectady, N. Y.
H. P. WOOD, Atlanta, Ga.

ELECTRIC LIGHTING COMMITTEE.

WILLIAM L. ROBB, Chairman,
P.O. Box 592, Troy, N. Y.
W. C. L. EGLIN, Philadelphia, Pa.
LOUIS A. FERGUSON, Chicago, Illinois.
FRANK W. FRUEAUFF, Denver, Colo.
HENRY A. LARDNER, San Francisco, Cal.
A. S. McALLISTER, New York.
A. M. SCHOEN, Atlanta, Ga.
H. A. WAGNER, New York.
W. F. WELLS, Brooklyn, N. Y.

HIGH TENSION TRANSMISSION COMMITTEE.

RALPH D. MERSHON, Chairman,
60 Wall St., New York.
JOHN HARISBERGER, Seattle, Wash.
W. S. LEE, Charlotte, N. C.
PAUL M. LINCOLN, Pittsburgh, Pa.
W. S. MOODY, Pittsfield, Mass.
PAUL N. NUNN, Provo, Utah.
H. J. RYAN, Stanford University, Cal.
W. N. RYERSON, Duluth, Minn.
P. H. THOMAS, New York.

INDUSTRIAL POWER COMMITTEE.

D. B. RUSHMORE, Chairman,
General Electric Co., Schenectady, N. Y.
A. W. BERRESFORD, Milwaukee, Wis.
GANO DUNN, Ampere, N. J.
R. S. FEICHT, Pittsburgh, Pa.
E. W. LLOYD, Chicago, Ill.
A. S. McALLISTER, New York.
R. B. OWENS, Charlotte, N. C.
B. R. SHOVER, Youngstown, Ohio.
R. B. WILLIAMSON, Milwaukee, Wis.

EDISON MEDAL COMMITTEE.

Appointed by the President
(Term expires July 31, 1910.)
CHARLES L. CLARKE, Chairman,
120 Broadway, New York.
T. C. MARTIN, New York.
W. HAND BROWNE, JR., West Raleigh, N. C.
(Term expires July 31, 1911.)
JOHN W. HOWELL, Newark, N. J.
SAMUEL REBER, New York.
CHARLES F. SCOTT, Pittsburgh, Pa.
(Term expires July 31, 1912.)
W. S. BARSTOW, New York.
GANO DUNN, Ampere, N. J.
CHARLES A. TERRY, New York.
(Term expires July 31, 1913.)
C. A. ADAMS, Cambridge, Mass.
DUGALD C. JACKSON, Boston, Mass.
CHARLES E. LUCKE, New York.
(Term expires July 31, 1914.)
PHILIP P. BARTON, Niagara Falls, N. Y.
JOHN J. CARTY, New York.
J. G. WHITE, New York.

Elected by the Board of Directors from its own membership.

(Term expires July 31, 1910.)
C. C. CHESNEY, Pittsfield, Mass.
B. GHERARDI, New York.
HENRY G. STOTT, New York.
(Term expires July 31, 1911.)
H. E. CLIFFORD, Cambridge, Mass.
LOUIS A. FERGUSON, Chicago, Ill.
PAUL SPENCER, Philadelphia, Pa.

Ex-officio Members.

(Term expires July 31, 1910.)
LEWIS BUCKLEY STILLWELL, President.
RALPH W. POPE, Secretary.
GEORGE A. HAMILTON, Treasurer.

CONSERVATION OF NATURAL RESOURCES COMMITTEE.

H. G. STOTT, Chairman,
600 West 59th St., New York.
W. L. ABBOTT, Chicago, Ill.
W. H. BLOOD, JR., Boston, Mass.
JOHN H. FINNEY, Washington, D. C.
JOHN COFFEE HAYS, Visalia, Cal.
T. C. MARTIN, New York.
H. S. PUTNAM, New York.

TELEGRAPHY AND TELEPHONY COMMITTEE.

WILLIAM MAVER, JR., Chairman,
136 Liberty Street, New York.
W. LEE CAMPBELL, Chicago, Ill.
LEE DE FOREST, New York.
I. T. DYER, Los Angeles, Cal.
BANCROFT GHERARDI, New York.
G. W. PICKARD, Amesbury, Mass.
L. M. POTTS, Baltimore, Md.
SAMUEL REBER, New York.
JOHN B. TAYLOR, Schenectady, N. Y.

SPECIAL COMMITTEES—Continued.

MEMBERSHIP COMMITTEE.

A. W. BERRESFORD, Chairman,
Cutler-Hammer Mfg. Co., Milwaukee, Wis.
PHILIP P. BARTON, Niagara Falls, N. Y.
GANO DUNN, Ampere, N. J.
H. A. FOSTER, Detroit, Mich.
BANCROFT GHERARDI, New York.
F. L. HUTCHINSON, New York.
H. R. KING, Chicago, Ill.
S. M. KINTNER, Pittsburgh, Pa.
O. S. LYFORD, JR., New York.
H. HOBART PORTER, New York.
H. L. SMITH, Schenectady, N. Y.
P. B. WOODWORTH, Chicago, Ill.

INTERMEDIATE GRADE OF MEMBERSHIP COMMITTEE.

CHARLES F. SCOTT, Chairman,
P. O. Box, 911, Pittsburgh, Pa.
K. L. AITKEN, Toronto, Ont.
WILLIAM McCLELLAN, New York.
GEORGE F. SEVER, New York.
PAUL SPENCER, Philadelphia, Pa.

HISTORICAL MUSEUM COMMITTEE.

T. C. MARTIN, Chairman,
29 West 39th Street, New York.
CHARLES L. CLARKE, New York.
P. B. CROCKER, New York.
HENRY W. POPE, New York.
E. W. RICE, JR., Schenectady, N. Y.
E. A. SPERRY, New York.
C. A. TERRY, New York.

INTERNATIONAL ELECTROTECHNICAL COMMISSION.

United States National Committee

A. E. KENNELLY, President, Cambridge, Mass.
CHARLES F. SCOTT, 1st V. P. Pittsburgh, Pa.
SAMUEL SHELDON, 2nd V. P., Brooklyn, N. Y.
RALPH W. POPE, Secretary, New York.
LOUIS BELL, Boston, Mass.
A. W. BERRESFORD, Milwaukee, Wis.
GANO DUNN, Ampere, N. J.
BANCROFT GHERARDI, New York
CARL HERING, Philadelphia, Pa.
JOHN W. HOWELL, Newark, N. J.
DUGALD C. JACKSON, Boston, Mass.
JOHN W. LIEB, JR., New York.
MALCOLM MacLAREN, Princeton, N. J.
WILLIAM MAVER, JR., New York.
WILLIAM McCLELLAN, New York.
RALPH D. MERSHON, New York.
H. ST. CLAIR PUTNAM, New York.
WILLIAM L. ROBB, Troy, N. Y.
EDWARD B. ROSA, Washington, D. C.
DAVID B. RUSHMORE, Schenectady, N. Y.
CLAYTON H. SHARP, New York.
CHARLES P. STEINMETZ, Schenectady, N. Y.
HENRY G. STOTT, New York.
SAMUEL W. STRATTON, Washington, D. C.

INSTITUTE REPRESENTATIVES.

ON BOARD OF AWARD, JOHN FRITZ MEDAL.

SAMUEL SHELDON, Brooklyn, N. Y.	LOUIS A. FERGUSON, Chicago, Ill.
HENRY G. STOTT, New York.	LEWIS B. STILLWELL, New York.

ON BOARD OF TRUSTEES, UNITED ENGINEERING SOCIETY.

HENRY G. STOTT, New York.	LOUIS A. FERGUSON, Chicago, Ill.
	LEWIS B. STILLWELL, New York.

ON JOINT COMMITTEE ON ENGINEERING EDUCATION.

CHARLES F. SCOTT, Pittsburgh, Pa.	SAMUEL SHELDON, Brooklyn, N. Y.
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ON GOVERNMENT ADVISORY BOARD ON FUELS AND STRUCTURAL MATERIALS.

FRANCIS B. CROCKER, New York.	HENRY G. STOTT, New York.
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ON COUNCIL OF AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.

SAMUEL SHELDON, Brooklyn, N. Y.	PERCY H. THOMAS, New York.
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LIST OF SECTIONS.

Name and when Organized	Chairman.	Secretary.
Atlanta.....Jan. 19, '04	H. P. Wood.	M. E. Bonyun, G. E. Co., Atlanta, Ga.
Baltimore.....Dec. 16, '04	J. B. Whitehead.	L. M. Potts, 107 East Lombard St., Baltimore, Md.
Boston.....Feb. 13, '03	D. C. Jackson.	A. L. Pearson, 93 Federal St., Boston, Mass.
Chicago.....1893	J. G. Wray.	E. N. Lake, 181 La Salle St., Chicago, Ill.
Cleveland.....Sept. 27, '07	H. L. Wallau.	F. M. Hibben, 807 The Cuyahoga Bldg., Cleveland, O.
Fort Wayne.....Aug. 14, '08	E. A. Wagner.	J. V. Hunter, Fort Wayne Electric Works, Ft. Wayne, Ind
Ithaca.....Oct. 15, '02	E. L. Nichols.	B. C. Dennison, Cornell University Ithaca, N. Y.
Los Angeles.....May 19, '08	J. A. Lighthipe.	J. E. MacDonald, 444 P. E. Bldg., Los Angeles, Cal.
Madison.....Jan. 8, '09	M. H. Collbohm	H. B. Sanford, Univ. of Wisconsin, Madison, Wis.
Mexico.....Dec. 13, '07	E. Leonarz.	W. A. Ferguson, Mex. Lt. & Pr. Co., Mexico, Mex.
Milwaukee.....Feb. 11, '10	W. H. Powell.	L. L. Tatum, Cutler-Hammer Mfg. Co., Milwaukee, Wis.
Minnesota.....Apr. 7, '02	J. C. Vincent.	J. H. Schumacher, 2716 University Ave., Minneapolis, Minn.
Norfolk.....Mar. 13, '03		R. R. Grant, P. O. Box 254, Norfolk, Va.
Philadelphia.....Feb. 18, '03	Geo. A. Hoadley.	H. F. Sanville, 608 Empire Building, Philadelphia, Pa.
Pittsburg.....Oct. 13, '02	C. B. Auel.	E. B. Tuttle, C. D. & P. Tel. Co., Pittsburgh, Pa.
Pittsfield.....Mar. 25, '04	H. W. Tobey.	L. F. Blume, G. E. Co., Pittsfield, Mass.
Portland, Ore.....May 18, '09	O. B. Coldwell.	L. B. Cramer, 720 Corbett Building, Portland, Ore.
San Francisco.....Dec. 23, '04	George R. Murphy	S. J. Lisberger, 445 Sutter St., San Francisco, Cal.
Schenectady.....Jan. 26, '03	M. O. Troy.	R. H. Carlton, Gen. Elec. Co., Schenectady, N. Y.
Seattle.....Jan. 19, '04	A. A. Miller.	W. S. Hoskins, 1428 21st Avenue, Seattle, Wash.
St. Louis.....Jan. 14, '03	A. S. Langsdorf.	George W. Lamke, Washington University, St. Louis, Mo.
Toledo.....June 3, '07	M. W. Hansen.	Geo. E. Kirk, 1649 The Nicholas, Toledo, O.
Toronto.....Sept. 30, '03	H. W. Price.	W. H. Eisenbeis, 1207 Traders' Bank Bldg., Toronto, Can.
Urbana.....Nov. 25, '02	Charles T. Knipp.	J. M. Bryant, 610 West Oregon St., Urbana, Ill.
Washington, D. C..Apr. 9, '03	Philander Betts.	M. G. Lloyd, Bureau of Standards, Washington, D. C.

Total, 25

LIST OF BRANCHES.

Name and when Organized.	Chairman.	Secretary.
Agricultural and Mechanical College of TexasNov. 12, '09	V. H. Braunig.	R. T. Shiels, A. and M. Col. of Tex., College Sta., Texas
Arkansas, Univ. of ...Mar. 25, '04	W. B. Stelzner.	F. S. White, 523 Willow St., Fayetteville, Ark.
Armour Institute ...Feb. 26, '04	Edward Sherwin.	J. E. Snow, Armour Inst. Tech., Chicago, Ill.
Case School, ClevelandJan. 8, '09	C. N. Weems.	S. G. Hibben, 2171 Cornell St., Cleveland, O.
Cincinnati, Univ. of ...Apr. 10, '08	C. R. Wylie.	Ralph B. Kersay, 315 Jackson St., Carthage, Ohio.
Colorado State Agricultural CollegeFeb. 11, '10	E. J. Falloon.	D. E. Byerley, 229 N. Loomis Street, Fort Collins, Colo.
Colorado, Univ. of ...Dec. 16, '04	E. A. Robertson.	A. P. Sunnergren, 1209 Penn., Boulder, Colo.
Iowa State College ...Apr. 15, '03	Frank K. Shuff.	M. W. Pullen, Iowa State College, Ames, Ia.
Iowa, Univ. ofMay 18, '09	H. E. Scheark.	A. H. Ford, University of Iowa, Iowa City, Ia.
Kansas State Agr. Col. Jan. 10, '08	R. E. Talley.	B. F. Eyer, 513 Fremont St., Manhattan, Kansas.
Kansas, Univ. ofMar. 18, '08	V. S. Foster.	R. L. Ponsler, Univ. of Kansas, Lawrence, Kans.
Lehigh UniversityOct. 15, '02	W. W. Broadbent.	Howard M. Fry, Lehigh University, Bethlehem, Pa.
Lewis InstituteNov. 8, '07	Frank Burch.	A. H. Fensholt, Lewis Institute, Chicago, Ill.
Maine, Univ. ofDec. 26, '06	A. T. Childs.	J. P. King, University of Maine, Orono, Maine.
Michigan, Univ. of ...Mar. 25, '04	E. B. McKinney.	Gerald J. Wagner, 454 S. First St., Ann Arbor, Mich.
Missouri, Univ. of ...Jan. 10, '03	H. B. Shaw.	A. E. Flowers, Univ. of Missouri, Columbia, Mo.
Montana State Col. ...May 21, '07	C. C. Kennedy.	J. A. Thaler, Montana State College, Bozeman, Mont.
Nebraska, Univ. of ...Apr. 10, '08	Geo. H. Morse.	V. L. Hollister, Station A, Lincoln, Nebraska.
New Hampshire Col. ...Feb. 19, '09	A. M. Buck.	T. A. Thorp, New Hampshire College, Durham, N. H.
North Carolina Col. of Agr. and Mech. ArtsFeb. 11 '10	Wm. H. Browne, Jr.	E. B. Moore, N.C.C.A. and M.A., West Raleigh, N.C.
Ohio State Univ.Dec. 20, '02	H. W. Leinbach.	F. L. Snyder, 128 E. Blake Ave., Columbus, Ohio.
Oregon State Agr. Col. Mar. 24, '08	E. R. Shepard.	W. Weniger, Ore. State Agricul. College, Corvallis, Ore.
Penn. State College ...Dec. 20, '02	H. H. Agee.	H. E. Smith, Penn. State College, State College, Pa.
Purdue Univ.Jan. 26, '03	C. F. Harding.	H. T. Plumb, Purdue University, Lafayette, Ind.
Rensselaer Polytechnic InstituteNov. 12, '09	E. D. N. Schulte	W. J. Williams, Rensselaer Poly. Institute, Troy, N. Y.
Stanford Univ.Dec. 13, '07	C. L. Bradley.	C. P. Taylor, Stanford University, California
Syracuse Univ.Feb. 24, '05	W. P. Graham.	R. A. Porter, Syracuse University, Syracuse, N. Y.
Texas, Univ. ofFeb. 14, '08	B. E. Kenyon.	J. A. Correll, University of Texas, Austin, Tex.
Wash., State Col. of ..Dec. 13, '07		M. K. Akers, State Col. of Wash., Pullman, Wash.
Washington Univ. ...Feb. 26, '04	H. F. Thomson.	George W. Pieksen, Washington University, St. Louis, Mo.
Worcester Poly. Inst. Mar. 25, '04	Ray H. Taber.	C. E. Putnam, Worcester Poly. Inst., Worcester Mass.

Total. 30.