

2992

Recd. & Ackdgd, May 3, 1907.
Forms sent, May 13, 1907.

CALVERT TOWNLEY.

Vice President Consolidated Railway Co. Consulting
Engineer, N.Y., N.H. & H.R.R.Co., New Haven, Conn.

MAY 13 1907 C. F. Scott. MAY 22 1907

MAY 13 1907 N. W. Storer. MAY 18 1907

MAY 13 1907 F. B. H. Paine. MAY 21 1907

MAY 13 1907 C. A. Terry. MAY 18 1907

MAY 13 1907 W. S. Murray. MAY 20 1907

MAY 13 1907 W. L. Robb. MAY 21 1907

MAY 13 1907 George Gibbs. MAY 10 1907

MAY 13 1907 E.H.McHenry. (See note on Record.) MAY 15 1907

JUN 7 1907

OK for the

JUL 26 '07

2992
No. 1097



American Institute of Electrical Engineers,

95 LIBERTY STREET, NEW YORK.

APPLICATION FOR TRANSFER FROM ASSOCIATE TO FULL MEMBERSHIP.

Extracts from the Constitution, as Amended May 21st, 1901.

ARTICLE II. MEMBERSHIP.

- The corporate members of the INSTITUTE shall be designated as Members and Associates. Members and Associates shall be equally entitled to all of the rights and privileges of the INSTITUTE, except eligibility to the offices of President and Vice-President, which shall be limited to Members; and Members only shall be entitled to a diploma. There shall also be Honorary Members, who shall be entitled to all the rights and privileges of the INSTITUTE, except the right to vote for officers and hold office.
- A Member shall have been an Associate, and at the time of his transfer to membership he shall be not less than twenty-seven years of age, and shall be:
 - A Professional Electrical Engineer; or
 - A Professor of Electrical Engineering; or
 - A person who has done important original work of recognized value to electrical science.
- To be eligible to membership as a professional Electrical Engineer, the applicant shall have been in the active practice of his profession for at least five years; he shall have had responsible charge of work for at least two years, and shall be qualified to design as well as direct electrical engineering works. Graduation from a School of Engineering of recognized standing shall be considered the equivalent of one year's active practice.
- To be eligible to membership as Professor of Electrical Engineering, the applicant shall have been in responsible charge of a course of Electrical Engineering at a college or technical school of recognized standing for a period of at least two years.
- An Associate shall be a person who is interested in or connected with the study or application of electricity.

ARTICLE III.

- An application for transfer from the grade of Associate to that of Member shall be made in a form prescribed by the Board of Directors, and shall embody a full record of the general technical education of the candidate and of his professional career. It shall be signed by the applicant, and shall refer to at least five members by whom he is personally known. Each of these references shall be requested by the Secretary to fill out a prescribed confidential form, to be addressed to the Board of Directors. No such application for transfer shall be considered until at least five favorable replies have been received. The Board of Directors, or the Board of Examiners, in the event of failure of replies, or receipt of unfavorable replies, may call upon the applicant to furnish additional names. Should an applicant for transfer certify that he is not personally known by five members, the Board of Examiners may accept references for the deficiency, to professional engineers of standing.

ARTICLE IV. DUES.

- The entrance fee, payable on admission to the INSTITUTE, shall be five (5) dollars. A fee of ten (10) dollars shall be paid on transfer to the grade of Member, which shall include the fee for a diploma.
- The annual dues shall be fifteen (15) dollars for members and ten (10) dollars for Associates.
- The annual dues of Members and Associates residing in foreign countries other than Canada and Mexico, shall be ten (10) and five (5) dollars, respectively.

SPECIAL INSTRUCTIONS TO APPLICANT.

Statements of fact responsive to the following inquiries, are desired for the information of the Board of Directors and Board of Examiners.

These statements may be required to be verified by the oath of the applicant.

When required to give references to "Professional Engineers of Standing," preference should be given to full members of the American Institute of Civil Engineers, the American Society of Mechanical Engineers, American Institute of Mining Engineers, the Society of Naval Architects and Marine Engineers, the Canadian Society of Civil Engineers, all of America, or the Institution of Civil Engineers, the Institution of Mechanical Engineers, and the Institution of Electrical Engineers of Great Britain.

- What is your full name? Give date and place of birth.
 - Please state under which one or more of clauses *a, b, c* of Section 2, Article II, quoted above, in your opinion, you are eligible for transfer to membership.
 - What is your general and technical education; where and how acquired?
 - (a) State in full the nature of the work done by you as a professional electrical engineer, during a period of five years or more, noting especially the work of which you have had responsible charge. Or,
 - State in what college or technical school of recognized standing you have had responsible charge for two years or more of a course of electrical engineering. Or,
 - State fully, instances of important original work of recognized value to electrical science which you have done.
- State fully any facts you may deem likely to assist in determining the question or questions here under inquiry.

REFERENCE.

See Article III. Sec

As references occasionally fail to form queries, thus delaying action, and are not referred to send names of more persons if possible.

- C. G. Scott*
P.O. Box 911 Pittsburg
- N. W. Stoner*
P.O. Box 90 Pittsburg
- J. B. H. Paine*
Ingersoll Const. Co. Buffalo N.Y.
- C. A. Terry*
111 W. Broadway
- W. J. Murray*
New Haven Conn. N.Y. N.H.
- W. L. Robb*
Rensselaer Poly. Inst. Troy N.Y.
- George Gibbs*
- E. H. Bridge St. N.Y.C.*
- E. H. McHenry* (see note)

Present Address *Calvert Townley - New Haven, Conn.*

Vice President, Consolidated Railway Co.

Occupation *Consulting Engineer, New York, New Haven & Hartford RR Co.*

Born, October 18, 1864 - at Cincinnati, Ohio.
 Applicant was graduated from Sheffield Scientific School, Yale University Ph. B. 1886 - Post graduate degree M. E. 1888 with Electrical studies.

Applicant was employed on a force rebuilding the Central lighting station 1887 by the Brush E. L. Co. Cincinnati, O. - engaged by the Westinghouse Electric Co. as erecting engineer Oct. 1887 - was put in office charge of the design of electric lighting distribution systems 1887-8. From the latter part of 1888 to 1895 applicant was as formerly engaged in commercial & executive work for the Westinghouse Co. & his engineering experience was subordinate to other duties.

From 1895 to 1897 "in" from 1898 to 1900 applicant was "Manager" for the Westinghouse E & M Co. in Boston with combined, executive, engineering & commercial duties & in charge throughout New England. He was also associated with the Pittsburg Engineers of his company in much of the engineering which that organization did in New England & of which the following installations are examples: - the Lincoln Wharf power house & the electrical equipment of the elevated railway rolling stock Boston Elevated Ry Co. - the electrical equipment of the South Terminal Station Boston, - the industrial system of the New York Shipbuilders Co. Camden, N. J. - the polyphase transmission system & the city lighting system of the Hartford Electric Light Co. &

From Jan. 1901 to Dec. 1904, applicant was General Agent for the Westinghouse E & M Co. with headquarters in New York City, & in charge of their relations with

large transportation interests in & about that city. He was associated with other engineers of his company in the engineering which that organization did on the following works: - Complete equipment of the Brooklyn Rapid Transit Co's systems, both elevated & surface including power houses sub stations & cars - Intertown Rapid Transit Co, generators, synchronous converters, car motors - New York City Ry Co. - construction of the Williams Bridge power house and equipment of a number of substations - etc etc.

Dec 1904 applicant became acting Fourth Vice Pres. New York New Haven & Hartford R.R. Co. in charge of all the electrical work of that system whether transportation, transmission, lighting or power. The largest & most important work was the electrification of the New York division from Wadsworth to Stamford. Applicant was also made Assistant to the President, Consolidated Railway Co. in charge of the engineering, construction & operation of that Company's trolley systems, electric lighting & power transmission. Applicant in the fall of 1905 became First Vice Pres. Consolidated Railway Co. & Consulting Engineer N.Y. N.H. & H. R.R. Co. on their electrical work.

In addition to applicant's work for the N.Y. N.H. & H. R.R. Co. the trolley systems for which he has had responsible charge of the electrical engineering some for all and some for a part of the time from Dec. 1904 to date are those in or between the following cities & towns: - in New York state - Haasick Falls, Mamaroneck, Portchester - in Conn. - Ansonia, Branford, Bridgeport, Danabon, Derby, Greenwich, Hartford, Manchester, Meriden, Middletown, Milford, Naugatuck, New Britain, New Haven, New London, Norwich, Pulnaue, Rockville Southington, So Norwich, Stafford Springs, Stamford

APPLICANT'S RECORD.

Suffield, Torrington, Wallingford, Waterbury
 Willimantic, Winsted, in Mass. - Adams, Blackstone
 Chicopee, Great Barrington, Huntington, Lee, Lenox
 Monson, No. Adams, Palmer, Puttfield, Southbridge
 Springfield, Stockbridge, Sturbridge, Ware, Webster
 Westfield, Whitinsville, Williamstown, ^{and in Vermont}
 Bennington,

The electric lighting systems are the central
 stations in Braintree, Greenwich, New Britain,
 Norwalk, Suffield, Waterbury ^{and} adjacent territory

The power transmission is that of the New Milford
 Power Co. on the Housatonic River near Gaylordsville
 6000 kw. 33000 volts

I hereby certify that the foregoing is true
 Calvert Townley

New Haven, Conn.

April 29, 1904

Note: -

I have added to my references the name
 of E. H. McHenry a civil engineer of high standing
 who tho' not in the N. J. E. Co. is a Vice Pres of the
 N. Y. N. H. & H. R. R. Co. and is more familiar with my
 work for that Co than is any member



American Institute of Electrical Engineers

33 WEST 39TH STREET, NEW YORK

This form must in all cases be filled out by applicant for transfer, and forwarded with his record of professional experience given on Form 34.

The applicant should carefully observe whether sufficient details and dates are given in the record to enable him to answer the following questions. The conclusions of the Board of Examiners may be largely determined by the information thus placed before it.

Full name of Applicant Calvert Townley

Date April 29, 1907

Under which clause or clauses, *a*, *b*, or *c*, of Section 2, Article II, of the Constitution, does the applicant apply for transfer. See Form 34.

Answer by Applicant. Clause "a"

CLAUSE a. PROFESSIONAL ELECTRICAL ENGINEER.

Is the applicant a graduate "from a School of Engineering of recognized standing?"

Answer by Applicant. yes Comment by Board of Examiners

Has the applicant "been in the active practice of his profession for at least five years" (or four years, if a graduate), and are the dates and details of work shown in applicant's record, Form 34?

Answer by Applicant. yes Comment by Board of Examiners

Has the applicant "had responsible charge of work for at least two years," and are dates and instances of such work shown in applicant's record, Form 34?

Answer by Applicant. yes Comment by Board of Examiners

Is applicant "qualified to design as well as erect electrical engineering works," and are examples thereof verified by references having knowledge of such work, noted in applicant's record, Form 34?

Answer by Applicant. yes Comment by Board of Examiners

CLAUSE b. PROFESSOR OF ELECTRICAL ENGINEERING.

Has applicant "been in responsible charge of a Course of Electrical Engineering at a college or technical school of recognized standing for a period of at least two years?"

Answer by Applicant. yes
no Comment by Board of Examiners

CLAUSE c. IMPORTANT ORIGINAL WORK.

Has the applicant "done important original work of recognized value to electrical science," and is an instance thereof given in the applicant's record, Form 34?

Answer by Applicant. yes
no Comment by Board of Examiners

An applicant may apply under either or all of clauses *a*, *b*, or *c*, according to his own judgment.

REMARKS.