



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.

1. 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.

2. 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. A Professional Electrical Engineer; or

b. A Professor of Electrical Engineering; or

c. A person who has done important original work of recognized value to electrical science.

3. 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.

4. 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.

5. An Associate shall be a person who is interested in or connected with the study or application of electricity.

ARTICLE III.

3. 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.

1. 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.

2. The annual dues shall be fifteen (15) dollars for members and ten (10) dollars for Associates.

3. 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.

1. What is your full name? Give date and place of birth.
2. 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.
3. What is your general and technical education; where and how acquired?
4. (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,
 - (b) 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,
 - (c) 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.

REFERENCES.

See Article III. Section 3.

As references occasionally fail to reply to inquiries, thus delaying action, applicants are requested to send names of more than five full members if possible.

Mr. Thomas D. Lockwood, 125
Milk Street, Boston, Mass.

Dr. Samuel Sheldon, Polytechnic
Institute, Brooklyn, N. Y.

Professor Harris J. Ryan, Cor-
nell University, Ithaca, N. Y.

Mr. G. A. Hamilton, Western
Electric Company, #463 West
Street, New York City.

Professor George F. Sever, Co-
lumbia University, New York
City.

Mr. J. J. Carty, #15 Dey
Street, New York City.

Mr. W. D. Sargent, #81 Wil-
loughby St., Brooklyn, N. Y.

Present Address #81 Willoughby Street, Brooklyn, N. Y.

Occupation Chief Engineer of the New York and New Jersey Telephone
Company.

This Record must be Signed by Applicant with Pen and Ink.

1: Bancroft Gherardi.

April 6, 1873.

San Francisco, Cal.



2: In my judgment I am eligible for transfer to membership under Clause "A" of Section 2, Article 2, of the Constitution - that is to say, as a professional Electrical Engineer.

3: I finished my preparatory school education at the Polytechnic Institute of Brooklyn, graduating from there in June 1891 with the degree of Bachelor of Science. I then went to Cornell University and took the course in Electrical Engineering in Sibley College, receiving the degree of Mechanical Engineer in June 1893. I remained at Cornell for a year of graduate work in Electrical and Mechanical Engineering, and in June 1894 received the degree of Master of Mechanical Engineering.

4: In February 1895 I entered the employ of the New York Telephone Company (then the Metropolitan Telephone & Telegraph Company) in the office of Mr. J. J. Carty, the Chief Engineer, and remained with him as one of his assistants until December 1899. During the time that I was a member of his department, I was engaged on all of the various types of work performed in the Engineering Department of a large Telephone Company. Much of my work had to do with the general arrangement of the telephone plant of New York and cities in the vicinity. In connection with this work I made studies to determine the proper number and arrangement of central offices for the places in question and laid out the corresponding subway systems. In the

case of one city I prepared the detailed specifications and plans for the underground construction work and acted as Superintendent-in-Charge during the construction. During the latter part of my work under Mr. Carty, I devoted special attention to the question of the efficiency of telephone transmission on underground cables of various types and aerial circuits of various sizes of wire. In connection with this work I did a great deal of experimenting to determine the laws governing such transmission.

In December 1899 I was made Engineer of the Traffic Department of the New York Telephone Company. My duties in connection with this position were to originate all recommendations for new switchboards and additions to switchboards required by the Company in connection with its business, determining from the traffic conditions that existed the amounts and character of various classes of equipment that would be required. I also studied and passed upon many questions concerning methods of operation.

In January 1901 I was made the Chief Engineer of the New York & New Jersey Telephone Company and have continued to hold that position up to the present time, my duties making me responsible for the planning of all of the construction work done by the Company or by others for the Company. A considerable number of fire-proof central office buildings and new switchboards and toll boards have been designed and constructed under my supervision. I have during the last three years devoted special attention to the commercial application of the Pupin loading coils to our underground cable system.

Bancroft Gherardi

May 25