

Application for transfer to the grade of
Member

No. 1236

1801

Recd. March 8, 1909.

R. F. SCHUCHARDT,

Engineer, Electrical Construction,
Commonwealth Edison Company, Chicago, Ill.

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|---------------|-----------------|-------------|-------------|
| ✓ MAR 11 1909 | L. A. Ferguson, | (Member) | MAR 26 1909 |
| ✓ MAR 11 1909 | P. Junkersfeld, | " | MAR 26 1908 |
| MAR 11 1909 | D. C. Jackson, | " | MAR 26 1908 |
| MAR 11 1909 | C. F. Burgess, | " | |
| ✓ MAR 11 1909 | W. G. Carlton, | " | MAR 22 1909 |
| ✓ MAR 11 1909 | J. G. Wray, | (Associate) | MAR 27 1909 |

Recommended April 9/1909



American Institute of Electrical Engineers,

33 WEST 39TH STREET, NEW YORK.

APPLICATION FOR TRANSFER FROM THE GRADE OF ASSOCIATE
TO MEMBER.

EXTRACTS FROM THE CONSTITUTION.

ARTICLE II.

3. The membership of the INSTITUTE shall consist of Honorary Members, Members and Associates. Members and Associates shall be equally entitled to all of the rights and privileges of the INSTITUTE, excepting that Members only shall be eligible to the offices of President and Vice-President, and shall be entitled to a diploma. Honorary Members shall be entitled to all the rights and privileges of the INSTITUTE, except the right to vote for officers and to hold office.

4. A Member shall not be 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; or
d. A person duly qualified as an engineer in an allied branch of engineering, and who, for a period of two years, has had responsible charge of electrical engineering work and whose professional record indicates that he is competent to design, as well as direct, electrical engineering works.

5. To be eligible to the grade of Member 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.
6. To be eligible to the grade of Member 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.

ARTICLE III.

10. All applications for admission to the INSTITUTE shall be made for the grade of Associate, in a form prescribed by the Board of Directors, and shall refer to at least three (3) Members or Associates. In applying for admission to the INSTITUTE as Associate, any person may also apply at the same time for immediate transfer to the grade of Member. Such application for transfer may also be made at any time subsequent to election as Associate.

11. 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 who know him personally and are familiar with his work. 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 applications 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, for the deficiency, references to professional engineers of standing.

12. The reference to Members to whom an applicant is personally known may be waived in case of foreign applications; but the applicant shall in that case refer to at least two professional engineers of recognized standing.

14. All elections as Associates, and transfers to the grade of Membership, shall be by vote of the Board of Directors; two negative votes shall exclude a candidate.

15. The Board of Directors may refuse to elect or transfer any applicant whose character, reputation or professional conduct would make him, in the opinion of the Board of Directors an undesirable member.

ARTICLE IV.

DUES.

18. 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.

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

20. Honorary Members shall be exempt from all payments.

21. Persons elected after any portion of the fiscal year shall have expired, shall pay dues pro rata for the unexpired quarters of that fiscal year.

REFERENCES.

See Article III. Section II.

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. If non-members their addresses should be given.

Mr. L. A. Ferguson

Mr. P. Junkersfeld

Prof. D. C. Jackson

Mr. J. G. Wray

Prof. C. F. Burgess

Mr. W. G. Carlton

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, or to any other approved American or foreign national engineering body.

1. What is your full name? Give date and place of birth at the beginning of record on top of next page.
2. Please state under which one or more of clauses a, b, c, d of Section 3, 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 (not the electrical art) which you have done. State fully any facts you may deem likely to assist in determining the question or questions here under inquiry.
(d) Give record of technical education and general engineering as well as electrical engineering experience.

Name and Present Address

R. F. Schuchardt - Chicago

Occupation

Engineer of Electrical Construction - Commonwealth - Edison Co

APPLICANT'S PROFESSIONAL RECORD.

| Periods of actual practice. Dates. | Please place in margin the necessary dates showing periods of actual practice to correspond with text of professional record. If not typewritten, the record should be in plain handwriting, using standard abbreviations only. |
|------------------------------------|--|
| | Give date and place of birth : |
| | Dec. 14, 1875. Milwaukee Wis |
| June 1897 | Graduated from Elect. Eng. course at Univ. of Wisconsin |
| July to Sept '97 | With Janesville Elec. Lt. Power Co. as general utility man. |
| Sept to Dec. '97 | With capitalist planning installation of small central station. |
| Dec 97 to July 98 | With Meysenburg Bldg as engineering salesman. |
| July 1-98 to date | With Commonwealth Edison Co. (formerly Chicago Union Co. and Commonwealth Electric Co) as follows: - |
| 1898 | Substation operator 5 weeks |
| | In charge of exhibit at Omaha Exposition 12 weeks |
| - 1899 | In Statistical Dept - one year |
| Nov. '99 to Nov. '06 | In Testing Dept through all the stages from assistant to acting head, the latter for 14 months. During part of 1903 + 04 I had charge of the electrical operation of First St Station when the 5000 kw turbo-generators were first installed and operated in parallel with a reciprocating engine station. |
| | While acting head of the Testing Dept I was responsible for and personally directed all engineering and acceptance tests on all station and sub-station apparatus installed. This included three turbo generators, 23 rotary converters and 10 |

NOTE: The Applicant's personal signature, in ink, must appear at the end of this record.

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|---------------------------------------|--|
| | frequency changer units aggregating a total of 54000 kw capacity. |
| 14 months in responsible charge | Some of the special studies conducted by me at the time were. the determination of the factors affecting the parallel operation of frequency changer sets in general and the value of these factors in our installations in particular; the relation between power factor and d.c. voltage for given field constants of our rotary converters, etc. From the results of these studies standards were adopted in the matters covered. In addition I directed all of the other engineering work of the Department. |
| Nov. '06 to date | In Engineering Dept. as Engineer of Electrical Construction. In this work I have charge of all electrical construction in our stations and substations. During these 28 months we have installed four 9000 kw turbo generators, two of 14000 kw capacity and a total of 16000 kw in converting apparatus, principally in units of 2000 kw capacity, or a total of 80000 kw rated capacity. All of these installations were made, tested and put into service under my direction. |
| 28 months in responsible charge. | |
| Total 42 months in responsible charge | R. F. Schuchardt Mar. 6. 1906 |

NOTE: The Applicant's personal signature, in ink, must appear at the end of this record.