



American Institute of Electrical Engineers

33 WEST 39TH STREET, NEW YORK.

APPLICATION FOR TRANSFER FROM THE GRADE OF ASSOCIATE TO MEMBER.

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NEERS

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 engineering works;
 - 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 11.

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.

Geo. H. Rowe, Chicago. B. G. Lanne,

H. P. Davis, H. D. James,

P. M. Lincoln, C. A. Adams,

A. S. McAllister, William Stanley,

Mr. Julius Heubach, Dresden-Heidenau,

(Germany) is familiar with my

early practice in Europe

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. E. Hellmuth, 608 F. Dallas Ave.*

Occupation *Electr. Eng. - Westinghouse El. & Mfg. Co. Pittsburgh, Pa.*

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 : Rudolf Emil Hellmund, borne
	Febr. 2nd -1879 * Gotha, Germany. *
	General education : Realschule Gotha
	Technical education: Technikum Ilmenau
	Polytechnikum Charlottenburg-Berlin.
Oct-1898 to	El. Eng. in Engineering departement of Saechsische Elekticitaets-
April 1899	werke, vormals Poeschmann & Co. Heidenau - Dresden.
	Design of D.C. and A.C. machines as assistant of Mr. Julius Heubahn.
April 1899 to	El. Engineer in laboratories of Land & Seekabelwerke, Coeln- Nippes.
April 1900	Testing and investigation on cables, especially high voltage cables.
April 1900 to	El. Eng. of Maschinenfabrik - Esslingen, Electrical Division Gaux
Oct. 1902.	in Cannstatt. One year design of electrical machinery and apparatus.
	One year and six month in charge of testing departement and design
	of electrical apparatus; also in responsible charge of factory
	powerstation, which supplied current for the factory and the
	tramway system of Cannstatt.
Aug. 1903 to	Krantz Mfg. Co., Brocklyn, N.Y. Design of circuit breakers.
Dec. 1903	
Dec. 1903 to	Assistent of Mr. Grant B. Rossman, New-York. Design of a tlegraphic
May 1904	device for transmitting drawings.
	Hereafter I spent some time in travelling over the States.
Jan. 1905 to	Stanley Instrument Co., Great- Barrington, Mass. I spent first
June 1905	a short time in laying out the mechanical design of some induction
	motors and was then personel assistant to Mr. William Stanley, while
	he was working on his selfcompounding alternator and low frequency
	exciter.

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

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.
June 1905 to	Eng. Departement of Western Electric Co., Hawthorne Ill.
Oct. 1907	I was first for three or four month assisting Mr. Geo. H, Rowe
	in investigating the patentsituation on Induction motors. After
	Mr. Rowe ^{had} left the Western Electric Co. during the latter part of
	1905, I was in responsible charge ^{the division for} of all A. C. motor design of the
	Western Electric Co. and devel/oped their lines of induction motoss
	as well as a number of synchronous motors.
Oct. 1908 to	Eng. Departement Westinghouse EL, & Mfg. Co., East- Pittsburg, Pa.
this date.	With the exception of the first two month I was in responsible
	charge of extensive developement work on varies lines of induction
	motors.
	In consideration of the above record I believe to be eligible
	as Professional Engineer.
	In addition to the above I may call attention to my literary
	work. Although most of my articles and papers apply chiefly to
	the electrical art, some of them might possibly be considered as
	to be of value to electrical science; for instance:
	Graphical Treatement of Higher Harmonics- Article in El. World
	Jun e 30th-1906.
	The Rotating Magnetic Field- Article in Electrical Review
	Sept. 22nd-1906.
	Graphical Treatement of the Rotating Field- Paper read before
	the A.I.E.E. at Atlantic City.
	Zig-Zag Leakage- Paper read before the A.I.E.E. at Niagara Falls.
	Graphische Behandlung der Streuung in Inductionsmotoren.- Article
	n in Elektrotechnische Zeitschrift Jan. 14th-1909.
	etc.

*Must have been 1907
wed 19/24*

R. E. Hellmund

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