



AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS

33 WEST 39TH STREET NEW YORK

APPLICATION FOR TRANSFER TO THE GRADE OF FELLOW.

(To be used only by Members in good standing on May 21, 1912,  
in accordance with "Special Section" of Constitution and By-Laws.)

See qualifications for transfer on the back of this form.

Acknowledged JAN 24 1913  
References JAN 28 1913  
Recommended Seton  
Transferred

1913

Board of Directors,  
American Institute of Electrical Engineers.

Dear Sirs:

I hereby apply for transfer from the grade of **MEMBER** to that of **FELLOW** under the Special Section of the Constitution, adopted May 21, 1912.

My age is 47 years.

I consider myself eligible for transfer under Clause (b), Section 4, of the Constitution.

The specific work upon which my application is based covers a period of 25 years.

1888-9 Instructor in Physics, Cornell, in charge Dynamo Laboratory  
1889-92 Asst. Prof. Elec. Eng. Acting Charge Elec. Eng. Dept., Sibley College  
1892-95 Asst. Prof. " " " " " " " " " " " "  
1895-1905 Professor " " " " " " " " " " " "  
1905-Present " " " " " " " " " " " "  
and A.E.E. Papers.  
117 West 58 St. New York  
and Stanford University

In compliance with the constitutional requirement, I give the names of the following references to be communicated with by the Secretary, as indicated upon the back of this form.

REFERENCES.

(The applicant will please give the names of not less than five Fellows or Members.)

- Fellow Mr. Ralph D. Merston, Cornell Univ. Ithaca, N.Y.
- Fellow Prof. Henry N. Norris, Dept. Eng. Stanford Univ., Calif.
- Member Prof. A. E. Kennelly, Mass.
- Fellow Prof. Dagald C. Jackson, Tech. Boston Mass. Last of Tech Boston
- Fellow Mr. Eano Dunn, 117 West 58 St. New York
- Fellow Mr. C. O. Mallow, 5-19 West End Ave. New York

Signature Harry J. Ryan

Present occupation Professor of Electrical Engineering, Stanford University, Calif.

Address (P.O.) Stanford University, Calif.

Mem. Apr. 17-1895



Received November 1, 1922.

Acknowledged November 1, 1922.

# AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS

## Record of Application for

TRANSFER TO THE GRADE OF FELLOW

1001

No. 3986

Name Prof. Harris J. Ryan, Professor of Electrical Engineering

Address Stanford University, California.

References	Grade	Communicated With	Second Request	Replies Received
B A Behrend	Fellow			NOV 1 1922
H W Buck	"			NOV 1 1922
B J Arnold	"			NOV 1 1922
J J Carty	"			NOV 1 1922
G Faccioli	"			NOV 1 1922
P M Lincoln	"			NOV 1 1922
W McClellan	"			NOV 1 1922
A S McAllister	"			NOV 1 1922
E W Rice, Jr.	"			NOV 1 1922
J B Whitehead	"			NOV 1 1922
C F Scott	Member			NOV 1 1922

Action by Board of Examiners *Recommended*

Date NOV 6 - 1922

Action by ~~Board of Directors~~ *Transferred*

Date JAN 17 1923

1001



**AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS**

33 WEST 39TH STREET, NEW YORK, N. Y.

**APPLICATION FOR TRANSFER TO THE GRADE OF FELLOW.**

**QUALIFICATIONS FOR TRANSFER.**

The qualifications for transfer to the grade of Fellow are set forth in Article II, Section 4, of the Constitution, which is printed on the last page of this form. Applicants are urged to read these extracts carefully in order that they may have a perfect knowledge of the constitutional requirements.

Applicant's name Harris J. Ryan

Present title or occupation Professor of Electrical Engineering, Stanford University

Business address Stanford University, California.

**TRANSFER FEES AND DUES.**

Transfer fee from the grade of Associate to that of Fellow, Ten (10) dollars.  
Transfer fee from the grade of Member to that of Fellow, Five (5) dollars.  
The annual dues for the grade of Fellow are Twenty (20) dollars.

**REFERENCES.**

Sec. 10 (Constitution). Applicants shall give references as follows:

For the grade of Fellow, to five Fellows.

Should an applicant for the grade of Fellow, either for direct admission or for transfer, certify that he is not personally known by five Fellows, the Board of Examiners may accept, for the deficiency, references to five professional engineers of standing. (This clause has been interpreted to apply only to applicants whose location or conditions of work are such that it is unreasonable to expect them to make reference to members of the institute.)

References should be selected who have personal knowledge of the applicant's engineering experience.

As references occasionally fail to reply promptly to inquiries, it is suggested that applicants furnish more than the required number of names.

**REFERENCES.**

<b>Fellow</b> <u>A. S. McAllister</u>	<b>Fellow</b> <u>E. W. Rice, Jr.</u>	<b>Fellow</b> <u>J. J. Carty</u>
<b>Fellow</b> <u>J. B. Whitehead</u>	<b>Fellow</b> <u>P. M. Lincoln</u>	
<b>Member</b> <u>Charles F. Scott</u>	<b>Fellow</b> <u>Wm. McClellan</u>	
<b>Fellow</b> <u>H. W. Buck</u>	<b>Fellow</b> <u>B. A. Behrend</u>	
<b>Fellow</b> <u>G. Faccioli</u>	<b>Fellow</b> <u>Bion J. Arnold</u>	

(Member - 1895)

The following information is required by the Board of Examiners. Failure to give details will delay action on the application.

The applicant should state under which clause or clauses, a, b, c, d, of Section 4, Article II, of the Constitution, application is made, and give a full record of professional career, with particular reference to the period of responsible charge or the experience upon which the application is based.

APPLICANT'S RECORD  
(Typewritten copy preferred)

1. Name Harris Joseph Ryan  
(give in full)
2. Present occupation Professor of Electrical Engineering, Stanford University  
(title, and name of concern)
3. Business address Stanford University, California.
4. Date and place of birth Powells Valley, Penna., January 8, 1866.
5. Constitutional clause (b)  
(see paragraph above)
6. General and technical education Baltimore City College, 1879-1880;  
Lebanon Valley, 1880-1882; M.E. Cornell University, 1887.

7. Record of professional experience

Dates here	
1888	Member Western Engineering Company, Lincoln, Nebraska.
1889	Instructor in charge Elec. Machinery Laboratory, Cornell Univ.
1890-1895	Asst. Prof. Elec. Engineering, in provisional charge of department.
1895-1905	Prof. Elec. Engineering, in charge of department, Cornell University
1905-pres.	" " " " " " " Stanford University
1918-1919	In charge Supersonics Laboratory, National Research Council, Pasadena, California.

Researches

- Transformers. Proc. A.I.E.E., vol. vii, Jan., 1890, p. I.
- On the relation of the air gap and the shape of the poles to the performance of dynamo machinery. Trans. A.I.E.E. vol. vii, Oct., 1891, p. 451.
- A method for preventing armature reaction. (With M. E. Thompson.) Trans. A.I.E.E., vol. vii, Mar. 20, 1895, p. 84
- The Cathode ray alternating current wave indicator. Trans. A.I.E.E., vol. xxii, 1903, p. 539.

Dates here

Applicant's Record (continued)

- The conductivity of the atmosphere at high voltages. Trans. A.I.E.E., vol. xxiii, 1904, p. 101.
- Some elements in the design of high pressure insulation. Int. Elec. Congress, St. Louis, vol. i, 1904, p. 575.
- Compressed gas as an insulator. Elec. Journ., vol. ii, 1905, p. 429; Elec. World, vol. xlvi, July 22, 1905, p. 148.
- Open atmosphere and dry transformer oil as high voltage insulators. Trans. A.I.E.E., vol. xxx, Feb. 1911, p. I.
- A power diagram indicator for high tension circuits. Trans. A.I.E.E., vol. xxx, April 1911, p. II, p. 1089.
- Polarity in polyphase current circuits. Presented to the Los Angeles section of A.I.E.E., Journ. Elec. Power and Gas, vol. xxvii, Nov., 1911, p. 447.
- Sphere gap discharge voltages at high frequencies. (With J.C. Clark.) Trans. A.I.E.E., vol. xxxiii, June 1914, p. I, p. 973.
- The high voltage potentiometer. Proc. A.I.E.E., vol. xxv., Aug., 1916, p. 1187.
- Ceramics in relation to the durability of porcelain insulators. Paper read at the meeting of the San Francisco section A.I.E.E., Nov. 24, 1916; Journ. Elec. Power and Gas, Dec. 2, 1916.
- Unit voltage duties in long suspension insulators. (With H.H. Henline.) Trans. A.I.E.E., July 21, 1920, vol. xxxix, p. 1669.
- Flashover of insulators for 220-kv. lines. Presented to the San Francisco section A.I.E.E. Elec. World, Sept. 17, 1921, vol. 78, p. 561.
- High voltage insulator durability studies. Stanford's cooperation with power transmission engineers and committees of the N.E.L.A. See reports and discussions in Proceedings, Transactions and Technical Press.

Signed..HARRIS J.. RYAN:.....

Dated .October 23.. 1922.....

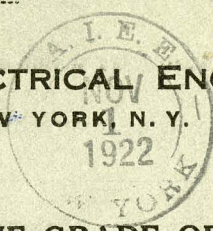
NOTE: The Applicant's personal signature, in ink, must appear at the end of this record.

If not sufficient space, the record may be continued on separate sheets of this size



# AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS

33 WEST 39TH STREET, NEW YORK, N. Y.



## APPLICATION FOR TRANSFER TO THE GRADE OF FELLOW.

### QUALIFICATIONS FOR TRANSFER.

The qualifications for transfer to the grade of Fellow are set forth in Article II, Section 5, of the Constitution, which is printed on the last page of this form. Applicants are urged to read these extracts carefully in order that they may have a perfect knowledge of the constitutional requirements.

Applicant's name Harris J. Ryan

Present title or occupation Professor of Electrical Engineering, Stanford University

Business address Stanford University, California.

### TRANSFER FEES AND DUES.

Transfer fee from the grade of Associate to that of Fellow, Fifteen (15) dollars.

Transfer fee from the grade of Member to that of Fellow, Five (5) dollars.

The annual dues for the grade of Fellow are Twenty (20) dollars.

### REFERENCES.

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<input checked="" type="checkbox"/> Fellow J. B. Whitehead	<input checked="" type="checkbox"/> Fellow P. M. Lincoln	
<input checked="" type="checkbox"/> Member Charles F. Scott	<input checked="" type="checkbox"/> Fellow Wm. McClellan	
<input checked="" type="checkbox"/> Fellow H. W. Buck	<input checked="" type="checkbox"/> Fellow B. A. Behrend	
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*(Member - 1895)*

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(give in full)
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4. Date and place of birth Powells Valley, Penna., January 8, 1886.
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(see paragraph above)
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1888	Member Western Engineering Company, Lincoln, Nebraska.
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Signed

*Harris J. Ryan*

Dated... October 23, 1922.

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