

THE INSTITUTE OF THE AERONAUTICAL SCIENCES, Inc.

NEW YORK

with ballot
OK job

PROPOSAL FOR MEMBERSHIP

TYPEWRITTEN PREFERRED

B25
P 47

Name Ephraim Watkins Cleveland
(In full and with title if used)
 Name and initials preferred for mail E.W. Cleveland
 Address preferred for mail 3734 E 78 St Cleveland-O
 Present Occupation Sales Pilot Cleveland Pneumatic Tool Co
 Education: Degrees and Institutions attended since 1927

Member of what Scientific or Engineering Societies S.A.E

Publications, particularly aeronautical, with references

Brief statement of qualifications, particularly aeronautical landing gear test reports
Flying since 1911. Civilian instructor
Rantoul & Ellington fields during World War
Contest Chairman 1931-1932 National Air Races
 Pilot Rating Transport (a Pioneer ICA)

If Biography has been published, where?

Grade recommended: Scientific Engineering Industrial Pilot Junior

Proposed by [Signature]
 Seconded by [Signature]

Date 1/20/33

Below for Office Use.

| | | | |
|----------------|-----------|----------------|-----------|
| Proposed..... | Date..... | Invited..... | Date..... |
| Ballot No..... | Date..... | Accepted..... | Date..... |
| Approved..... | Date..... | Qualified..... | Date..... |



INSTITUTE
OF THE
AERONAUTICAL SCIENCES
2 EAST 64TH STREET
NEW YORK 21, N. Y.

OFFICE RECORD
No. 1895
Rec'd. 2-25-52
Ack. 2-25-52
Elec. 4-9-52 Reg.
Grade AF-1251
Qual. 4-16-52 AF
Cert.
Pin. 4-9-52

APPLICATION FOR ADVANCE IN GRADE

To the Membership Committee of the Institute of the Aeronautical Sciences:

I request an advance in my grade of membership in the Institute. My present grade is.....Member.....

Name in full (Please print).....E. W. Cleveland.....

Address for Mail.....Cleveland Pneumatic Tool Company, 3781 East 77 St., Cleveland, O......

Date.....February 18, 1952..... Signature.....E. W. Cleveland.....

INSTRUCTIONS

PLEASE READ THE FOLLOWING INSTRUCTIONS CAREFULLY BEFORE COMPLETING THIS FORM.

Supplementary Professional Record. Please bring your Professional Record up to date by furnishing data concerning your employment or changes in position subsequent to your election to your original grade of membership. Designate each engagement or change in position by the use of a separate line, with starting and terminating dates in the left-hand column. For each entry give:

- (1) Name and address of employer.
- (2) Your title or position, avoiding unqualified use of the terms "Aeronautical Engineer" and "Consulting Engineer."
- (3) An outline of your work including duties, degree of responsibility and the extent to which you are responsible for the work of others.

Additional Data. (Please see reverse side of this form.) Give any data, subsequent to the filing of your original application, about advanced study and degrees, pilot certificates held, awards received, papers presented at meetings or published, patents, contributions to aeronautics, membership in other societies, etc. Give dates and places if possible.

References. Name four references who are familiar with your aeronautical activities. **Signatures are not required;** addresses of non-members must be supplied. Two of the references listed **must** be members of the Institute; designate grades next to their names if known. If possible, name at least one more than the required number of references.

Note: If applicant believes he may be qualified for the grade of Associate Fellow, his four references **must** be members of the Institute, of whom two or more **must** be Fellows or Associate Fellows.

SUPPLEMENTARY PROFESSIONAL RECORD

(PLEASE FILL IN BY HAND LETTERING OR TYPEWRITER)

From 1927 To present

I have been associated with the Cleveland Pneumatic Tool Company, the oldest and largest manufacturer of landing gears for aircraft, since 1927. Have had responsible charge of development of landing gear for B-19 and B-36. Now Vice President and Director of that company. During this period I have received six United States Patents on landing gear devices for aircraft; which are as follows:

- | | |
|------------------------|------------------------|
| 2, 174, 312 - 9/26/39 | 2, 276, 466 - 3/17/42 |
| 2, 163, 459 - 6/20/39 | 2, 291, 571 - 7/28/42 |
| 2, 263, 717 - 11/21/41 | 2, 299, 613 - 10/20/42 |

(OVER)

SUPPLEMENTARY PROFESSIONAL RECORD

(CONTINUED)

| From | To | |
|------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| March 1941 | present | Founder and President of Aero Engineering, Inc., manufacturers representatives and field engineers for companies such as AiResearch Manufacturing Company, Los Angeles, California, etc. |
| 1947 | present | Vice President of Airframe Supply Company, Akron, Ohio. |
| 1949 | present | Treasurer of Air Cruisers, Inc., leading manufacturers of inflatable rubber life rafts and other equipment for aircraft. |
| May 1951 | present | Chairman of Cleveland-Akron Section of Institute of the Aeronautical Sciences. |

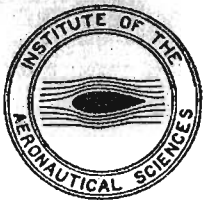
ADDITIONAL DATA

(PLEASE FILL IN BY HAND LETTERING OR TYPEWRITER)

| Dates | |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1911 to present | <p>I have been an active pilot since 1911 and have almost 10,000 hours of flying time.</p> <p>Member of the Wings Club; Governor of the Cleveland Hangar Quiet Birdmen; Member of Society of Automotive Engineers; Member of Al Koran Temple - AAONMS.</p> |

REFERENCES

1. *F* Mr. A. T. Colwell, V.P. Thompson Products, Inc., (Cleveland, ~~NO.~~ *723555 Euclid Ave,*) (~~Fellow~~)
 Chairman of the Board and General Manager of Northrop
2. *F* (Gen. O. P. Echols (Ret.) Aircraft, Inc., Hawthorne, California (~~Fellow~~))
3. *F* Mr. E. F. Burton, Ch. Engr. Douglas Aircraft Co., Inc. Santa Monica, Calif. (~~follow~~)
 V.P. and Director of Shell Oil Company, New York *50 W. 39th St*
4. *HF* Gen. J. H. Doolittle (~~Ret.~~) (~~Honorary Fellow and Past President of Institute~~)
5. *F* E. R. Sharp, Director, NACA, LFPL, 21000 Brookpark Road, Cleveland, O. (~~Fellow~~)



INSTITUTE
OF THE
AERONAUTICAL SCIENCES
INC.

2 EAST 64TH STREET
NEW YORK 21, N. Y.

25 FEBRUARY 1952

Dear Sir:

An application for membership in the Institute of the Aeronautical Sciences has been received from
CLEVELAND, E. W. (NO DEGREE).

ASSOCIATED WITH THE CLEVELAND PNEUMATIC TOOL COMPANY SINCE 1927. PRESENT TITLE:
VICE PRESIDENT AND DIRECTOR,
FOUNDER AND PRESIDENT, AERO ENGINEERING, INC., 3/41 TO DATE.
VICE PRESIDENT, AIRFRAME SUPPLY COMPANY, 1947 TO DATE.
TREASURER, AIR CRUISERS, INC., 1949 TO DATE.

who has given your name as one of the references required under our By-Laws.

For the CONFIDENTIAL information of the Membership Committee, will you please reply to the questions below. The Membership Committee believes it to be important to every member of the Institute that the standards for the various grades of membership be maintained. In all cases the Committee needs the recommendation of each person named as a reference. The non-return of the information requested cannot be regarded as disapproval of the applicant. Your cooperation in promptly returning the completed form will be appreciated by both the applicant and the Institute. All replies are kept confidential.

ROBERT R. DEXTER, Secretary

How long have you known applicant? *30 years ±* Have you ever been associated with him in aeronautical engineering or an allied field? *Only indirectly*

Do you recommend applicant for membership in the Institute? If so, please indicate below the highest grade of membership for which you believe the applicant to be technically qualified. Excerpts from our By-Laws pertaining to the various grades of membership appear on the back of this sheet.

If the applicant is requesting an advance in grade, his present grade will be underscored.

Technical Member Associate Member Member Associate Fellow

PRESENT GRADE

Please describe below, from your personal knowledge, any work in aeronautics or the allied sciences performed by the applicant which would qualify him for the grade recommended and the degree of his responsibility for such work. Please give your opinion of the applicant's general reputation among specialists in his field and any further comments you may wish to make pertaining to this application.

Outstanding aeronautical authority, pilot and businessman.

Recommend for advancement in grade

(Further comments may be continued on the back of this sheet)

Date *Mar. 4, 1952*

Signature *A. H. [Signature]*



Excerpts from By-Laws — Membership Requirements

SECTION 1. All persons engaged in the practice of the aeronautical sciences or in other work which contributes to the advancement of the aeronautical sciences shall be eligible in one of the grades of membership of the Institute. Consideration in grading is given to professional education and experience, publications, academic position, membership in other scientific and engineering societies, record of aeronautical designs created and contributions to scientific knowledge. *A Bachelor's Degree in science or engineering shall be considered the equivalent of four years of aeronautical experience.*

SECTION 6. An Associate Fellow shall have been engaged for not less than ten years in the practice of the aeronautical sciences; and shall have been in responsible charge of important scientific or engineering work in aeronautics, or shall have done original work of outstanding character, or shall have otherwise made outstanding contributions to the aeronautical sciences. Applicants for this grade shall be recommended by not less than four members of the Institute of whom two or more shall be Fellows or Associate Fellows.

SECTION 7. MEMBERS shall be persons who have been engaged in professional work for at least eight years and have acquired a recognized standing in engineering, design, research, instruction, test flying, the application of the aeronautical sciences, or the technical development of the manufacture or operation of aircraft, aircraft power plants or other essential components or accessories of aircraft. To qualify for this grade applicants shall be recommended by not less than four persons of whom not less than two shall be members of the Institute.

SECTION 8. Associate Members shall be persons engaged in the application or development of aeronautics in administrative or other positions and who have acquired a recognized standing in aeronautics. Applicants for this grade shall be recommended by not less than four persons of whom not less than two shall be members of the Institute.

SECTION 9. Technical Members shall be former Student Members who have graduated and others engaged in scientific or engineering work in aeronautics or fields closely related to aeronautics. To qualify for this grade applicants shall be recommended by not less than four persons of whom not less than one shall be a member of the Institute.