# METALLURGICAL ABSTRACTS 

 (GENERAL AND NON-FERROUS)VOLUME 2
(New Series)

EDITED BY
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Secretary

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# EXTRACTS FROM THE RULES 

(MEMORANDUM AND ARTIOLES OF ASSOOIATION.)

## MEMBERS AND MEMBERSHIP

Rate 0 ,-Members of the Institute shall be Honorary Members, Fellows, Ordinary Members or Student Members.

Rule 6.-Ordinary Members shall be of such age (not being less than twenty-one years) as shall be determined from time to time by the Councll and/or provided in the Bye-laws. They ahall be either :
(a) persons engaged in the manufacture, working, or use of non-ferrous metals and alloys;
(b) persons of scientific, technical, or literary attainments, connected with or interested in the metal trades or with the application of non-ferrous metals and alloys, or engaged in their scientific investigations.
Student Members shall be admitted and retained as Student Members within such limits of age [17-23 years] as sball be determined from time to time by the Oouncil and/or provided in the Bye-lawe, and shall be either
(a) Students of Metallurgy ; or
(b) pupils or assistants of persons qualifed for ordinary membership, whether such persons are actually members of the Institute or not.
Student Members shall not be eligible for election on the Council, nor shall they be entitled in rote at the meetings of the Institute, or to nominate candidates for ordinary membersbip.

Hula 7.-Subjeet to the forcgoing two clauses, and as bereinafter provided, election to memberehip shall be hy the Council, and all applications for membership shall be in writing in the form [overleaf] marked " $A$," or suob other form as may from time to time be authorized by the Council, and anch application must be aigned by the applicant and not less than three members of the Institute.

Membership ahall not begin until the entrance fee and first annual subscription bave been paid.

Lule 8.-A pplication for membership as Ordinary or Student Members shall be submitted to the Council for approval, The names of the approved applicants shall be placed on a list which shall be exhibited in the library of the Institute for at least fifteen days immediately after the Council Maeting at whigh such names were approved. Copies of such lists shall be supplied to the Secretaries of Local Sections of the Institute for inspection by members, and in any other manner to members as may from time to time be prescribed by the Council.

Any objection to any candidate whose name is so exhibited or notifed to members shall be made in writing to the Secretary within twenty-one days of the date when the list shall frat be so

At s subsequent Counell Meetiag the applications for membership of persons whose names shall have been so exhibited shall be further considered, and the Council may, in their absolute discretion, plect or regeot suoh applicanta, and may refuse any application although previously approved without giving any reason for such refusal. Non-election shall not necessarily prejudice the candidate for election concerned in any future application for election.

## SUBSCRIPTIONS

Rule 9.-Unless and until otberwise determined by the Council and/or provided in the Bye-laws the subincription of cach Ordinary Member shall be f3 3s. per annum, and of each Student Member £1 1s. par annum. Ordinary Members ahall pay an Entrance Fee of $£ 22 s$. each and Student Members an Eutrance Fee of $£ 1$ 1s. each

Kules and (or regulations may be made by the Council from time to time for the transference of Student Members from that status to that of Ordinary Members, including the fxing of an entrance fea to bo payable on any such tranafer of such a sum as the Oouncil may from time to time prescribe, and/or the waiver of any such.

The Council may, in fixing such sum, take into consideration the prior payment of entrance fees by Student Members.

Subscriptions shall be payable on election and subsequently in advance on July 1st in each year, or otherwise as ahall be determined from time to time by the Council and/or provided in the Bye
lawe.

## DUTIES AND OBLIGATIONS OF MEMBERS

Rule 12.-Every member shall be bound :
(a) To further to the best of bis ability and jodgmeat the objects, purposes, interests, and infuence of the Institute.
(b) To observe the provisions of the Memorandum of Association of the Institute, the Articles, and the Bye-laws.
(c) To pay at all times, and in the manner prescribed, such entrance fees on election, auch fees on transference from one class of membership to another, and such annual subscriptions as shall for the time being be prescribed.
(d) To pay and make good to the Institute any loss or damage to the property of the Institute caused by his wilful act or defanlt.
Rule 13. - Every member, in all his profeseional relations, ahall be guided by the bighest principles of honour, and uphold the dignity of bas profession and the reputation of the Inatitute.

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## Symbols and Abbreviations Used in Text.

A. Angstrom units. abs. absolute.
a.c. alternating current( B ). amp. ampère(s).
amp.-hr. ampère-hour(s).
A.W.G. American wire-gauge.

Bé. Baumé.
B. \& S. Brown \& Sharpe (gauge).
B.H.P. brake horse-power.
B.O.T. Board of Trade.
B.th.u. British thermal units.
B.T.U. Board of Trade unit.
B.W.G. Birmingham wire-gauge.
C. centigrade.
cal. calorie(s).
c.c. cubic centimetre(s).
cg. centigramme(s).
e.g.s. centiraetre-gramme-second.
cm . centimetre(s).
cm. ${ }^{2}$ square centimetre(s).
$\mathrm{cm} .^{3} \quad$ cubic centimetre(s).
coeff. coefficient(s).
const. constant(s).
c.p. candle-power.
C.T.U. centigrade thermal units.
cwt. hundredweight(s).
d density.
d.c. direct current(s).
dg. decigramme(8).
diam. diameter(s).
dm. decimetre(s).
dm. ${ }^{2}$ square decimetre(s).
dm . $^{3}$ cubic decimetre(s).
e.m.f. electromotive force( $(\mathrm{s})$
F. Fahrenheit.
ft. foot; feet.
$f \mathrm{ft}{ }^{2}$ square foot.
ft. ${ }^{3}$ cubic foot.
ft.-lb. foot-pound(s).
gall. gallon(s).
grm. gramme(s).
H.-F. high-irequency.

H-ion. hydrogenion.
H.P. horse-power.
H.P.-hr. horse-power hour(s).
hr. hour.
hrs. hours.
in. inch; inches.
in. ${ }^{2}$ square inch.
in. ${ }^{8}$ cubic inch.
in.-lb. inch-pound(s).
I.S.W.G. Imperial standard wire-gauge.
K. absolute temperature (scale).
K.C.U. kilogramme-degree-centigrade heat unit ( $=3.97$ B.th.u.).
kg. kilogramme(s).
kg.m. kilogramme-metre(s).
km. kilometre(s).
km. ${ }^{2}$ square kilometre.
kv. kilovolt(s).
kva. kilovolt-ampère(s).
kw. kilowatt(s).
kw.-hr. kilowatt-hour(s).
lb. pound(s).
L.-F. low-frequency.
m. metre(s).
m. ${ }^{2}$ square metre(s).
$\mathrm{m}^{3} \quad$ cubic metre(s).
m.amp. milliampere(s).
max. maximum.
mg. milligramme(s).
mm . millimetre(s).
mm. ${ }^{2}$ square millimetre(s).
mm. ${ }^{3}$ cubic millimetre(s).
m.m.f. magnetomotive force(s).
$\mathrm{m} \mu$ millimicron.
m. F . millivolt(s).
$N$. normal.
N.T.P. normal temperature and pres. sure.
oz. ounce(s).
P.C.E. pyrometric cone equivalent.
p.d. potential difference.
p.p.m. parts per million.
R. Réaumur.
r.p.m. revolutions per minute.
sp. gr. specific gravity.
sq. square.
$\nabla$. volt(s).
va. volt-ampère(s).
w. watt(s).
w.-hr. watt-hour(s).
w.p.c. watts per candle.
degree(s) (arc or temperature).
per cent.
wave-length.
micron.
1 millionth micron $=0.1 \mathrm{~A}$. ohm.
minute of the arc.
second of the arc.
$\mathbf{A}<\mathbf{B}$ denotes that $\mathbf{A}$ is less than B.
$A>B$ denotes that $A$ is greater than B.
negative of $<$; $A \nless B$ denotes that $A$ is not less than B.
combination of $<$ and $=$; $\mathbf{A} \leq \mathbf{B}$ denotes that $\boldsymbol{\Lambda}$ is equal to or less than B.
is not equal to.
identically equal to.
approximately (or essentially) equal to.

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