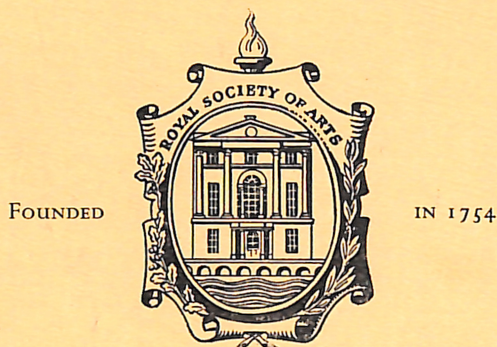


To prospective Fellows

Attention is specially drawn to Section X ("Members") on pages 10 to 13, and particularly to Bye-Law 61

THE ROYAL SOCIETY FOR
THE ENCOURAGEMENT OF ARTS
MANUFACTURES AND
COMMERCE



CHARTER AND
BYE-LAWS

JOHN ADAM STREET, ADELPHI, LONDON, W.C.2

ROYAL CHARTER OF INCORPORATION

OF THE SOCIETY FOR THE ENCOURAGEMENT OF ARTS MANUFACTURES AND COMMERCE.

*Granted in the tenth year of the Reign of Her Most Gracious Majesty
Queen Victoria, and the 93rd Session of the Society, Anno Domini, 1847*

VICTORIA by the Grace of God of the United Kingdom of Great Britain and Ireland Queen Defender of the Faith. To all to whom these presents shall come Greeting

WHEREAS Sir Isaac Lyon Goldsmid Baronet Baron de Goldsmid de Palmeira in the Kingdom of Portugal Sir Josiah John Guest Baronet a member of our Commons House of Parliament William Pole of Lincolns Inn in the County of Middlesex and William Tooke of Russell Square in the same County Esquires and others of our loving subjects members of a Society established in the year One thousand seven hundred and fifty three for the encouragement of the Arts Manufactures and Commerce of the Country by bestowing rewards for such productions inventions or improvements as should tend to the employment of the poor to the increase of trade and to the riches and honour of the Kingdom by promoting industry and emulation and which Society from that period hitherto as is represented to us has been engaged in promoting those objects of national interest by bestowing pecuniary and honorary rewards for meritious works in the various departments of the Fine Arts for discoveries inventions and improvements in Agriculture Chemistry Mechanics Manufactures and other useful Arts for the application of such natural and artificial products whether of home colonial or foreign growth and manufacture as appeared likely to afford fresh objects of industry and to increase the trade of the realm by extending the sphere and operations of British Commerce

AND WHEREAS it has been further represented to us that in the prosecution of these said several objects the same Society has since its establishment expended a sum of One hundred thousand Pounds or thereabouts and is still actively engaged in the advancement development and practical application of every department of Science in connexion with the Arts Manufactures and Commerce of the Country as aforesaid and is in possession of funds by bequests endowments donations and subscriptions for efficiently continuing to carry on the purposes aforesaid and has also a House Museum and Library

AND WHEREAS in order to secure the property of the said Society and to extend its useful operations and at the same time to give it a more permanent establishment among the Literary and Scientific Institutions of our Kingdom many of which in various sub-divisions of Art and Science have emanated from it we have been besought to grant to the said Sir Isaac Lyon Goldsmid Sir Josiah John Guest

William Pole and William Tooke and to those who now are or shall hereafter become Members of the same Society our Royal Charter of Incorporation for the purposes aforesaid

NOW KNOW YE that we being desirous of encouraging a design so laudable and salutary of our especial grace certain knowledge and mere motion HAVE WILLED GRANTED AND DECLARED and DO by these presents for us our heirs and successors WILL GRANT AND DECLARE that the said Sir Isaac Lyon Goldsmid Sir Josiah John Guest William Pole and William Tooke and such others of our loving subjects as now are Members of the said Society or shall at any time hereafter become Members thereof according to such regulations or Bye Laws as shall be hereafter framed or enacted shall by virtue of these presents be the Members of and form one body politic and corporate for the purposes aforesaid by the name of "THE SOCIETY FOR THE ENCOURAGEMENT OF ARTS MANUFACTURES AND COMMERCE" by which name they shall have perpetual succession and a common seal with full power and authority to alter vary break and renew the same at their discretion and by the same name to sue and be sued implead and be impleaded answer and be answered unto in every court of us our heirs and successors and be for ever able and capable in the law to purchase receive possess hold and enjoy to them and their successors any goods and chattels whatsoever and also to be able and capable in the law (notwithstanding the Statutes of Mortmain) to take purchase possess hold and enjoy to them and their successors a Hall or House and any Messuages Lands Tenements or Hereditaments whatsoever the yearly value of which including the site of the said Hall or House not to exceed in the whole the sum of Three thousand pounds computing the same respectively at the rack rent which might have been had or gotten for the same respectively at the time of the purchase or acquisition thereof and to act in all the concerns of the said body politic and corporate for the purposes aforesaid as fully and effectively to all intents effects constructions and purposes whatsoever as any other of our liege subjects or any other body politic in our United Kingdom of Great Britain and Ireland not being under any disability might do in their respective concerns

AND we do hereby grant our special licence and authority unto all and every person and persons bodies politic and corporate otherwise competent to grant sell alien and convey in Mortmain unto and to the use of the said body politic and corporate and their successors any messuages lands tenements or hereditaments not exceeding such annual value as aforesaid And our will and pleasure is and we further grant and declare that there shall be a General Meeting or General Meetings of the Members of the said body politic and corporate to be held from time to time as hereinafter mentioned and that there shall be a Council to direct and manage the concerns of the said body politic and corporate and that the General Meetings and the Council shall have the entire direction and management of the same in the manner and subject to the regulations hereinafter mentioned But our will and pleasure is that at all general meetings and meetings of the Council the majority of the

Members present and having a right to vote thereat respectively shall decide upon the matters propounded at such meetings the person presiding therein having in case of an equality of numbers a second or casting vote

AND we do hereby also will grant and declare that there shall be a President Vice-Presidents and two Treasurers of the said body politic and corporate and that the Council shall consist of the President the Vice-Presidents the Treasurers and not more then twenty-four nor less than twelve other Members of the said body politic and corporate

AND we do hereby further will and declare that our Royal Consort HIS ROYAL HIGHNESS PRINCE ALBERT OF SAXE-COBURG AND GOTHA shall be the first President of the said body politic and corporate and the other persons now being the Vice-Presidents Treasurers and other Members of the Council of the said Society shall be the first Members of the Council of the said body politic and corporate and shall continue such until the election of Officers shall be made in pursuance of these presents

AND we do hereby further will and declare that it shall be lawful for the Members of the said body politic and corporate hereby established to hold a general meeting once in the year or oftener for the purposes hereinafter mentioned namely That a general meeting shall choose the President Vice-Presidents the Treasurers and other Members of the Council That the general meetings shall from time to time make and establish such Bye Laws as they shall deem to be useful and necessary for the regulation of the said body politic and corporate for the admission of Members for the management of the estates goods and business of the said body politic and corporate for fixing and determining the number of Vice-Presidents and the number of the other Members of the Council as aforesaid and the time and manner of electing the President Vice-Presidents Treasurers and other Members of the Council and the period of their respective continuance in office and such Bye Laws from time to time shall or may alter vary or revoke and shall or may make such new and other Bye Laws as they shall think most useful and expedient for the said body politic and corporate so that the same be not repugnant to these presents or to the laws and statutes of this our realm and shall and may also enter into any resolution and make any regulation respecting any of the affairs and concerns of the said body politic and corporate that shall be thought necessary and proper

AND we do further will and declare that the first such general meeting as aforesaid for the election of Officers shall take place within twelve calendar months from the date of these presents and that the present rules and regulations of the said Society so far as they are not inconsistent with these presents shall continue in force until the same shall be altered by a General Meeting

AND we further will grant and declare that the Council shall have the sole management of the income and funds of the said body politic and corporate and also the entire management and superintendence of all the other affairs and concerns thereof and shall and may but not

inconsistently with or contrary to the provisions of this our Charter or any existing Bye Law or laws and statutes of this realm do all such acts and deeds as shall appear to them necessary or essential to be done for the purpose of carrying into effect the objects and views of the said body politic and corporate

PROVIDED always and we do will and declare that the Council shall from time to time render to a General meeting a full and particular account of all such their proceedings as aforesaid and that it shall be lawful for every member of the body politic and corporate to see and examine the accounts of the receipts and payments of the said body politic and corporate

AND we further will grant and declare that the whole property of the said body politic and corporate shall be vested and we do hereby vest the same solely and absolutely in the Members thereof and that they shall have full power and authority to sell alienate charge and otherwise dispose of the same as they shall think proper but that no sale mortgage incumbrance or other disposition of any messuages lands tenements or hereditaments belonging to the said body politic and corporate shall be made except with the approbation and concurrence of a General Meeting

AND we do hereby further will and declare that the service of the President Vice-Presidents Treasurers and other Members of the Council shall be honorary and that it shall not be lawful for them or any of them to receive any pecuniary payment for their attendance or other services in or about the affairs of the said body politic and corporate and that no dividend gift division or bonus in money shall be made out of the funds of the said body politic and corporate unto or between any of its Members

AND we lastly declare it to be our royal will and pleasure that no resolution or Bye Laws shall on any account or pretence whatsoever be made by the said body politic and corporate in opposition to the general scope true intent and meaning of this our Charter or the laws of statutes of our realm and that if any such rule or Bye Law shall be made the same shall by absolutely null and void to all intents effects construction and purposes whatsoever

IN witness whereof we have caused these our letters to be made patent

WITNESS Ourselves at our palace at Westminster this tenth day of June in the tenth year of our reign

By Writ of Privy Seal

EDWARDS

BYE - LAWS

I.—The President.

1. The President shall be elected annually as provided hereunder.

II.—The Vice-Presidents.

2. The Vice-Presidents shall be elected annually as provided hereunder.

III.—The Treasurers.

3. The two Treasurers shall be elected annually as provided hereunder.

4. All moneys, except investments, and except a sum not exceeding one hundred pounds for petty cash expenses, shall be kept at the bankers of the Society, in the name of the Corporate body, and except as provided hereunder payments thereout shall be made by cheques on such bankers, signed by either of the Treasurers, and countersigned by the Secretary (or his deputy as authorized by the Council), for the discharge of such liabilities of the Society as shall severally exceed twenty-five pounds. A subsidiary banking account may be maintained at the Society's bankers and in the Society's name, by cheques signed as aforesaid by either of the Treasurers and countersigned by the Secretary (or his deputy as authorized by the Council), and used for the following purposes only, viz. : the payment of cash wages, the purchase of postage and National Insurance stamps, and the payment of accounts severally not exceeding twenty-five pounds, the cheques for payments on such subsidiary account being signed by the Secretary (or his deputy as authorized by the Council), and countersigned by the Accountant.

5. All cheques drawn on the Society's main account shall be authorized or confirmed by the Council.

IV.—The Council.

6. Subject to the provisions of these Bye-laws the Council shall consist of the President, not more than twelve Vice-Presidents, the two Treasurers, and twenty-four other Members of the Society, called "Ordinary Members of the Council".

7. The Election of Members of the Council shall take place in the manner hereinafter provided, and the result of the Election shall be declared at the Annual General Meeting. The Council may fill any casual vacancy in their number until the next Annual General Meeting.

8. The Council shall not later than the 31st day of May in each year designate one of its members, who shall have served on the Council at least since the last Annual General Meeting, to serve as Chairman of the next Council, and that Council at its first meeting shall elect as its Chairman either that Member or some other Member who shall have served on the Council at least since the last Annual General Meeting.

9. The Chairman of the Council, after two years' service, shall not be re-eligible to the office for at least one year.

10. Ordinary Meetings of the Council shall be held as the Council

may determine. Extraordinary Meetings of the Council shall be convened by the Secretary at any time on the requisition of the Chairman, of a Treasurer, or of any three Members of the Council.

11. Subject and without prejudice to the powers and duties by the Charter and the Bye-Laws for the time being in force vested in General Meetings of the Society, the Council shall have the sole control and management of the affairs and concerns of the Society, and of its property income and Funds for the uses, purposes, and benefit of the Society.

12. The Council may make, vary, and rescind regulations for their Meetings and proceedings, for the appointment and proceedings of Committees, and generally for the management of the affairs of the Society subject always to the provisions of the Charter and the Bye-Laws for the time being in force.

13. Except when otherwise directed by the Bye-Laws for the time being in force, three members of the Council shall, until otherwise determined, form a quorum at all meetings of the Council.

V.—The Secretary.

14. There shall be a Secretary and, if in the opinion of the Council necessary, assistant Secretaries of the Society, who shall be remunerated by salary and shall not be Members of the Society.

15. The Secretary and assistant Secretaries shall be appointed by the Council, and may at any time be suspended from their duties or removed from office by the Council.

16. It shall be the duty of the Secretary (or, where delegation of one or more of the following functions may be necessary, of his deputy as authorized by the Council), subject to the direction of the Council, to conduct the ordinary correspondence of the Society ; to attend all meetings of the Society and of the Council and of all Committees, and to take minutes of the proceedings of such meetings ; to act as responsible Editor of the Society's *Journal*, and to superintend the publication of all such papers and publications as the Council may direct ; to undertake the charge of the house, furniture, library, pictures, papers and other effects belonging to the Society, and keep correct inventories thereof ; to direct the collection of the subscriptions and other amounts due to the Society, and to superintend the keeping of the accounts of the receipts and expenditure of the Funds of the Society, and the preparation and presentation to the Council of all accounts for inspection and approval ; to prepare under the direction of the Council an Annual Report on the state of the Society and its work during the preceding twelve months ; and generally to superintend and conduct, under the direction of the Council, the ordinary business of the Society, and discharge all duties usually appertaining to the office of Secretary

VI.—Finances.

17. There shall be an Accountant appointed by the Council, who shall hold office during the pleasure of the Council, and who shall

not be a Member of the Society ; he shall give security, to the satisfaction of the Council, for the faithful discharge of his duties, and shall perform, under the Secretary, such duties as the Council shall require.

18. The accounts shall be audited annually by a paid professional Auditor, to be appointed by the Council.

VII.—Committees.

19. Committees may be appointed by the Council in connection with any of the matters in which the Society is interested.

20. The Chairman of the Council shall be *ex-officio* a Member of all Committees.

21. No act, order, or resolution of any Committee shall bind the Society, unless it be done or made by the direction and authority of the Council, or be ratified by them.

22. It shall be competent for the Council to invite the co-operation of persons not Members of the Society, but who are eminent in Arts, Manufactures, and Commerce, and in the application of Science to their development, and to place such persons on any Committee which may be appointed.

VIII.—General Meetings.

(i) *Annual General Meetings.*

23. There shall in every year be held a General Meeting of the Society to be called the Annual General Meeting, which shall be held on a day being either the last Wednesday in June or the first or second Wednesday in July, and at such hour as the Council may determine.

24. Notice of every Annual General Meeting shall be exhibited in the Library of the Society, and shall be given in the June issue of the Society's *Journal* and by advertisement in *The Times* or one other daily London Morning Newspaper at least seven days and not more than twenty-one days previously to the holding thereof.

25. At the Annual General Meeting the Council shall submit a Report on the state of the Society and its proceedings during the past year, with a Statement certified by the Auditor of its Funds, and of the receipts and expenditure during the past financial year, and a copy of such Statement shall be published in the *Journal* of the Society at least seven days previously to the holding of such General Meeting.

26. The business of an Annual General Meeting shall be the election of President, Vice-Presidents, Treasurers and Ordinary Members of the Council as provided by the Bye-laws in that behalf, the reception and consideration of the Report of the Council and the Statement of Accounts submitted by them, and the disposal of any other business which may consistently with the Charter and Bye-Laws be considered and dealt with at such Meeting.

27. No other matter than the business above mentioned shall, except with the consent of the Council, be considered or discussed, or any Resolution be moved at an Annual General Meeting unless notice of the intention to bring forward such matter for consideration or to submit such Resolution shall have been given to the Secretary in

writing five days at least prior to the date fixed for the holding of the Meeting.

(ii) *Special General Meetings.*

28. All General Meetings of the Society other than the Annual General Meetings shall be termed Special General Meetings.

29. The Council may convene a Special General Meeting at any time for any purpose whenever they deem necessary, and shall do so upon a requisition signed by not less than twelve Members of the Society requiring the Council to call a Special General Meeting for any object connected with the Society, and specifying the general nature of the business to be transacted thereat.

30. Every requisition to the Council for calling a Special General Meeting shall be given in writing to the Secretary, and shall express the object for which such Meeting is to be called, and it shall be incumbent on the Council to cause a Meeting to be convened in pursuance thereof to be held not later than forty-two days from the receipt of such requisition.

31. Notice of every Special General Meeting specifying the object for which it is called and the business to be considered thereat, and if called in pursuance of a requisition of Members the names of the Members upon whose requisition it is so called, shall be exhibited in the Library of the Society, and also published in or distributed with the Society's *Journal* and by advertising in *The Times* or one other daily London Morning Newspaper, at least seven days previously to the holding of the Meeting.

32. No business shall be transacted at a Special General Meeting other than business of which notice has been given.

(iii) *Provisions common to all General Meetings.*

33. All General Meetings shall be held at the Hall of the Society, or at such other place in London as the Council shall appoint.

34. At all General Meetings the President of the Society shall preside if he shall be present, and if not then the Chairman of the Council if he shall be present, or, failing him, any other Vice-President chosen by the Council, or if no Vice-President be present then some other Member of the Council to be chosen by the Council, or if no Member of the Council be present then some other Member of the Society to be chosen by the Meeting shall preside.

35. None but Members and Officers of the Society or persons specially invited by the Council shall be present at any General Meeting of the Society.

36. No Member whose subscription is in arrear shall be entitled to be present and speak or vote at any General Meeting.

37. To constitute a General Meeting there must be at least ten Members present, and no business shall be transacted at any General Meeting when the number of Members present is less than ten.

38. In case within half an hour after the time appointed for holding a General Meeting ten Members are not present, the

Meeting, if convened on requisition of Members, shall be abandoned and shall not be held, but in any other case the Meeting shall stand adjourned to a day and hour and place to be fixed by a majority of the Members present, and if within half an hour after the time so fixed ten Members are not present then the Meeting fails and shall not be held.

39. Every General Meeting at which a quorum is present shall have power to adjourn its proceedings to a future date, but no business shall be transacted at any adjourned Meeting other than business left unfinished at the Meeting from which the adjournment took place. When a Meeting is adjourned for ten days or more notice of the adjourned Meeting shall be exhibited in the Library of the Society and if time permits, in the *Journal* of the Society, and in any case be advertised in *The Times* and in one other daily London morning newspaper.

40. At any General Meeting a resolution put, shall in the first instance, be decided by a show of hands, but immediately after the Chairman has announced the result of the voting on any question other than the adjournment of the Meeting or the Election of Officers, a poll of the Members of the Society on such question may be directed by the Chairman or be demanded in writing by any ten Members of the Society present at the Meeting, and such poll of the Members of the Society shall be taken in such manner as the Council shall determine. The Meeting at which a poll is demanded shall at the conclusion of the other business of the Meeting stand adjourned to such date as the Chairman may decide to receive the result of the poll, and the question shall be decided by the majority of the votes recorded on such poll.

IX.—Sessions and Meetings.

41. The Sessions of the Society shall commence on the first Wednesday in November, and shall end on the last Wednesday in June.

42. There shall be Ordinary Meetings of the Society on every Wednesday during the Session, unless otherwise directed by the Council. Such Meetings shall be conducted as prescribed by the Council from time to time.

Meetings of the Commonwealth Section, and all other meetings or series of meetings which the Council may from time to time arrange, shall be held at such times as may be arranged by the Council, or by the special Committees appointed by the Council to make arrangements for such Meetings.

43. At each of the Meetings of the Society at which papers are read, such papers shall deal with some one or more subject or subjects relating to inventions, improvements, discoveries, and other matters connected with Arts, Manufactures, or Commerce, or the encouragement thereof.

44. No decision on the merits of the papers so read shall be taken at the Meetings.

45. No business of any kind, other than the foregoing, shall be transacted at such meetings, and no question shall be discussed or motion be made at such Meetings relating to the direction and management of the Society.

46. No paper can be read at any such Meeting of the Society unless it shall have been approved of by the Council, but this approval shall not be taken as expressing an opinion upon the statements made or the arguments used in such paper.

X.—Members.

47. Candidates for admission as Members must have attained the age of 21 and be proposed and recommended by not less than three Members of the Society, or may be nominated by the Council, according to the Form following :—

“ We hereby propose and recommend ” [*Here state Christian name, rank, profession or business, and usual place of residence of the Candidate*] “ as a fit and proper person to become a Member of the Royal Society for the Encouragement of Arts, Manufactures and Commerce.” [*Here must follow the Signatures of three Members of the Society, one of whom must have personal knowledge of the Candidate ; or the nomination by the Council*].

The list of those thus proposed or nominated by the Council as above-mentioned shall be exhibited in the Rooms of the Society at least ten days before the day on which the names of the candidates are submitted for election. The election shall be by the Council. At the Meeting of the Council at which the names of the candidates are submitted for election if three-fourths of the Members of the Council voting shall vote in a candidate's favour he shall be declared elected a Member.

48. Every person so elected, on paying his first annual subscription and, if elected after the ninth day of July, 1952, his registration fee, shall thereby become a Member of the Society, and his name shall be inscribed in the register of Members.

49. Except as provided for in Bye-Laws 54 and 59 hereunder, no person shall be entitled to any of the privileges of a Member until he shall have paid his annual subscription, or such other sum as is specified by these Bye-Laws as a composition in lieu of annual subscriptions, and, if elected after the ninth day of July, 1952, his registration fee, and shall have signed the following Form of Assent :—

“I, the undersigned, having been elected a Member of the Royal Society for the Encouragement of Arts, Manufactures and Commerce, do hereby promise that I will submit and conform in all respects to, and be governed by, the terms and provisions of the Charter and the Bye-Laws made in pursuance thereof ; provided that whenever I shall signify in writing to the Secretary that I am desirous of ceasing to be a Member thereof, I shall be free from this obligation, after payment of any Annual Subscription or arrears which may be due from me at that period.”

50. The Annual Subscription of every Member shall, subject to the right of compounding hereafter referred to, be Four Guineas, payable for each year of Membership at its commencement, such commencement to be reckoned from the quarter-day nearest to the day of election or

admission. After the ninth day of July, 1952, each member shall on election pay a registration fee of Two Guineas.

51. Subject to the discretion of the Council any Member may commute or compound for all future payments of the Annual subscription by payment of a sum of not less than Forty Guineas.

52. Ladies may be elected Members.

53. The Council shall have power in each year to admit five persons eminent in Arts, Manufactures, or Commerce, or in the applications of abstract science to the same, as life Members of the Society, without the ordinary formalities of election, and without payment of any registration fee or subscription whatever.

54. The Council shall also have power at any time to nominate and appoint any foreigners and persons not residing in Great Britain or Ireland (who have been duly proposed and elected as members) to be Corresponding Members, without payment of registration fee or subscription, and foreigners or other persons so nominated and appointed shall enjoy all the privileges of ordinary membership.

55. Notice of their election shall be sent immediately to the newly-elected Members, together with the form of assent for signature.

56. Any Member desirous of withdrawing from the Society may do so by sending his Resignation in writing to the Secretary, but shall remain liable for the payment of all subscriptions and arrears which may be due from him up to that period.

57. If the annual subscription of any Member shall be in arrear for two years, the Secretary shall give notice thereof to the Member ; and if the said subscription shall continue in arrear at the expiration of one month after such notice, the Council having, through the Secretary, given the defaulting Member due notice of their intention, shall have power to strike the name of such Member off the register, and he shall thereupon cease to be a Member of the Society, but shall remain liable for any arrears of subscription which shall be due at the date of his so ceasing to be a Member.

58. Any person whose name shall have been struck off under the foregoing Bye-Law, may on payment of his arrears, be re-admitted by the Council.

59. The Council may in any special case where, in their opinion it is desirable to do so, reduce or remit the registration fee, annual subscription or life composition or the arrears of annual subscription of any Member.

60. Every Member whose subscription is not in arrear is entitled—
To be present at, and take part in, the proceedings of all the Ordinary and Special Section Meetings of the Society, and to introduce two visitors at such Meetings, subject to such rules as the Council may frame from time to time.

To be present and to vote at the Annual and all other General Meetings of the Society.

To receive the Society's *Journal*.

To the use of the Society's library, and to borrow books there from, under such regulations as the Council shall from time to time prescribe.

61. Any Member of the Society (other than an Honorary Corresponding Member) is authorised to use the style or title of "Fellow of the Royal Society of Arts" or to use after his name the initials "F.R.S.A." to indicate such membership, but not for business or advertising purposes, and whenever the terms "Member" or "Members" are used in these Bye-Laws they shall be taken as meaning "Fellow" or "Fellows."

62. If any Member of the Society has, in the opinion of the Council, been guilty of conduct not in accordance with the foregoing Bye-Law, or for any other reason, then the Council may refuse to renew his membership at the end of his current subscription; provided that such Member shall have the right of seeking reinstatement not less than twelve months after the removal of his name from the List of Members; and provided also that at least fifteen Members of Council present at the Meeting at which the suspension shall be resolved on consent thereto.

63. The Council may suspend any Member from using the Hall or Library or any of the rooms belonging to the Society, and from the exercise of all other rights and privileges of a Member, during such period as they may think fit, for any cause which shall, in their opinion, render such suspension necessary or expedient: Provided that at least fifteen Members of the Council must be present at the Meeting at which the suspension shall be resolved on, and ten at least of the Members present must consent thereto.

64. (i) If it shall appear to the Council, or shall be represented to the Council by a requisition in writing signed by three or more Members of the Society, that there is reason to believe that any Member has been guilty of conduct which, in the absence of satisfactory explanation, would render him unfit to remain a Member, the Council shall send to such Member a statement in writing of the conduct imputed to him, and shall afford him an opportunity of giving an explanation in writing or in person as he may elect.

(ii) If, on the consideration of such explanation, or in the absence of any explanation, the Council shall be of opinion that such Member ought to be expelled from the Society, they shall pass a resolution excluding him from the Society: Provided that at least fifteen Members of the Council must be present at the Meeting at which the suspension shall be resolved on, and ten at least of the Members present must consent thereto.

65. *Associates.* (i) Candidates for admission as Associates must have attained the age of 18 and must be under 21 years of age.

(ii) The procedure laid down in Bye-Law 47 shall apply to the proposal, recommendation, nomination and election of Associates by substitution of the words "an Associate" for the words "a Member" in line 3 of the form and in the last line of the Bye-Law.

(iii) Every person so elected, on paying his first Annual Subscrip-

tion, shall thereby become an Associate of the Society, and his name shall be inscribed in the register of Associates.

(iv) Bye-Law 49 shall apply, *mutatis mutandis*, to Associates save that no composition of the annual subscriptions of an Associate shall be permitted, and an Associate shall pay no registration fee on admission as an Associate.

(v) The Annual Subscription of every Associate shall be One Guinea at least, payable in advance, for each year of Associateship at its commencement, such commencement to be reckoned from the quarter day next preceding the day of election.

(vi) Bye-Laws 52, 55, 56, 57 and 58 shall apply, *mutatis mutandis*, to Associates.

(vii) In any special case where, in their opinion, it is desirable to do so, the Council may reduce or remit the Annual Subscription or the arrears of Annual Subscription of any Associate.

(viii) Every Associate whose subscription is not in arrear is entitled—
To be present at, and take part in, the proceedings of all the Ordinary and special Section Meetings of the Society and to introduce two visitors at such Meetings, subject to such rules as the Council may frame from time to time.

To receive the Society's *Journal*.

To use the Society's library, and to borrow books therefrom, under such regulations as the Council shall from time to time prescribe.

(ix) An Associate is not authorised to use any such style or title as "Associate of The Royal Society of Arts" nor to use after his name any initials indicating such Associateship.

(x) Bye-Laws 62, 63 and 64 shall apply to Associates by substitution of the word "Associate" for "Member" and of the words "an Associate" for "a Member", wherever they occur.

(xi) Associates between the ages of 21 and 25 inclusive may become Members on admission by the Council and on payment of the full subscription or life composition fee prescribed in Bye-Laws 50 and 51 but shall pay no registration fee on admission as Members; their names shall then be transferred from the register of Associates to the register of Members and they shall become entitled to all the privileges of Members and subject to the same conditions of Membership, without being required to be elected in accordance with Bye-Laws 47, 48 and 49.

(xii) On reaching the age of 25 Associates must either apply for Membership or must resign from the Society.

XI.—R.D.I.

66. The Council shall admit the Master for the time being of the Faculty of Royal Designers for Industry as a Member of the Society (if he is not already a Member) during the period of his Mastership without the ordinary formalities of election and without payment of any subscriptions.

XII.—Associated Institutions.

67. (i) The Council may admit into union with the Society, Learned Societies, Literary and Scientific Institutions, Artistic Societies or

Institutions, Libraries, Schools, Colleges, Government Departments and any Societies, Institutions, Associations or other bodies or organisations similar to any of the above (any of which is in this Bye-Law comprised in the expression "Learned Body") provided that the primary object of such Learned Body is the promotion of Arts, Manufactures or Commerce, the chartered objects of the Society.

(ii) A Learned Body so admitted into Union as aforesaid shall be subject to the provisions and entitled to the privileges following, that is to say —

- a. It shall not be a Member of the Society.
- b. It shall be entitled so long as its admission into Union remains in force to receive the Society's *Journal*.
- c. It shall be entitled to appoint one individual as its representative in relation to the Society and such individual so long as he remains such representative shall be entitled :
 - To be present at the reading of papers and delivery of lectures of the Society and to introduce two visitors on such occasions, subject to such rules as the Council may frame from time to time.
 - To the use of the Society's library, and to borrow books therefrom under such regulations as the Council may prescribe from time to time.
- d. The appointment of any such representative may at any time be revoked by the Learned Body appointing him and it may appoint any other individual in his place. Any such appointment or revocation shall be in writing served on the Society under the hand of one of the officers of the Learned Body duly authorised by it in that behalf and the appointment of such representative shall forthwith cease upon the admission into Union of the Learned Body whose representative he is ceasing to be in force.
- e. It shall pay an Annual Subscription to the Society of Three Guineas at least payable in advance for each year during which it remains in union with the Society from the commencement thereof such commencement to be reckoned from the quarter-day next preceding the day of such admission.
- f. Any Learned Body desirous of withdrawing from union with the Society may do so by sending its resignation in writing to the Secretary, whereupon such union shall forthwith cease.
- g. The Council shall have power at any time to put an end to the admission into Union of any Learned Body by passing a resolution to that effect whereupon such union shall forthwith cease.
- h. Any Learned Body the Union of which with the Society has ceased may be readmitted into Union with the Society by the Council on such terms and conditions as the Council in its absolute discretion may determine.

XIII.—Companies in Association.

68. (i) The Council may at their discretion admit into association with the Society Limited Liability Companies or other trading bodies, which are incorporated or registered in this country or abroad, each of which shall be known as a "Company in association."

(ii) A Company in association shall as long as its association remains in force be entitled :

a. To appoint official representatives in relation to the Society in accordance with (iii) b. below. Each representative may, subject to such rules as the Council may frame from time to time :

(i) Attend lectures of the Society and introduce one visitor.

(ii) Use the Society's Library and Reading Room.

b. To receive one copy of the Society's *Journal* in respect of each appointed representative.

(iii) A Company in association shall be subject to the following conditions, viz. :

a. It shall be required to furnish a Form of Undertaking to the effect that it will conform to the terms and provisions of the Society's Charter and Bye-Laws made in pursuance thereof and that it will endeavour by all reasonable means in its power to uphold the aims and objects of the Society.

b. It shall pay an Annual Subscription of not less than twenty guineas entitling it to appoint two representatives, and for each ten guineas beyond that sum paid by way of Annual Subscription an additional representative may be appointed ; but the total number of representatives shall not exceed five. The Annual Subscription shall be payable in advance for each year of association with the Society from the commencement thereof, such commencement to be reckoned from the quarter-day nearest to the date of such admission.

(iv) Any Company in association desirous of withdrawing from association with the Society may do so by sending its resignation in writing to the Secretary, whereupon such association shall cease at the expiration of the current subscription.

(v) The Council shall have power at any time to put an end to the association of any Company in association by passing a resolution to that effect whereupon such association shall forthwith cease.

XIV.—Albert Medal.

69. This Medal, instituted in 1863 as a memorial of H.R.H. the Prince Consort, for eighteen years the President of the Society, shall be awarded by the President and Council for "distinguished merit in promoting Arts, Manufactures and Commerce."

70. The Medal shall not be awarded oftener than once a year, and may be awarded to persons of any nationality.

71. No resolution of the Council relating to the award shall be passed unless twelve Members at least be present, and nine Members at least approve thereof.

72. The presentation of the Medal shall be made at a General Meeting of the Society, or in such manner as the President may direct.

73. A notice shall be given in the February and March issues of the *Journal* that at the first Council Meeting in May the Council will make a recommendation regarding the award of the Albert Medal for the consideration of the President. The first notice shall describe the object of the Medal, give names of persons who have received it already, and ask Members of the Society to send in the names of such persons as they may think suitable for the consideration of the Council.

74. The information thus collected shall be sent round, marked private, to each Member of Council.

XV.—Election of Officers.

75. Members of the Society may nominate any duly qualified Member to fill the office of President, Vice-President, Treasurer or Ordinary Member of the Council. Each nomination, which must be accompanied by the written consent of the person so nominated to accept office if elected unless he is already serving in an office, shall be signed by not fewer than six Members of the Society and shall reach the Secretary not later than the 30th day of April in each year. All such nominations shall be laid before the Council. Notice shall be given each year in the issues of the *Journal* dated for January and February that at the first Council Meeting after the 1st day of May the Council will give consideration to the filling of the said offices.

76. At the first Council Meeting after the 1st day of May and in any event not later than the 31st day of May in each year the Council, having considered nominations made by Members of the Society under Bye-Law No. 75, shall nominate duly qualified persons for election as President, Vice-Presidents, Treasurers, and Ordinary Members of the Council as follows, viz :—

(i) One Member of the Society as President for the ensuing year.
(ii) In the office of Vice-President for the ensuing year, subject to their being Members of the Society :

- a. the Chairman of Council for the time being ;
- b. the person designated by the Council to serve as Chairman of the next Council ;
- c. all past Chairmen of Council subject to a maximum of eight ;
- d. not more than two Members of the Society nominated by the President at his personal discretion ;
- e. the Master for the ensuing year of the Faculty of Royal Designers for Industry ; and
- f. such Honorary Corresponding Members as the Council may from time to time see fit to nominate in recognition of outstanding work.

If the number of past Chairmen of Council exceeds eight or if the number of names as prescribed above exceeds twelve, the names of the past Chairman or Chairmen of Council with the fewest attendances at

meetings of the Council since the last Annual General Meeting shall be excluded so that neither figure is exceeded. In the event of a tie these names shall be determined by lot. For the purpose of this Bye-Law absence from any of its meetings with leave, which may be granted by the Council in exceptional circumstances on application at the time by the Member concerned, shall count as an attendance.

- (iii) Two members of the Society as Treasurers (Honorary) for the ensuing year, provided that neither shall have served in this office continuously for the five previously consecutive years.
- (iv) Four Members of the Society as Ordinary Members of the Council to replace the two senior Ordinary Members of the Council and the two Ordinary Members who have attended fewest meetings of the Council since the last Annual General Meeting, who shall retire and shall not be eligible for re-election for at least one year. The remaining twenty Ordinary Members of the Council shall continue to serve for the ensuing year.

For the purposes of this Bye-Law :

- a. If it is necessary to decide which Ordinary Members of the Council having exactly the same seniority shall retire, those with the fewest attendances at meetings of the Council during the whole of their service on the Council as Ordinary Members of the Council shall retire.
- b. Those to retire on grounds of fewest attendances shall be determined by lot in the event of a tie.
- c. Absence from any of its meetings with leave, which may be granted by the Council in exceptional circumstances on application at the time by the Member concerned, shall count as an attendance.
- d. If an Ordinary Member of the Council is due to retire on grounds of both seniority and fewest attendances he shall be deemed to retire on grounds of seniority.

77. A list of all persons duly nominated for election as President, Vice-Presidents, Treasurers and Ordinary Members of the Council shall be exhibited in the Library of the Society from the 1st day of June preceding and until the Annual General Meeting, and shall be published in the issue of the *Journal* dated for June. The list shall indicate which persons are nominated by the Council and which by Members (whose names shall be stated) and which by both the Council and Members (whose names shall also be stated). Such list shall form the balloting list at the Annual General Meeting.

78. In the event of any person being nominated as Vice-President under Bye-Law 75, the number of Vice-Presidents to be elected shall not exceed the number nominated by the Council under Bye-Law 76.

79. If the number of persons nominated to fill the respective offices shall not exceed the number to be elected to such offices the persons so nominated shall at the Annual General Meeting be declared elected to fill such offices for the ensuing year, but if the number so nominated shall exceed the number to be elected to the respective

offices a ballot shall take place at the Annual General Meeting in the following manner :—

The Council shall cause to be provided for the use of Members voting thereat, a sufficient number of copies of the balloting list ; and no other balloting-lists than those provided shall be received.

Every Member intending to vote at the election may vote for any number of candidates not exceeding the number of vacancies by placing a cross against their names, and shall hand in his balloting list to the Chairman.

On the receipt of such list from the voter, if the voter's qualification to vote be not objected to, or if objected to and the Chairman shall be satisfied that the voter is duly qualified, the Chairman shall deposit such list in the balloting-box. The decision of the Chairman in such matter shall be final.

Two Scrutineers, not being Members of the Council, shall be nominated by the Chairman. They shall examine and cast up the votes, and report the names of the persons so elected and the number of votes to the Chairman, who shall thereupon declare the same to the Meeting.

Any balloting list so deposited which contains votes for more candidates than there are vacancies in any office shall be absolutely null and void, and shall be rejected by the scrutineers.

If the votes in any case be equal, the Chairman shall give the casting vote.

XVI.—The Common Seal.

80. The Council shall provide a Common Seal of the Society and make rules for the safe custody and use thereof, and it shall never be used except by the authority of the Council previously given and in the presence of two Members of the Council at least, who shall sign every Instrument to which the Seal is affixed, and every such Instrument shall be countersigned by the Secretary or some other person appointed by the Council.

XVII.—Alteration of Bye-Laws.

81. Bye-Laws may be altered, varied or revoked, and new Bye-Laws made, at General Meetings only.

82. No motion to alter, vary, or revoke any existing Bye-Law or make any new Bye-Law, shall be entertained by a General Meeting, except the same shall be proposed by the Council, unless notice in writing, signed by twelve Members, containing the substance of the proposed motion for altering, varying, revoking, or making any Bye-Laws shall have been given the Secretary ten days at least previous to the holding of such General Meeting.

GEORGE EDWARD MERCER

Secretary.

Society's House,

Adelphi, London, W.C.2.

*Bye-Laws amended and approved by General Meeting held 12th June, 1888.
Further alterations made at the following General Meetings*

*29th June, 1910.
24th June, 1914.
30th June, 1920.
6th July, 1927.
28th June, 1933.
27th June, 1934.
29th June, 1938.
28th June, 1939.
30th June, 1943.
26th June, 1946.
1st November, 1950.
9th July, 1952.
30th June, 1954.
26th June, 1957.
1st July, 1959.
28th June, 1961.
4th July, 1962.*

THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

REPORT OF THE PHYSICS DEPARTMENT

FOR THE YEAR 1955

CHICAGO, ILLINOIS

1956

CHICAGO, ILLINOIS

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CHICAGO, ILLINOIS

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CHICAGO, ILLINOIS

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