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ADVERTISEMENT.

The Committee appointed by the Royal Society to direct the publication of the Philosophical Transactions take this opportunity to acquaint the public that it fully appears, as well from the Council-books and Journals of the Society as from repeated declarations which have been made in several former Transactions, that the printing of them was always, from time to time, the single act of the respective Secretaries till the Forty-seventh Volume; the Society, as a Body, never interesting themselves any further in their publication than by occasionally recommending the revival of them to some of their Secretaries, when, from the particular circumstances of their affairs, the Transactions had happened for any length of time to be intermitted. And this seems principally to have been done with a view to satisfy the public that their usual meetings were then continued, for the improvement of knowledge and benefit of mankind: the great ends of their first institution by the Royal Charters, and which they have ever since steadily pursued.

But the Society being of late years greatly enlarged, and their communications more numerous, it was thought advisable that a Committee of their members should be appointed to reconsider the papers read before them, and select out of them such as they should judge most proper for publication in the future Transactions; which was accordingly done upon the 26th of March, 1752. And the grounds of their choice are, and will continue to be, the importance and singularity of the subjects, or the advantageous manner of treating them; without pretending to answer for the certainty of the facts, or propriety of the reasonings contained in the several papers so published, which must still rest on the credit or judgment of their respective authors.

It is likewise necessary on this occasion to remark, that it is an established rule of the Society, to which they will always adhere, never to give their opinion, as a Body,
upon any subject, either of Nature or Art, that comes before them. And therefore the
thanks, which are frequently proposed from the Chair, to be given to the authors of
such papers as are read at their accustomed meetings, or to the persons through whose
hands they received them, are to be considered in no other light than as a matter of
civility, in return for the respect shown to the Society by those communications. The
like also is to be said with regard to the several projects, inventions, and curiosities of
various kinds, which are often exhibited to the Society; the authors whereof, or those
who exhibit them, frequently take the liberty to report, and even to certify in the
public newspapers, that they have met with the highest applause and approbation.
And therefore it is hoped that no regard will hereafter be paid to such reports and
public notices; which in some instances have been too lightly credited, to the
dishonour of the Society.
1900.

List of Institutions entitled to receive the Philosophical Transactions or Proceedings of the Royal Society.

Institutions marked A are entitled to receive Philosophical Transactions, Series A, and Proceedings.
" " B " " " " Series B, and Proceedings.
" " AB " " " " Series A and B, and Proceedings.
" " P " " Proceedings only.

**America (Central).**
- Mexico.
  - p. Sociedad Científica "Antonio Alzate."

**America (North).** (See United States and Canada.)

**America (South).**
- Buenos Ayres.
  - AB. Museo Nacional.
- Caracas.
  - B. University Library
- Cordova.
  - AB. Academia Nacional de Ciencias.
- Demerara.
  - P. Royal Agricultural and Commercial Society, British Guiana.
- La Plata.
  - B. Museo de La Plata.
  - p. Observatorio.

**Australia.**
- Adelaide.
  - P. Royal Society of South Australia.
- Brisbane.
  - P. Royal Society of Queensland.
- Melbourne.
  - P. Observatory.
  - P. Royal Society of Victoria.
  - AB. University Library.
- Sydney.
  - P. Australian Museum.
  - P. Geological Survey.
  - P. Linnean Society of New South Wales.
  - AB. Royal Society of New South Wales.
  - AB. University Library.

**Austria.**
- Agram.
  - P. Jugoslovenska Akademija Znanosti i Umjetnosti.
  - P. Societas Historico-Naturalis Croatiae.

**Austria (continued).**
- Brünn.
  - AB. Naturforschender Verein.
- Graz.
  - AB. Naturwissenschaftlicher Verein für Steiermark.
- Innsbruck.
  - AB. Das Ferdinandum.
  - P. Naturwissenschaftlich - Medicinischer Verein.
- Prague.
  - AB. Königliche Böhmische Gesellschaft der Wissenschaften.
- Trieste.
  - B. Museo di Storia Naturale.
  - P. Società Adriatica di Scienze Naturali.
- Vienna.
  - P. Anthropologische Gesellschaft.
  - AB. Kaiserliche Akademie der Wissenschaften.
  - AB. K.K. Geologische Reichsanstalt.
  - B. K.K. Zoologisch-Botanische Gesellschaft.
  - P. Österreichische Gesellschaft für Meteorologie.
  - A. Von Kuffner'sche Sternwarte.

**Belgium.**
- Brussels.
  - B. Académie Royale de Médecine.
  - AB. Académie Royale des Sciences.
  - B. Musée Royal d'Histoire Naturelle de Belgique.
  - P. Observatoire Royal.
  - P. Société Belge de Géologie, de Paléontologie, et d'Hydrologie.
  - P. Société Malacologique de Belgique.
  - Ghent.
  - AB. Université.
Belgium (continued).

Liége.
- Société des Sciences.
- Société Géologique de Belgique.

Louvain.
- Laboratoire de Microscopie et de Biologie Cellulaire.
- Université.

Canada.

Fredericton, N.B.
- University of New Brunswick.

Halifax, N.S.
- Nova Scotian Institute of Science.

Hamilton.
- Hamilton Association.

Montreal.
- McGill University.
- Natural History Society.

Ottawa.
- Geological Survey of Canada.
- Royal Society of Canada.

St. John, N.B.
- Natural History Society.

Toronto.
- Astronomical and Physical Society.
- Canadian Institute.
- University.

Windsor, N.S.
- King’s College Library.

Cape of Good Hope.

- Observatory.
- South African Library.

Ceylon.

Colombo.
- Museum.

China.

Shanghai.
- China Branch of the Royal Asiatic Society.

Denmark.

Copenhagen.
- Kongelige Danske Videnskabernes Selskab.

Egypt.

Alexandria.
- Bibliothèque Municipale.

England and Wales (continued).

Bolton.
- Public Library.

Bristol.
- Merchant Venturers’ School.
- University College.

Cambridge.
- Philosophical Society.
- Union Society.

Cardiff.
- University College.

Cooper’s Hill.
- Royal Indian Engineering College.

Dudley.
- Dudley and Midland Geological and Scientific Society.

Essex.
- Essex Field Club.

Falmouth.
- Royal Cornwall Polytechnic Society.

Greenwich.
- Royal Observatory.
- Royal Gardens.

Leeds.
- Philosophical Society.
- Yorkshire College.

Liverpool.
- Free Public Library.
- Literary and Philosophical Society.

London.
- Admiralty.
- Anthropological Institute.
- Board of Trade (Electrical Standards Laboratory).
- British Museum (Nat. Hist.).
- Chemical Society.
- City and Guilds of London Institute.
- “Electrician,” Editor of the.
- Entomological Society.
- Geological Society.
- Geological Survey of Great Britain.
- Geologists’ Association.
- Guildhall Library.
- Institution of Civil Engineers.
- Institution of Electrical Engineers.
- Institution of Mechanical Engineers.
- Institution of Naval Architects.
- Iron and Steel Institute.
- King’s College.
- Linnean Society.
- London Institution.
England and Wales (continued).

London (continued).

A. Mathematical Society.
P. Meteorological Office.
P. Odontological Society.
P. Pharmaceutical Society.
P. Physical Society.
P. Quekett Microscopical Club.
P. Royal Agricultural Society.
B. Royal College of Physicians.
B. Royal College of Surgeons.
P. Royal Engineers (for Libraries abroad, six copies).
A.B. Royal Engineers. Head Quarters Library.
P. Royal Geographical Society.
P. Royal Horticultural Society.
P. Royal Institute of British Architects.
A.B. Royal Institution of Great Britain.
B. Royal Medical and Chirurgical Society.
P. Royal Meteorological Society.
P. Royal Microscopical Society.
P. Royal Statistical Society.
A.B. Royal United Service Institution.
A.B. Society of Arts.
P. Society of Biblical Archaeology.
P. Society of Chemical Industry (London Section).
P. Standard Weights and Measures Department.
A.B. The Queen's Library.
A.B. The War Office.
A.B. University College.
P. Victoria Institute.
B. Zoological Society.

Manchester.

A.B. Free Library.
A.B. Literary and Philosophical Society.
P. Geological Society.
A.B. Owens College.

Netley.

p. Royal Victoria Hospital.

Newcastle.

A.B. Free Library.
P. North of England Institute of Mining and Mechanical Engineers.
P. Society of Chemical Industry (Newcastle Section).

Norwich.

p. Norfolk and Norwich Literary Institution.

Nottingham.

A.B. Free Public Library.

England and Wales (continued).

Oxford.

A.B. Radcliffe Library.
A. Radcliffe Observatory.

Penzance.


Plymouth.

A. Marine Biological Association.
P. Plymouth Institution.

Richmond.

A. "Kew" Observatory.

Salisford.

p. Royal Museum and Library.

Stonyhurst.

p. The College.

Swansea.

A.B. Royal Institution.

Woolwich.

A.B. Royal Artillery Library.

Finland.

Helsingfors.

p. Societas pro Fauna et Flora Fennica.
A.B. Société des Sciences.

France.

Bordeaux.

p. Faculté des Sciences.
p. Société de Médecine et de Chirurgie.

Caen.

p. Société Linnéenne de Normandie.

Cherbourg.


Dijon.


Lille.

p. Faculté des Sciences.

Lyons.

A.B. Académie des Sciences, Belles-Lettres et Arts.
A.B. Université.

Marseilles.

A.B. Faculté des Sciences.

Montpellier.

A.B. Académie des Sciences et Lettres.
B. Faculté de Médecine.

Nantes.


Paris.

A.B. Académie des Sciences de l'Institut.
France (continued).
Paris (continued).
- Bureau International des Poids et Mesures.
- Commission des Annales des Ponts et Chaussées.
- Conservatoire des Arts et Métiers.
- Cosmos (M. L'Abbé Valette).
- Dépôt de la Marine.
- École des Mines.
- École Normale Supérieure.
- École Polytechnique.
- Faculté des Sciences de la Sorbonne.
- Institut Pasteur.
- Jardin des Plantes.
- L'Électricien.
- L'Observatoire.
- Revue Scientifique (Mons. H. de Vasseny).
- Société de Biologie.
- Société d'Encouragement pour l'Industrie Nationale.
- Société de Géographie.
- Société de Physique.
- Société Entomologique.
- Société Géologique.
- Société Mathématique.
- Société Météorologique de France.
Toulouse.
- Académie des Sciences.
- Faculté des Sciences.

Germany (continued).
Emden.
- Naturforschende Gesellschaft.
Erlangen.
- Physikalisch-Medicinische Sociätät.
Frankfurt-am-Main.
- Senckenbergische Naturforschende Gesellschaft.
- Zoologische Gesellschaft.
Frankfurt-am-Oder.
- Naturwissenschaftlicher Verein.
Freiburg-im-Breisgau.
- Universität.
Giessen.
- Grossherzogliche Universität.
Görlitz.
- Naturforschende Gesellschaft.
Göttingen.
- Königliche Gesellschaft der Wissenschaften.
Halle.
- Kaiserliche Leopoldino - Carolinische Deutsche Akademie der Naturforscher.
- Naturwissenschaftlicher Verein für Sachsen und Thüringen.
Hamburg.
- Naturhistorisches Museum.
- Naturwissenschaftlicher Verein.
Heidelberg.
- Naturhistorisch-Medizinischer Verein.
- Universität.
Jena.
- Medicinisch-Naturwissenschaftliche Gesellschaft.
Karlsruhe.
- Grossherzogliche Sternwarte.
- Technische Hochschule.
Kiel.
- Naturwissenschaftlicher Verein für Schleswig-Holstein.
- Astronomische Nachrichten.
- Universität.
Königsberg.
- Königliche Physikalisch - Ökonomische Gesellschaft.
Leipzig.
- Annalen der Physik und Chemie.
- Königliche Sächsische Gesellschaft der Wissenschaften.
Magdeburg.
- Naturwissenschaftlicher Verein.
Marburg.
- Universität.
Germany (continued).

Munich.

Ab. Königliche Bayerische Akademie der Wissenschaften.


Münster.

Ab. Königliche Theologische und Philosophische Akademie.

Potsdam.

a. Astrophysikalisches Observatorium.

Rostock.

Ab. Universität.

Strasburg.

Ab. Universität.

Tübingen.

Ab. Universität.

Würzburg.

Ab. Physikalisch-Medizinische Gesellschaft.

Greece.

Athens.

A. National Observatory.

Holland. (See Netherlands.)

Hungary.

Buda-pest.


Hermannstadt.

p. Siebenbürgischer Verein für die Naturwissenschaften.

Klausenburg.


Schmeltz.


India.

Bombay.

Ab. Elphinstone College.

p. Royal Asiatic Society (Bombay Branch).

Calcutta.

Ab. Asiatic Society of Bengal.


p. Great Trigonometrical Survey of India.

Ab. Indian Museum.

p. The Meteorological Reporter to the Government of India.

Madras.

b. Central Museum.

a. Observatory.

Roorkee.

p. Roorkee College.

Ireland.

Armagh.

a. Observatory.

Belfast.

Ab. Queen's College.

Cork.

p. Philosophical Society.

Ab. Queen's College.

Dublin.

a. Observatory.


b. Royal College of Surgeons in Ireland.

Ab. Royal Dublin Society.

Ab. Royal Irish Academy.

Galway.

Ab. Queen's College.

Italy.

Acireale.


Bologna.

Ab. Accademia delle Scienze dell' Istituto.

Catania.

Ab. Accademia Gioenia di Scienze Naturali.

Florence.


Ab. Museo Botanico.

p. Reale Istituto di Studi Superiori.

Genoa.

p. Società Ligustica di Scienze Naturali e Geografiche.

Milan.


Ab. Società Italiana di Scienze Naturali.

Modena.

p. Le Stazioni Sperimentali Agrarie Italiane.

Naples.

p. Società di Naturalisti.

Ab. Società Reale, Accademia delle Scienze.

b. Stazione Zoologica (Dr. Dohn).

Padua.


Palermo.

a. Circolo Matematico.

Ab. Consiglio di Perfezionamento (Società di Scienze Naturali ed Economiche).

A. Reale Osservatorio.

Pisa.


p. Società Toscana di Scienze Naturali.

Rome.


Italy (continued).
Rome (continued).
A. Reale Ufficio Centrale di Meteorologia e di 
  Geodinamica, Collegio Romano.
B. Reale Accademia dei Lincei.
P. R. Comitato Geologico d' Italia.
A. Specola Vaticana.
B. Società Italiana delle Scienze.
Siena.
  P. Reale Accademia dei Fisiocriti.
Turin.
  P. Laboratorio di Fisiologia.
B. Reale Accademia delle Scienze.
Venice.
  P. Ateneo Veneto.
B. Reale Istituto Veneto di Scienze, Lettere 
  ed Arti.
Japan.
Tokio.
B. Imperial University.
P. Asiatic Society of Japan.
Java.
Buitenzorg.
  P. Jardin Botanique.
Luxembourg.
Luxembourg.
  P. Société des Sciences Naturelles.
Malta.
P. Public Library.
Mauritius.
P. Royal Society of Arts and Sciences.
Netherlands.
Amsterdam.
B. Koninklijke Academie van Wetenschappen.
P. K. Zoologisch Genootschap 'Natura Artis 
  Magistra.'
Delft.
  P. École Polytechnique.
Haarlem.
B. Hollandsche Maatschappij der Wetens 
  schappen.
P. Musée Teyler.
Leyden.
B. University.
Rotterdam.
B. Bataafs Genootschap der Proefonder 
  vindelijke Wijsbegeerte.
Utrecht.
B. Provinciaal Genootschap van Kunsten en 
  Wetenschappen.
New Zealand.
Wellington.
B. New Zealand Institute.
Norway.
Bergen.
B. Bergenske Museum.
Christiania.
B. Kongelige Norske Frederiks Universitet.
Tromsøe.
P. Museum.
Trondhjem.
B. Kongelige Norske Videnskabers Selskab.
Portugal.
Coimbra.
B. Universidade.
Lisbon.
B. Academia Real das Sciencias.
P. Secção dos Trabalhos Geologicos de Portugal.
Oporto.
P. Annaes de Sciencias Naturaes.
Russia.
Dorpat.
B. Université.
Irkutsk.
P. Société Impériale Russe de Géographie 
  (Section de la Sibérie Oriental).
Kazan.
B. Imperatorsky Kazansky Universitet.
P. Société Physico-Mathématique.
Kharkoff.
P. Section Médicale de la Société des Sciences 
  Expérimentales, Université de Kharkoff.
Kief.
P. Société des Naturalistes.
Kronstadt.
P. Marine Observatory.
Moscow.
B. Le Musée Public.
B. Société Impériale des Naturalistes.
Odessa.
P. Société des Naturalistes de la Nouvelle- 
  Russie.
Pulkowa.
A. Nikolai Haupt-Sternwarte.
St. Petersburg.
B. Académie Impériale des Sciences.
B. Archives des Sciences Biologiques.
B. Comité Géologique.
B. Ministère de la Marine.
A. Observatoire Physique Central.
Scotland.
Aberdeen.
B. University.
Edinburgh.
P. Geological Society.
P. Royal College of Physicians (Research 
  Laboratory).
Scotland (continued).
Edinburgh (continued).
  p. Royal Medical Society.
  a. Royal Observatory.
  p. Royal Physical Society.
  a. Royal Society.
Glasgow.
  p. Natural History Society.
  p. Philosophical Society.
Servia.
Belgrade.
  p. Académie Royale de Serbie.
Sicily.  (See Italy.)
Spain.
Cadiz.
  a. Instituto y Observatorio de Marina de San Fernando.
Madrid.
  a. Real Academia de Ciencias.
Sweden.
Gottenburg.
Lund.
  a. Universitet.
Stockholm.
  a. Sveriges Geologiska Undersökning.
Upsala.
  a. Universitet.
Switzerland.
Basel.
Bern.
Geneva.
  a. Société de Physique et d’Histoire Naturelle.
  a. Institut National Genevois.
Lausanne.
Neuchâtel.
Zürich.
  a. Das Schweizerische Polytechnikum.
  p. Sternwarte.
Tasmania.
Hobart.
  p. Royal Society of Tasmania.
United States.
Albany.
  a. New York State Library.
Annapolis.
  a. Naval Academy.
Austin.
  p. Texas Academy of Sciences.
Baltimore.
  a. Johns Hopkins University.
Berkeley.
  p. University of California.
Boston.
  b. Boston Society of Natural History.
  a. Technological Institute.
Brooklyn.
  a. Brooklyn Library.
Cambridge.
  a. Harvard University.
  b. Museum of Comparative Zoology.
Chapel Hill (N.C.).
Charleston.
  p. Elliott Society of Science and Art of South Carolina.
Chicago.
  a. Academy of Sciences.
Davenport (Iowa).
  p. Academy of Natural Sciences.
Granville (Ohio).
  p. Journal of Comparative Neurology.
Ithaca (N.Y.).
Lawrence.
  p. Kansas University.
Madison.
Mount Hamilton (California).
  a. Lick Observatory.
New Haven (Conn.).
  a. Connecticut Academy of Arts and Sciences.
New York.
  a. Columbia College Library.
United States (continued).

Philadelphia.

A. Academy of Natural Sciences.
B. American Philosophical Society.

c. Franklin Institute.

d. Wagner Free Institute of Science.

Rochester (N.Y.).

e. Academy of Science.

St. Louis.

f. Academy of Science.

Salem (Mass.).

g. American Association for the Advancement of Science.

A. Essex Institute.

San Francisco.

A. California Academy of Sciences.

United States (continued).

Washington.

A. Patent Office.
B. Smithsonian Institution.

B. United States Coast Survey.
B. United States Commission of Fish and Fisheries.

A. United States Geological Survey.
B. United States Naval Observatory.

c. United States Department of Agriculture.
A. United States Department of Agriculture (Weather Bureau).

West Point (N.Y.).

A. United States Military Academy.
ADJUDICATION of the MEDALS of the ROYAL SOCIETY for the year 1900, by the PRESIDENT and COUNCIL.

The COPLEYS MEDAL to Professor Marcellin Berthelot, For. Mem.R.S., for his brilliant services to Chemical Science.

The RUMFORD MEDAL to Professor Antoine Henri Becquerel, for his discoveries in Radiation proceeding from Uranium.

A ROYAL MEDAL to Major Percy Alexander MacMahon, F.R.S., for the number and range of his contributions to Mathematical Science.

A ROYAL MEDAL to Professor Alfred Newton, F.R.S., for his eminent contributions to the science of Ornithology and the Geographical Distribution of Animals.

The DAVY MEDAL to Professor Guglielmo Körner, for his brilliant investigations on the Position Theory of the Aromatic Compounds.

The DARWIN MEDAL to Professor Ernst Haeckel, for his long-continued and highly-important work in Zoology, all of which has been inspired by the spirit of Darwinism.

The BAKERIAN LECTURE for the year 1900, "On the Specific Heat of Metals and the Relation of Specific Heat to Atomic Weight," was delivered by Professor W. A. Tildén, F.R.S., on March 8, 1900.

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Diffusion, Influence of perforated Septa on.
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Translocation in Plants.
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Transpiration in Plants.
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