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Plates 15 to 28.—Professor J. A. Ewing and Mr. W. Rosenhain on the Crystalline Structure of Metals.—Bakerian Lecture.
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.
**List of Institutions entitled to receive the Philosophical Transactions or Proceedings of the Royal Society.**


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

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

**America (South).**
- Buenos Ayres.
- Caracas.
  - AB. Academia Nacional de Ciencias.
- Cordova.
  - AB. Academia Nacional de Ciencias.
- Demerara.
- La Plata.
  - b. Museo de La Plata.
  - p. Observatorio.

**Australia.**
- Adelaide.
  - p. Royal Society of South Australia.
- Brisbane.
- Melbourne.
  - p. Observatory.
  - AB. University Library.
- Sydney.
  - p. Linnean Society of New South Wales.
  - AB. Royal Society of New South Wales.
  - AB. University Library.

**Austria.**
- Agram.

**Austria (continued).**
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- Graz.
  - AB. Naturwissenschaftlicher Verein für Steiermark.
- Innsbruck.
  - AB. Das Ferdinandeum.
- Prague.
  - AB. Königliche Böhmische Gesellschaft der Wissenschaften.
- Trieste.
  - b. Museo di Storia Naturale.
- Vienna.
  - AB. Kaiserliche Akademie der Wissenschaften.
  - AB. K.K. Geologische Reichsanstalt.
  - 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.
- Ghent.
  - AB. Université.
Belgium (continued).
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    AB. Société des Sciences.
    p. Société Géologique de Belgique.
  Louvain.
    b. Laboratoire de Microscopie et de Biologie Cellulaire.
    AB. Université.

Canada.
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  Halifax, N.S.
  Hamilton.
  Montreal.
    AB. McGill University.
    p. Natural History Society.
  Ottawa.
    AB. Geological Survey of Canada.
    AB. Royal Society of Canada.
  St. John, N.B.
    p. Natural History Society.
  Toronto.
    p. Canadian Institute.
    AB. University.
  Windsor, N.S.
    p. King's College Library.

Cape of Good Hope.
  A. Observatory.
  AB. South African Library.

Ceylon.
  Colombo.
    a. Museum.

China.
  Shanghai.

Denmark.
  Copenhagen.
    AB. Kongelige Danske Videnskabernes Selskab.

Egypt.
  Alexandria.
    AB. Bibliothèque Municipale.

England and Wales (continued).
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    p. Public Library.
  Bristol.
    AB. University College.
  Cambridge.
    AB. Philosophical Society.
    p. Union Society.
  Cooper's Hill.
    AB. Royal Indian Engineering College.
  Dudley.
  Essex.
    p. Essex Field Club.
  Falmouth.
    p. Royal Cornwall Polytechnic Society.
  Greenwich.
    A. Royal Observatory.
    B. Royal Gardens.
  Leeds.
    p. Philosophical Society.
    AB. Yorkshire College.
  Liverpool.
    AB. Free Public Library.
    p. Literary and Philosophical Society.
    A. Observatory.
    AB. University College.
  London.
    AB. Admiralty.
    AB. British Museum (Nat. Hist.).
    AB. Chemical Society.
    A. City and Guilds of London Institute.
    B. Entomological Society.
    AB. Geological Society.
    AB. Geological Survey of Great Britain.
    AB. Guildhall Library.
    A. Institution of Civil Engineers.
    p. Institution of Electrical Engineers.
    A. Institution of Mechanical Engineers.
    A. Institution of Naval Architects.
    AB. King's College.
    B. Linnean Society.
    AB. London Institution.
    A. Mathematical Society.
    p. Meteorological Office.
    p. Odontological Society.
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London (continued).
- p. Physical Society.
  b. Royal College of Physicians.
- p. Royal College of Surgeons.
- p. Royal Engineers (for Libraries abroad, six copies).
  aB. Royal Engineers. Head Quarters Library.
- p. Royal Institute of British Architects.
  aB. Royal Institution of Great Britain.
  b. Royal Medical and Chirurgical Society.
  aB. Royal United Service Institution.
  aB. Society of Arts.
- p. Standard Weights and Measures Department.
  aB. The Queen’s Library.
  aB. The War Office.
  aB. University College.
  aB. Victoria Institute.
  aB. Zoological Society.

Manchester.
  aB. Free Library.
  aB. Literary and Philosophical Society.
  aB. Owens College.

Netley.
- p. Royal Victoria Hospital.

Newcastle.
  aB. Free Library.
- p. Society of Chemical Industry (Newcastle Section).

Norwich.
- p. Norfolk and Norwich Literary Institution.

Nottingham.
  aB. Free Public Library.

Oxford.
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  a. Radcliffe Observatory.

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Penzance.

Plymouth.

Richmond.

Salford.
- p. Royal Museum and Library.

Stonyhurst.
- p. The College.

Swansea.
  aB. Royal Institution.
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Finland.

Helsingfors.
- p. Societas pro Fauna et Flora Fennica.
  aB. Société des Sciences.

France.

Bordeaux.

Caen.

Cherbourg.

Dijon.

Lille.

Lyons.
  aB. Académie des Sciences, Belles-Lettres et Arts.
  aB. Université.

Marseilles.
  aB. Faculté des Sciences.

Montpellier.
  aB. Académie des Sciences et Lettres.
  a. Faculté de Médecine.

Nantes.

Paris.
  aB. Académie des Sciences de l’Institut.
- p. Commission des Annales des Ponts et Chaussées.
France (continued).

Paris (continued).
P. Cosmos (M. L'Abbé Valette).
AB. Dépôt de la Marine.
AB. École des Mines.
AB. École Normale Supérieure.
AB. École Polytechnique.
AB. Faculté des Sciences de la Sorbonne.
B. Institut Pasteur.
AB. Jardin des Plantes.
P. L'Électricien.
A. L'Observatoire.
P. Revue Scientifique (Mons. H. de Varigny).
P. Société de Biologie.
AB. Société d'Encouragement pour l'Industrie Nationale.
AB. Société de Géographie.
P. Société de Physique.
B. Société Entomologique.
AB. Société Géologique.
P. Société Mathématique.
P. Société Météorologique de France.
Toulouse.
AB. Académie des Sciences.
A. Faculté des Sciences.

Germany.

Berlin.
A. Deutsche Chemische Gesellschaft.
A. Die Sternwarte.
P. Gesellschaft für Erdkunde.
AB. Königliche Preussische Akademie der Wissenschaften.
A. Physikalische Gesellschaft.
Bonn.
AB. Universität.
Bremen.
P. Naturwissenschaftlicher Verein.
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Glasgow.
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  p. Natural History Society.
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Servia.

Belgrade.
  p. Académie Royale de Serbie.

Sicily. (See Italy.)

Spain.

Cadiz.
  A. Instituto y Observatorio de Marina de San Fernando.

Madrid.
  AB. Real Academia de Ciencias.

Sweden.

Gottenburg.
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Lund.
  AB. Universitet.

Stockholm.
  A. Acta Mathematica.
  AB. Kongliga Svenska Vetenskaps-Akademi.
  AB. Sveriges Geologiska Undersökning

Upsala.
  AB. Universitet.

Switzerland.

Basel.

Bern.
  AB. Allg. Schweizerische Gesellschaft.

Geneva.
  AB. Société de Physique et d'Histoire Naturelle.
  AB. Institut National Genevois.

Lausanne.

Neuchâtel.

Zürich.
  AB. Das Schweizerische Polytechnikum.
  p. Sternwarte.

Tasmania.

Hobart.
  p. Royal Society of Tasmania.

United States (continued).

Albany.
  AB. New York State Library.

United States (continued).

Annapolis.
  AB. Naval Academy.

Austin.
  p. Texas Academy of Sciences.

Baltimore.
  AB. Johns Hopkins University.

Berkeley.
  p. University of California.

Boston.
  AB. American Academy of Sciences.
  B. Boston Society of Natural History.
  A. Technological Institute.

Brooklyn.
  AB. Brooklyn Library.

Cambridge.
  AB. Harvard University.
  B. Museum of Comparative Zoology.

Chapel Hill (N.C.).

Charleston.
  p. Elliott Society of Science and Art of South Carolina.

Chicago.
  AB. Academy of Sciences.
  p. Journal of Comparative Neurology.

Davenport (Iowa).
  p. Academy of Natural Sciences.

Ithaca (N.Y.).
  A. Journal of Physical Chemistry.

Madison.

Mount Hamilton (California).
  A. Lick Observatory.

New Haven (Conn.).
  AB. American Journal of Science.
  AB. Connecticut Academy of Arts and Sciences.

New York.
  A. American Mathematical Society.
  p. School of Mines, Columbia College.

Philadelphia.
  AB. Academy of Natural Sciences.
  AB. American Philosophical Society.
  p. Franklin Institute.
  p. Wagner Free Institute of Science.
United States (continued).
Rochester (N.Y.).
  p. Academy of Science.
St. Louis.
  p. Academy of Science.
Salem (Mass.).
  p. American Association for the Advance-
  ment of Science.
  A. Essex Institute.
San Francisco.
  A. California Academy of Sciences.
Washington.
  A. Patent Office.

United States (continued).
Washington (continued).
  A. Smithsonian Institution.
  A. United States Coast Survey.
  B. United States Commission of Fish and
    Fisheries.
  A. United States Geological Survey.
  B. United States Naval Observatory.
  p. 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 1899, by the President and Council.

The Copley Medal to the Right Hon. Lord Rayleigh, F.R.S., in recognition of his contributions to Physical Science.

A Royal Medal to Professor G. F. FitzGerald, F.R.S., for his contributions to Physical Science, especially in the domains of Optics and Electricity.

A Royal Medal to Professor W. C. McIntosh, F.R.S., for his important monographs on British Marine Zoology and on the Fishery Industries.

The Davy Medal to Dr. Edward Schunck, F.R.S., for his researches on Madder, Indigo, and Chlorophyll.

The Bakerian Lecture for 1899, "The Crystalline Structure of Metals," was delivered by Professor J. A. Ewing, F.R.S., and Mr. W. Rosenhain, on May 18, 1899.

The Croonian Lecture for 1899, "On the Relation of Motion in Animals and Plants to the Electrical Phenomena which are associated with it," was delivered by Professor Burdon Sanderson, F.R.S., on March 16, 1899.