

22. Miscellaneous Topics

A. INSTITUTE AFFAIRS

ANNUAL REPORTS

Vol. ii—1885, pp. 1-26, Paper No. 1

Discussion of Amendments of the Constitution.

Vol. iii—1886, pp. 1-30

Committee appointed to consider the indorsement of Brush wire gauge.
Title of Past President introduced.

Vol. vi—1889, pp. 1-2

Vol. vii—1890, pp. 151-152

Vol. viii—1891, pp. 179-182

Vol. ix—1892, pp. 167-174

Vol. x—1893, pp. 233-250

Vol. xi—1894, pp. 247-272

Vol. xii—1895, pp. 215-224

Vol. xiii—1896, pp. 125-127

Vol. xiv—1897, pp. 156-159

Vol. xv—1898, pp. 260-266

Vol. xvi—1899, pp. 186-192

Vol. xvii—1900, pp. 239-245

HISTORICAL PREFACE

Vol. i—1884, pp. 1-4, Paper No. 1

History of the founding of the American Institute of Electrical Engineers. Copy of the circular issued in advocacy of the formation of the Institute.

Officers elected at the first meeting.

CONSTITUTION OF THE INSTITUTE

Vol. i—1884, pp. 1-5, Paper No. 13

REPORT OF COMMITTEE ON STANDARD WIRE GAUGE

Vol. iii—1886, pp. 144-157

After discussion, the adoption is postponed.

Report of the Committee on monthly meeting is adopted and steps taken to call a meeting the following month.

FIRST MONTHLY MEETING OF THE INSTITUTE

Vol. iv—1887, pp. 1-6

Outline of plan for generating low potential energy at coal mines and stepping up potential with storage batteries for long distance transmission.

Discussion, pp. 7-25, by Messrs. Joseph Wetzler, Otto A. Moses, ——

Rapieff, T. C. Martin, Sidney F. Shelbourne, Thos. D. Lockwood, C. O. Mailloux and G. W. Mansfield.

Speculative discussion of ways and means of transmitting electric energy at high potentials. Description of Crook's effect and series explaining it.

PRESIDENT ELIHU THOMSON'S TOAST AT BANQUET GIVEN BY LORD MAYOR OF LONDON AT GUILD HALL

Vol. vi—1889, pp. 483-484

PRELIMINARY REPORT OF THE STANDARD WIRING TABLE COMMITTEE

Vol. vii—1890, pp. 344-365

Standard conductivity based on Matthiessen's correct standard. Discussion of Matthiessen's standard. Resolution for the adoption of the henry as a unit of inductance.

REPORT OF THE STANDARD WIRING TABLE COMMITTEE

Vol. vii—1890, pp. 408-411

Discussion, pp. 411-417, by Messrs. F. B. Crocker, J. Stanford Brown, M. I. Pupin, R. W. Pope, C. O. Mailloux, E. T. Birdsall, George B. Prescott, Jr., Thomas D. Lockwood and Thorburn Reid.

Report, received, presented, but its adoption deferred.

REPORT OF COMMITTEE ON UNITS AND STANDARDS

Vol. viii—1891, pp. 533-534

List of new units practically needed for convenience in dealing with magnetic circuits.

Discussion, pp. 535-543, by Messrs. Carl Hering, C. O. Mailloux, Thos. D. Lockwood, A. E. Kennelly, Townsend Wolcott, W. A. Anthony, J. Stanford Brown, M. I. Pupin, Chas. P. Steinmetz and Francis B. Crocker.

REPORT OF DELEGATION TO THE FRANKFORT ELECTRICAL CONGRESS

Vol. viii—1891, pp. 544-547

Account of the presentation of the American Institute of Electrical Engineers' proposition for international definition of the "Henry" as practical unit of inductance.

NOTES ON THE FRANKFORT ELECTRICAL EXHIBITION

Carl Hering

Vol. viii—1891, pp. 549-560

Report on the electrical exhibits and applications of electricity at the Exposition. Study of dynamo designed and electrical distribution as represented at the Exposition.

No discussion.

AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS

Vol. viii—1891, pp. 601-60

Historical sketch of its organization and work.

COMING DEVELOPMENT OF ELECTRIC RAILWAYS

Presidential Address

Frank J. Sprague

Vol. ix—1892, pp. 229-249

Brief review of current practice of steam roads and possibilities of introduction of electromotive power in these systems.

No discussion.

**REPORT OF COMMITTEE ON REVISION OF THE RULES REGARDING THE
ELECTION OF OFFICERS**

Vol. ix—1892, pp. 460-461

**REPORT OF THE SUB-COMMITTEE ON PROVISIONAL PROGRAMME FOR THE
INTERNATIONAL ELECTRICAL CONGRESS OF 1893**

Vol. x—1893, pp. 1-12

Appendix I.—Brief Summary of the Units, Terms, Symbols and Definitions Adopted by Previous Electrical Congresses.—pp. 13-14.

Appendix II.—List of New Units Practically Needed for Convenience in Dealing with Magnetic Circuits.—pp. 15-16.

Appendix III.—The Silver Voltmeter.—pp. 17-20.

Appendix IV.—Electric Notation, Abbreviations and Symbols.—pp. 401-403.

Appendix V.—Matthiessen's Standard of Resistance of Copper.—pp. 21-26.

**COMPILATION OF DISCUSSIONS, SUGGESTIONS AND CRITICISMS APPEARING IN THE
TECHNICAL AND SCIENTIFIC PRESS UPON THE REPORT AND PROVISIONAL
CONGRESS PROGRAMME OF THE SUB-COMMITTEE APPOINTED BY
THE AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS**

Vol. x—1893, pp. 404-426

ON THE NOTATION PROPOSED BY M. HOSPITALIER

Alexander Macfarlane

Vol. x—1893, pp. 427-429

**COMMENTS ON THE REPORT OF THE COMMITTEE ON THE PROVISIONAL
PROGRAMME FOR THE CONGRESS**

John Sahulka

Vol. x—1893, pp. 430-432

THE INTERNATIONAL ELECTRICAL CONGRESS AND WORLD'S FAIR, OF 1893

President's Address

Edwin J. Houston

Vol. x—1893, pp. 464-478

Report of the delegates of the International Electrical Congress. Criticism of the management of the Congress.

Discussion, pp. 479-483, by Messrs. T. D. Lockwood, W. H. Preece, F. W. Jones, Charles P. Steinmetz and W. J. Hammer.

General remarks on the Congress.

MONTHLY MEETINGS OF THE INSTITUTE, THEIR ORIGIN AND PROPOSED DEVELOPMENT

Ralph W. Pope Vol. x—1893, pp. 528-543

Presentation of the plan for the establishment of local branches for the Institute.

Discussion, pp. 544-554, by Messrs. Dr. C. A. Doremus, A. J. Bloor, George Hill, Charles P. Steinmetz, F. A. Bowman, A. E. Kennelly, Charles E. Emery and H. L. Webb.

Letters from men prominent in other societies that have local branches. Outline of resolution to authorize establishment of local branches.

REPORT OF COMMITTEE ON LOCAL MEETINGS

Vol. x—1893, pp. 603-626

Discussion by Messrs. Townsend Wolcott, James Hamblet, Ralph W. Pope, H. L. Webb, George M. Phelps, E. J. Houston, Chas. Cuttriss, T. C. Martin, W. J. Hammer, Charles E. Emery, A. E. Kennelly, R. O. Heinrich, W. B. Vansize, Francis B. Crocker and Nelson W. Perry.

INSTITUTE WIRE TABLE

Vol. x—1893, pp. 668

REPORT OF COMMITTEE ON UNITS AND STANDARDS

Vol. xi—1894, pp. 48-52

Discussion, by Messrs. Townsend Wolcott, C. O. Mailloux, Charles P. Steinmetz, A. E. Kennelly and C. S. Bradley.

REPORT OF COMMITTEE ON REVISION OF RULES

Vol. xi—1894, p. 52

REPORT OF COMMITTEE ON UNITS AND STANDARDS

Vol. xi—1894, pp. 124-132

ANNUAL REPORTS OF THE COUNCIL, SECRETARY AND TREASURER. ALSO THE COMMITTEE ON UNITS AND STANDARDS AND THE COMMITTEE ON REVISION OF RULES

Vol. xi—1894, pp. 246-274

A REVIEW OF THE PROGRESS OF THE AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS

President's Address

Edwin J. Houston

Vol. xi—1894, 275-284

SUGGESTIONS FOR AN INDEX OF ENGINEERING LITERATURE

George D. Shepardson

Vol. xi—1894, pp. 789-795

General discussion of the importance of indexing engineering literature. Outline of various important indices. Suggested plan for engineering index.

Discussion, pp. 796-826, by Messrs. T. C. Martin, J. S. Brown, W. E. Goldsborough, Max Osterberg, Carl Hering, F. B. Crocker, Edward Cald-

B. PATENTS AND THE PATENT OFFICE

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well, R. W. Pope, E. J. Houston, W. S. Aldrich, C. Wellman Parks, Fred. DeLand, W. M. Stine and L. L. Summers.

General remarks on the classification of engineering topics and the making of indices.

REPORT OF THE COMMITTEE ON UNITS AND STANDARDS'

Vol. xi—1894, pp. 827-829

MOTION TO INCORPORATE THE INSTITUTE

Vol. xiii—1896, pp. 35-36

THE PRECISION OF ELECTRICAL ENGINEERING

Presidential Address

F. B. Crocker

Vol. xiv—1897, pp. 237-249

Part played by precision measurement and determination of electrical quantities in the department of electrical engineering.

THE INTERNATIONAL ELECTRICAL CODE

Vol. xiv—1897, pp. 489-511

Report of the International Electrical Code, 514.

Discussion, pp. 515-546, by Messrs. M. J. Hammer, Joseph Sachs, A. E. Kennelly, Gano S. Dunn, C. O. Mailloux, C. M. Goddard, Cary T. Hutchinson, Alex. Henderson, S. Dana Greene, F. B. Crocker, A. S. Hibbard, R. H. Pierce, A. V. Abbott, S. G. McKeen, R. E. Richardson, W. H. Merrill, C. G. Burton and W. M. Stine.

THE PRESENT STATUS OF ELECTRICAL ENGINEERING

Presidential Address

A. E. Kennelly

Vol. xv—1898, pp. 273-280

Short résumé of the development of various branches of electrical engineering.

THE VOLTA CENTENARY

Vol. xvi—1899, p. 185

Remarks by the President.

**REPORT OF THE COMMITTEE ON STANDARDIZATION, FOLLOWED BY
RULES ADOPTED**

Vol. xvi—1899, pp. 255-268

B. PATENTS AND THE PATENT OFFICE

COMMUNICATION ON EXISTING CONDITIONS IN THE PATENT OFFICE

Vol. i—1884, pp. 4-9, paper No. 1

THE PATENT OFFICE—ITS RELATION TO INVENTORS AND ITS NEEDS

Vol. i—1884, pp. 1-12, paper No. 12

Beginning of U. S. Patent Office; its original and present organization. Classification of the staff and description of the duties of each branch. Detailed account of the present status and needs of the Patent Office.

Discussion, pp. 13-20, by Messrs. C. J. Kintner, F. Jannus, E. J. Houston, N. S. Keith and G. C. Maynard.

General discussion of the shortcomings of the Patent Office.

THE PROTECTION OF ELECTRICAL INVENTIONS

Frankland Jannus

Vol. ii—1885, pp. 1-7, paper No. 2

General remarks on U. S. Patent system. Citation of specific cases which illustrate what a patent should contain.

Discussion, pp. 7-19, by Messrs. F. L. Pope, E. P. Thompson, F. Jannus, T. D. Stetson, E. P. Roberts, T. C. Martin and Sidney F. Shelbourne.

Recital of experiences with the U. S. Patent Office system. Motion made and passed to appoint committee to call attention of Congress to the needs of the Patent Office.

THE PATENT OFFICE AND PATENT OFFICE PRACTICE

A. C. Fowler

Vol. iii—1886, pp. 94-109

General discussion of reforms needed in the United States Patent Office, followed by discourse on some important features in Patent Office practice. General instructions for drawing up patent specifications.

Discussion, p. 110, by Mr. Frank L. Pope.

REVISION OF THE PATENT LAW

Arthur Steuart

Vol. v—1888, pp. 135-149

Specific suggestions as to needed reforms in the Patent Office laws.

Discussion, pp. 149-193, by Messrs. Geo. T. Curtis, O. H. Platt, Albert H. Walker, C. J. Kintner, Geo. M. Phelps, A. C. Fowler, Thomas D. Lockwood, Frankland Jannus, J. K. Miller, ——— Davidson, S. S. Wheeler, Arthur Steuart, T. C. Martin, E. N. Dickerson, Jr., E. Berliner, Almon Robinson, Elihu Thomson, Elias E. Ries, G. H. Stockbridge, R. M. Hunter, Hubert Howson and Roland R. Hazard.

General discussion of the U. S. Patent office situation and arguments for and against changes; praise and criticism of the system.

THE PATENT COURT AND UNIFORMITY IN PATENT OFFICE PRACTICE

Geo. H. Stockbridge

Vol. v—1888, pp. 339-344

Review of the practice of the Patent Office regarding its attitude towards the claims of a machine and its product in the same patent.

C. GENERAL SUBJECTS

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CONCERNING A CHANGE OF POLICY IN THE ADMINISTRATION OF THE
PATENT OFFICE

Philip Mauro

Vol. xi—1894, pp. 56-68

Defense of the policy of liberality with regard to the granting of patents. Discussion of what constitutes an invention.

Discussion, pp. 68-75 and 114-122, by Messrs. W. B. Vansize, Edward P. Thompson, Theodor J. W. Olan, W. N. Forney, Joseph Sachs, Edwin J. Houston and Almon Robinson.

General remarks on the policy of the Patent Office in regard to its definition of what constitutes an exercise of inventive faculty.

C. GENERAL SUBJECTS

THE SCIENTIFIC CITY STREET

Rowland R. Hazard

Vol. i—1884, pp. 1-6, paper No. 6

Description of a proposed subway construction for Broadway, New York, involving tunnels for express and local train service and of public utilities such as gas, electricity, water, telephone, telegraph, etc.

PROTECTION OF THE HUMAN BODY FROM DANGEROUS CURRENTS

Patrick B. Delany

Vol. v—1888, pp. 263-269

General discussion of the conducting character of the human body, and description of a proposed method of protection by shunting the vital parts with a low resistance conductor.

Discussion, pp. 269-276, by Messrs. G. M. Phelps, Jr., R. W. Pope, Jos. Wetzler, P. H. Vander Weyde, Elihu Thomson and Otto A. Moses.

General remarks on the causes of fatality of electric shocks.

ELECTRICAL NOTES OF A TRANSATLANTIC TRIP

Thomas E. Lockwood

Vol. vi—1889, pp. 411-425

Review of current practice in telegraphy, electric lighting and telephony in England and on the Continent of Europe. Brief mention of some of the Electrical exhibits at the Paris Exposition.

Discussion, pp. 425-439, by Messrs. F. L. Pope, Allen V. Garratt, T. C. Martin and G. L. Addenbrooke.

Additional information on the methods of construction employed in English distribution systems. Electric railways in England.

THE INVENTIONS OF HOMER DAVENPORT

Franklin L. Pope

Vol. viii—1891, pp. 93-97

Brief account of some of Davenport's early work on the electric motor, the telegraph and the plunger magnet. Illustrations of one of his early electric railway models. Gift of two copies of the 'Electro-Magnet and Mechanics' Intelligencer," the first paper printed by electric power.

No discussion.

SHALL "ALUMINIUM" BE "ALIUUM"

Oberlin Smith

Vol. viii—1891, pp. 420-423

Plea for the introduction of the name "alium."

Discussion, pp. 424-430, by Messrs. P. H. Vander Weyde, Ralph W. Pope, ——— Waldo, Edw. L. Nichols, Thos. D. Lockwood, Oberlin Smith, William E. Geyer, Alexander S. Brown, Elihu Thomson and Edward Weston.

Objections to the changing of the name of aluminium.

SOME POINTS FOR THE ELECTRICAL ENGINEER

Horatio A. Foster

Vol. ix—1892, pp. 291-298

Résumé of central station design based on examination of more than 100 stations.

Discussion, pp. 298-301, by Messrs. H. Ward Leonard, Prof. Roberts and T. C. Martin.

Selection of site for central station.

INCOMPLETED WORK OF THE INTERNATIONAL ELECTRICAL CONGRESS OF 1893

Vol. xi—1894, pp. 111-113

NOTES OF RECENT ELECTRICAL ENGINEERING DEVELOPMENTS IN FRANCE AND ENGLAND

H. Ward Leonard

Vol. xii—1895, pp. 36-53

Account of observations of European practice in manufacturing and engineering, synchronous converters, steam engines, Parsons and DeLaval turbines, electric railways, central stations. Description of equipment and mode of operating and tests of Heilman self-contained electric locomotive.

Discussion, pp. 54-77, by Messrs. Townsend Wolcott, John W. Lieb, Jr., Chas. E. Emery, Herbert Lloyd, A. E. Kennelly, Wm. Maver, Jr., M. N. Forney, Cary T. Hutchinson, W. L. Bliss, Richard Fleming, Joseph Sachs, F. B. Crocker, E. J. Houston, H. Ward Leonard, B. J. Arnold, W. M. Stine, C. K. MacFadden, L. L. Summers and A. V. Abbott.

General data on Berlin central stations. Discussion of the Heilman locomotive performance and probable usefulness.

UNDERWRITERS' RULES

William A. Anthony

Vol. xii—1895, pp. 170-173

Protest against resolution passed by New York Board of Fire Underwriters approving "Attix" tube.

Discussion, pp. 174-214, by Messrs. C. O. Mailloux, William J. Hammer, H. Ward Leonard, Franklin S. Holmes, James Hamblett, W. J. Jenks, James I. Ayer, C. J. H. Woodbury, Fremont Wilson, Clark C. Haskins, W. H. Merrill, Jr., Arthur Frantzen, L. Gutmann, B. J. Arnold, William L. Puffer, A. E. Kennelly, W. A. Anthony and C. T. Huthinson.

General remarks on Electric Code for fire underwriters. Account of experiments on current-carrying capacity of insulated wires under various conditions.

ADDRESS BY DR. GEORGE F. BARKER UPON MOSES J. FARMER

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D. OBITUARY NOTICES

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