TABLE OF CONTENTS.

JOHNS HOPKINS UNIVERSITY CIRCULARS.

SEPTEMBER, 1882—OCTOBER, 1883.

NOTES IN BIOLOGY.

Brooks, W. K. The Metamorphosis of Peneus, 6;—The Origin of Alternation of Generations in Hydro-Medusa, 73.

Conn, H. W. On Radial and Bilateral Symmetry in Animals, 73.

Councilman, W. T. A Discussion of Recent Researches in Europe on the Lower Organisms and their Connection with Infectious Diseases, 25.


Duggan, J. R. See W. T. Sewall.

Garmian, H. List of Birds Observed at Beaufort, N. C., 74.


Osborne, H. L. On the Growth of the Molluscan Shell, 7.

Schimper, A. W. F. Researches on the Growth of Starch Grains, 25.


Stevens, L. T. See H. H. Donaldson.

Tuttle, A. H. On Ciliated Epithelium in the Human Kidney, 149.

Warfield, M. See H. H. Donaldson.

Wilson, E. B. On a New Form of Pilidium, 24;—The Development of Renilla, 78.

NOTES IN CHEMISTRY AND GEOLOGY.


Uhler, P. R. Geology of the Surface Features of the Baltimore Area, 52.

NOTES IN HISTORY, POLITICAL SCIENCE, Etc.


Allan. The Peninsula Campaign of 1862, 55.

Armstrong, C. M. Taxation in Maryland, 147.


Brown, G. W. Note on Mr. E. A. Freeman’s Remarks on Trial by the Court in Criminal Cases, 10.


Carpenter, W. B. The University of London, 12.

Chardale, W. T. Town and Gown, 57.


Godfrey, F. J. The Office of Public Prosecutor, 147.


Johnston, A. The Genesis of a New England State, 75.


Ramage, B. J. The District System of South Carolina, 28;—The Baltimore and Ohio Employ’s Relief Association, 77.

Rose, J. C. Municipal Politics in Baltimore, 56.

Sings, C. H. Immigration, 146;—Spanish Plots in the Southwest, 146.

Wilhelm, L. W. The Township in Maryland, 73.

Williams, T. The Revised Tariff in its Relations to the Economic History of the United States, 148.

NOTES IN MATHEMATICS.

Alford, B. Intersection of Circles and Intersection of Spheres, 8.

Barnes, E. On the Strophoide, 145.

Cayley, A. Introduction to a Memoir on the Abelian and Theta Functions, 85;—also see Correspondence, 85, 86, 150.

Césaro, A. See Correspondence, 85.

Craig, T. Some Elliptic Function Formulae, 8;—On the Counter Pedal Surface of an Ellipsoidal, 8.


Dover, W. P. Tables of the Symmetric Functions of the Tetratic, 8;—On Symmetric Functions, 23;—On the Number of Self-Opposite Partitions, 23;—The Tabulation of Symmetric Functions, 72;—also see note on a letter of Faà de Bruno respecting a recent paper by Mr. Durfee, 59.

Ely, G. S. The Numbers αn, which occur in connection with the Proof of Staudt’s Theorem concerning Bernoulli’s Numbers, 47;—On the Numbers of Bernoulli and Euler, 145.

Faà de Bruno. Quelques Applications de la Théorie des Formes Binaires aux Fonctions Elliptique, 8;—also see Correspondence, 59.

Franklin, F. On Croch’s Theorem, 24;—On Partitions, 72;—On an Expression for Euler’s Constant, 143.

Hammond, J. See Correspondence, 59, 84, 150.


Mitchell, O. H. On Concic Sections, 144.

Prince, C. S. A Class of Multiple Algebras, 8;—also see Correspondence, 86.

Sylvester, J. J. On Crocchi’s Theorem, 2;—On Certain Successions of Integers that cannot be Indefinitely Continued, 2;—On Subinvariants (Semi-invariants) to Binary Quantities of an Unlimited Order, 3;—The Fundamental Theorem in the New Method of Partitions, 22;—Note on W. P. Durfee’s paper on Self-Opposite Partitions, 23;—On P. Franklin’s Proof of Euler’s Theorem concerning the Form of the Infinite Product $1 - x^2(1 - x^4)(1 - x^8)\ldots$, 42;—The Use of Cross-Gratings to obtain Certain Developments connected with the Theory of Elliptic Functions, 43;—On the Number of Fractions in their Lowest Terms whose Numerators and Denominators are Limited not to exceed a certain Number, 44;—On Subinvariants, 45;—Proof of a well known Development of a Continued Product in a Series, 46;—An Erratum, 46;—A New Theorem in Partitions, 70;—On the Methodical Graphical Proof of Euler’s Theorem on the Partitions of Pentagonal and Non-pentagonal Numbers, 71;—On Parey Series, 143;—also see Correspondence, 86.

NOTES ON PHILOLOGY.

Alexander, W. J. Matthew Arnold’s Poetry Test, 26;—Participial Periphrases in Attic Prose, 66.

Brandt, H. C. G. Meeting of German Philologists, (Correspondence), 35.

Bloomfield, M. A Search for Functional or Dialectic Differences in the Present Systems of the Veda, 29;—Arthur C. Burnell and the Talmavakara Brähmana, 51;—The General Theory of Greek Accentuation, 66;—The Etymology of $\phi\nu\lambda\sigma\iota\gamma$, 141.

Bright, J. W. A Fragment of King Alfred’s Anglo-Saxon Translation of Gregory’s Cura Pastoralis, 52.


Ellis, E. On the Culex and other Poems of the Appendix Vergiliana, 83.

Emerson, A. On the so-called Dying Alexander of the Uffizi Gallery, 68.

Gildersleeve, B. L. Grammar and Aesthetie, 5;—Notes from the Greek Seminary, 6;—Note on Liddell & Scott’s Greek Lexicon, 59;—Note on W. J. Alexander’s Paper on Participial Periphrases in Attic Prose, 67;—Studies in Pindaric Syntax, 68;—$\epsilon\rho\pi\sigma
\tau\omega$, 69;—On the word “Sophy” in Shakespeare’s Twelfth Night, 88;—Symmetry in Pindar, 138;—Note on Mr. Miller’s Paper on Lyric and Non-Lyric in Aristophanes, 142.

Hall, FitzEdward. On the English Perfect Participle used Infinitively, 83;—On Some Points of Usage in English, 89.

Harris, J. R. On the Locality to which must be Assigned the Treatise of Palladius de Agri Cultura, 6;—New Testament Autographs, 51;—On the Normal Forms of Early Epistles, 66;—On a Transposition in Seneca, 69;—On Euthalian Stichometry, 140.

Harrison, J. A. On the Creole Patois of Louisiana, 33.


Ludlow, T. W. On the Athenian Naval Arsenal of Philion, 33.

Marrou, P. B. French Syntax as Affected by the Cultivation of Style, 68.

Miller, C. W. E. Lyric and Non-Lyric in Aristophanes, 142.


Nettleship, H. Nonius Marcellus, 7.

Postgate, J. P. Etymological Studies, 33, 154.


Spieker, E. H. The Use of $\epsilon\rho\kappa$ (or $\lambda\epsilon\nu$) in Direct Quotations, 26;—$\epsilon\rho\pi\sigma
\tau\omega$, 69.

Tolman, A. H. Quantity in English Verse and the Hexameter, 52;—Laws of Tone Color in the English Language, 110.

Warren, M. The Importance of Latin Glossaries with Special Reference to Codex Sangalienis, etc., 51;—A Pauline Pun, 141.

Whitney, W. D. Eggling’s Translation of the Čathapathabrähmana, 88.

NOTES IN PHILOSOPHY, Etc.

Dewey, J. Knowledge and the Relativity of Feeling, 54.

Morris, G. S. The Fundamental Conceptions of University and Philosophy, 54.


NOTES IN PHYSICS.

Abney, W. de W. See Correspondence, 29.

Bisbing, G. On the Helmholz-Koenig Controversy, 74.

Hastings, C. S. On some recent Experiments in the Construction of Telescope Objectives, 9;—Phenomena presented by the Atmosphere of Venus during a Transit, 79;—also see a note on the Eclipse of the Sun on May 6, 1885, 102.

Kewler, J. E.—Phenomena presented by the Atmosphere of Venus during a Transit, 79.

Kimball, A. L. A Determination of the Ohm in Absolute Measure, 54.


The Eclipse of the Sun on May 6, 1888, 152.


The Transit of Venus as observed in Baltimore, 29.

CORRESPONDENCE.


PROCEEDINGS OF SOCIETIES.

HISTORICAL AND POLITICAL SCIENCE ASSOCIATION, 38, 64, 94, 134, 156.

MATHEMATICAL SOCIETY, 38, 66, 94, 95, 121, 156.

METAPHYSICAL CLUB, 38, 64, 94, 156.

NATURALISTS’ FIELD CLUB, 38, 64, 94, 123.

PHILOLOGICAL ASSOCIATION, 38, 64, 94, 138, 156.

SCIENTIFIC ASSOCIATION, 38, 64, 94, 156.

MARYLAND HISTORICAL SOCIETY, 38, 64, 94.

PROGRAMMES AND REPORTS.

ENUMERATION OF CLASSES. First Half-Year, 15-18;—Second Half-Year, 90-93.

GENERAL PROGRAMME FOR 1883-84, 118-120.

ANCIENT AND MODERN LANGUAGES. Enumeration of Classes, 16, 17, 91, 92;—Work of 1882-83, 131;—Programmes for 1883-84, 128.

ANGELO-SAXON. See English.

BIOLOGY. Enumeration of Classes, 15, 90;—Work of 1882-83, 129;—Special Lectures on Physiology for Advanced Students, 37;—Programme for 1883-84, 125;—also see Marine Laboratory.

CHEMISTRY. Enumeration of Classes, 15, 90;—Work of 1881-82, 124;—Historical Lectures on Chemistry, 37;—Programme for 1883-84, 123.

DRAWING. Enumeration of Classes, 18, 93;—Programme for 1883-84, 120.
EDUCATION. Programme of Special Lectures on Educational Topics, 120.

ELOQUENT. Enumeration of Classes, 18, 93.


ETHICS. See Philosophy.

FRENCH. See Romance Languages.

GEOLOGY. See Mineralogy.


GREEK. Enumeration of Classes, 16, 91;—Work of 1882-83, 131;—Programme for 1883-84, 128.

HEBREW. See Shemitic Languages.

HISTORY AND POLITICAL SCIENCE. Enumeration of Classes, 17, 93;—Work of 1882-83, 134;—Programme for 1883-84, 133.

HOPKINS HALL LECTURES. Notice in Respect to the Admission of the Public, 13;—Programmes for 1882-3, 15, 26, 83.

LATIN. Enumeration of Classes, 16, 91;—Work of 1882-83, 131;—Programme for 1883-84, 128.

LOGIC. See Philosophy.

MARINE LABORATORY. Work of 1882-83, 127;—also see Biology.

MATHEMATICS. Enumeration of Classes, 15, 90;—Work of 1882-83, 121;—Programme for 1883-84, 121.

MINERALOGY AND GEOLOGY. Programme for 1883-84, 124.

PEABODY INSTITUTE LECTURES. Programme for 1882-3, 14.

PHILOSOPHY, LOGIC, AND ETHICS. Enumeration of Classes, 15, 84, 98;—Programme for 1883-84, 136;—Programme of Undergraduate Courses in Logic, Ethics, and Psychology for 1883-84, 136.

PHYSICAL CULTURE. Enumeration of Classes, 93.

PHYSICS. Enumeration of Classes, 15, 90;—Work of 1882-83, 122;—Programme for 1883-84, 122.

POLITICAL SCIENCE. See History.

PSYCHOLOGY. See Philosophy.

ROMANCE LANGUAGES. Enumeration of Classes, 17, 92;—Work of 1882-83, 182;—Programme for 1883-84, 130.


SHEMETIC LANGUAGES. Enumeration of Classes, 91;—Work of 1882-83, 132;—Programme for 1883-84, 129.

COMMENONATION DAY ADDRESS.


NOTICES OF RECENT JOURNALS AND BOOKS.

American Chemical Journal, (Vol. 4, No. 4), 7; (Vol. 4, No. 5), 54; (Vol. 5, No. 1), 69, 124.

American Journal of Mathematics, (Vol. 5, No. 1), 8; (Vol. 5, No. 2), 33; (Vol. 5, No. 3), 80, 121.

American Journal of Philology, (Nos. 10, 11), 7; (Nos. 11), 33; (Nos. 12), 44, 83; (Nos. 13), 83, 139, 134.

Contributions to Logic, 54.

Journal of Physiology, (Vol. 3, Nos. 5 and 6), 34.

Studies from the Biological Laboratory, (Vol. 2, No. 3), 34, 127.

Studies in Historical and Political Science, 80, 57, 77, 83, 134.

Adams, H. B., Saxon Tithingmen in America, 82.

Bennis, E. W., Local Government in Michigan and the Northwest, 82.


Craig, T., On the Parallel Surface to the Ellipsoid, 81;—A Treatise on Projections, 81.


Gildersleeve, B. L., Latin Trimer, 36.

Gilman, D. C., James Monroe, 82.

Harris, Jr., New Testament Autographs, 82.

Ingle, E., Parish Institutions of Maryland, 82.

Jameson, J. F., Montauk and the Common Lands of Easthampton, 82.


Morris, G. S., Lectures on Philosophy and Christianity, 59;—Kant's Critique of Pure Reason, 81.

Peabody Institute, Catalogue of the Library of, 81.

Rowland, H. A., Equivalente Meccanico della Caloria, 82.

LIBRARY ANNOUNCEMENTS AND BIBLIOGRAPHY.

Bibliography of Dr. Carpenter's Lectures on the Eddas, etc., 13;—Mr. Haden's Course on Etching, 58;—Dr. G. S. Hall's Lectures on Psychology, 89;—Professor Harrison's Lectures on Anglo-Saxon Poetry, 63;—Dr. B. F. O'Connor's Lectures on the Early French Chroni-

BIBLIOGRAPHY. cleris of the Crusades, 89;—Peabody Institute Lectures, 1882-83, 14.

Bluntschi Library—Presentation to the University, 60;—An Account of its Contents, 61.

Johns Hopkins University—Recent Library Accessions, 62.

Peabody Institute: Library Building, 151;—Library Catalogue, 81;—Recent Accessions to Library, 18, 62, 89;—List of Works relating to Assyrian, Babylonian, Chaldean Texts and Inscriptions, 167.

COLLEGIATE INSTRUCTION.

COLLEGE COURSES. Special Circular as to, 95-106.

Matriculation, Requirements for, 96.

Preliminary Medical Course, Entrance to, 96.

Special Students, 96.

Tabular Statement of College Courses, 97.

Detailed Statements as to the Various College Studies, 98-100.

Advisers, 101.

Examinations, 101.

Degree of Bachelor of Arts, 101.

Times of Examinations, 102.

Hopkins Scholarships, 102.

Honorary Hopkins Scholarships, 102.

Charges for Tuition, Etc., 102.

On the Opportunities here Afforded for Acquiring a College Training, 103.

Also see Programmes and Reports.

CURRENT INFORMATION.

Academic Staff, 1882-83, 106.

Appointments, 1883-84, 155.

Bachelors of Arts, 1883, 155.

Bluntschi Library, Presentation to the University, 60.

Bibliography, 18, 37.

Cable, G. W., Lectures on the Relations of Literature to Modern Society, 107.

Calendar, 1, 21, 41, 65, 102, 117, 137.

Carpenter, W. H., Lectures on Old Norse Literature, 13.

Commemoration Day, 1883, 88.

Coates, H., Lectures on English Verse, 36, 58.
Publications Issued under the Auspices of the Johns Hopkins University.


II.—American Chemical Journal.

III.—The American Journal of Philology.

IV.—Studies from the Biological Laboratory.
Including the Chesapeake Zoological Laboratory.

V.—Studies in Historical and Political Science.

VI.—Contributions to Logic.
Professor C. S. Peirce, Editor. A volume of Logical Contributions, by members of the Johns Hopkins University. (Little, Brown & Co., Boston, 1882).

VII.—Johns Hopkins University Circulars.

VIII.—Annual Report.
Presented by the President to the Board of Trustees reviewing the operations of the University during the past academic year.

IX.—Annual Register.
Giving the list of officers and students, and stating the regulations, etc., of the University. Published at the close of the Academic Year.

X.—The Journal of Physiology.
Edited by Professor Michael Foster, of Cambridge, Eng., is published with the aid of the Johns Hopkins University. Volume iv. in progress. 8vo. $5 per volume.

The University Circulars, Annual Report, and Annual Register will be sent by mail for one dollar per annum.

Communications in respect to exchanges and remittances may be sent to the Johns Hopkins University (Publication Agency), Baltimore.