

Undergraduate Department



*M Woodward*

CALVIN MILTON WOODWARD, A.B., Ph.D., *Thayer Professor of Mathematics and Applied Mechanics and Dean of the Engineering School.*

A.B. Harvard, 1860. Principal Classical High School, Newburyport, Mass., 1860-1865. Vice-Principal Academic Department, Washington University, 1865. Taught Latin, Greek and Mathematics, 1865-1867. Organized Polytechnic Department, 1868. Professor of Mathematics, Polytechnic Department, 1871. Then Thayer Professor of Mathematics and Applied Mechanics. Dean of Polytechnic School, later School Engineering, till 1896. Dean, School of Engineering, 1901. Organizer, then Principal of Manual Training School. Ph.D., Washington University, 1888. Author of "History of the St. Louis Bridge." Member American Society Civil Engineers, American Society Mechanical Engineers, National Council of Education. Fellow and Vice-President American Association for Advancement of Science, President Society for Promotion of Engineering Education, Senior Professor Washington University. Phi Beta Kappa.



*Marshall Snow*

MARSHALL SOLOMON SNOW, A. M., *Professor of History and Dean of the College.*

Phillips Exeter Academy, 1862. Harvard, 1862. A.B. Harvard, 1865. A.M. Harvard, 1868. Sub. Master High School, Worcester, Mass., 1865-1866. Principal High School, Nashville, Tenn., 1866-1867. Professor of Latin, University of Nashville, 1867-1870. Principal of Montgomery-Bell Academy, University of Nashville, 1868-1870. Professor of Belles-Lettres, Washington University, 1870-1874. Professor of History, Washington University, since 1874. Registrar of the College, 1871-1877. Dean of the College since 1877. Acting-Chancellor of the University, 1887-1891. Member of Missouri Historical Society, Corresponding Member Minnesota Historical Society, Honorary Member New Hampshire Historical Society. Member of American Historical Association, of American Academy of Political Science.



Francis E. Nipher

FRANCIS EUGENE NIPHER, A.M., *Wayman Crow Professor of Physics.*

Ph.B. Iowa State University, 1870. A.M., 1875. Assistant in Physics, Iowa State University, 1870-1874. Assistant Professor of Physics, Washington University, 1874-1875. Wayman Crow Professor of Physics, Washington University, since 1875. Recording Secretary Academy of Science of St. Louis, 1876-1885. President Academy of Science of St. Louis, 1885-1890. President Engineers' Club of St. Louis, 1890. Director Missouri Weather Service, 1877-1887. Director Magnetic Survey of Missouri, 1878-1883. Member California Eclipse Expedition, 1889. Ex-officio Trustee Missouri Botanical Garden, 1890-1890. Vice-President American Association for the Advancement of Science, and Chairman Physics Section at Washington Meeting, 1891. Member American Physical Society. Author of Theory of Magnetic Measurements, with an appendix on the Method of Least Squares, 1886. Electricity and Magnetism, 1895. Beta Theta Pi.



William Trelease

WILLIAM TRELEASE, S.D., *Engelmann Professor of Botany and Director of the Shaw School of Botany in Washington University since 1885.*

B.S. Cornell, 1880; S.D. Harvard, 1884. Charge of Summer School of Botany, Harvard, 1881-1884. Lecturer on Botany, Johns Hopkins, 1884. Professor of Botany 1883-1885, University of Wisconsin. Director of the Missouri Botanical Garden since 1889. Secretary of the Academy of Science, St. Louis, since 1896. President of the Botanical Society of America 1894-1895 and now President of American Society of Naturalists. Member of the National Academy of Sciences, and of principal American and foreign Botanical Societies, Editor-in-Chief for America of Botanisches Central-Blatt, Associate Editor of American Naturalist and Botanical Gazette. I.L.D., University of Wisconsin, 1902. Delta Upsilon.



Otto Heller

OTTO HELLER, Ph.D., *Professor of the German Language and Literature.*

Gymnasium at Dresden and Prague. Abiturientenexamen, 1881. Universities of Prague, Leipzig, Vienna, Berlin, 1881-1886. Teacher of Greek, LaSalle College, Philadelphia, 1886-1888; of German in The Forsythe School, and W. S. Blight's School, Philadelphia, 1886-1891. Instructor in German and French in the Massachusetts Institute of Technology, 1891-1892. Professor of the German Language and Literature in Washington University, 1892. University of Chicago, summers 1895-1897; Ph.D., 1897. University of Berlin, 1900-1901; Member of The Royal Prussian Germanistic Seminar Summer Schools, University of Vermont, Amherst College, etc., since 1886. Head of German Department Chautauqua Institution since 1900. Member of Modern Language Association of America, American Philological Association, Goethe Society of Weimar.



*Edward H. Keiser*

EDWARD HARRISON KEISER, Ph.D., *Eliot Professor of Chemistry.*

B.S. Swarthmore College, 1880. M.S. Swarthmore College, 1881. Fellow in Chemistry, Johns Hopkins University, 1882-1884. Ph.D. Johns Hopkins University, 1884. Instructor in Chemistry, Johns Hopkins University, 1884-1885. Professor of Chemistry, Bryn Mawr College, 1885-1899. Professor of Chemistry, Washington University, 1899. Member of American Philosophical Society, American Chemical Society, German Chemical Society, Berlin; Society of Chemical Industry, London.



*J. L. Van Ornum*

JOHN LANE VAN ORNUM, C. E., *William Palm Professor of Civil Engineering.*

B.S. in Civil Engineering, University of Wisconsin, 1888. C.E. University of Wisconsin, 1891. Engaged in railroad, municipal and government engineering for ten years. Major in the Third U. S. Volunteer Engineers during the war with Spain. Professor of Civil Engineering in Washington University, 1899. Beta Theta Pi.



*Frederic A. Hall*

FREDERIC ALDIN HALL, A.M., Litt.D., *Professor of Greek.*

A.B. Drury College, 1878. Principal of Drury Academy, 1878-1893. Studied at University, Gottingen, 1891-1892. Taught Greek in Drury College, 1881-1893; A.M., Drury College, 1881. Goodell Professor of Greek, Drury College, 1893-1901. Dean of Drury College, 1899; Litt.D., 1901. Professor of Greek in Washington University, 1901.



F. W. Shipley

FREDERICK WILLIAM SHIPLEY, Ph.D., *Professor of Latin.*

A.B. University of Toronto, 1892. Fellow in Latin in the University of Chicago, 1894-1897. Assistant in Latin in the University of Chicago, 1897-1898. Head of the Department of Latin in Lewis Institute, Chicago, 1898-1901. Ph.D. University of Chicago, 1901. Professor of Latin, Washington University, 1901. Chi Psi.



Alexander Chessin

ALEXANDER S. CHESSIN, A.M., C.E., Ph.D., *Professor of Mathematics.*

A.B. Imperial College of History and Philology, St. Petersburg, 1883. Ph.D. Imperial University of St. Petersburg, 1888. Awarded the Gold Medal of the University for the dissertation on Relative Motion. Envoy to European Universities of the Ministry of Russia, 1888-1890. Polytechnic Institute, Zürich, Switzerland, 1891-1893. C.E., 1893. Lecturer on Partial Differential Equations, Harvard University, and on Celestial Mechanics, Johns Hopkins University, 1894. Lecturer on Russia and the Russians before the Lowell Institute, Boston. Associate Professor of Mathematics, Astronomy and Mechanics, Johns Hopkins University, 1895-1898. Professor of Mathematics, Washington University, 1901.



Arthur O. Lovejoy

ARTHUR ONCKEN LOVEJOY, A.M., *Professor of Philosophy.*

A.B. University of California, 1895. A.M. Harvard, 1897. Harvard University, 1895-1898. James Walker Fellow of Harvard University, in the University of Paris, 1898-1899. Assistant Professor of Philosophy in Stanford University, 1899; Associate Professor, 1900. Professor of Philosophy in Washington University, 1901.



*R. H. Fernald.*

ROBERT HEYWOOD FERNALD, M.E., Ph.D., *Professor of Mechanical Engineering.*

B.M.E. Maine State College, 1892. Graduate student in Architecture, Massachusetts Institute of Technology, 1892-1893. Instructor in Mathematics and Mechanical Engineering, Case School of Applied Science, Cleveland, O., 1893-1896. Assistant Professor of Mechanical Engineering at the same institution, 1896-1900. M.E. Case School of Applied Science, 1898. Graduate student, Columbia University, New York City, 1900-1902. Fellow, Columbia University, 1900-1901. M.A. Columbia University, 1902. Professor of Mechanical Engineering, Washington University, 1902. Member of American Society of Mechanical Engineers, Society for the Promotion of Engineering Education, Engineers' Club of St. Louis, Academy of Science of St. Louis. Beta Theta Pi.



*Frederick M. Mann*

FREDERICK MAYNARD MANN, C.E., M.S., *Professor of Architecture.*

University of Minnesota, B.C.E., 1892, C.E., 1898. Massachusetts Institute of Technology, B.S., 1894, M.S., 1895. N.P.R.R. Construction Department, 1890-1892. Instructor in Architectural Design, University of Pennsylvania, 1895-1898. Practicing Architect, Philadelphia, 1898-1902. Professor of Architecture, Washington University, 1902. Sigma Xi. Psi Upsilon.



*G. Hambach*

GUSTAV HAMBACH, M.D., *Adjunct Professor of Geology.*

Studied medicine in St. Louis at Humboldt Institute of Natural History and Medicine. Practiced as M.D. until 1877. Washington University, 1877, Professor of Botany, Paleontology, Zoölogy and Geology. Now Adjunct Professor of Geology. Collections made since 1878 at present in Museum at Washington University. Since 1871 Librarian of the Academy of Science and Curator of its Museum.



*Gaston Douay*

GASTON DOUAY, *Assistant Professor of the French Language and Literature.*

Educated in France. Traveling Fellow of the Ministère du Commerce, 1889-1892. Taught French in New York in Preparatory School, then as lecturer in the Department of Romance Languages and Literatures, Columbia University, New York, 1892-1897. Instructor, then Assistant Professor of the French Language and Literature, Washington University, 1897. Member of the Modern Language Association of America.



*A. S. Langsdorf*

ALEXANDER SUSS LANGSDORF, B.S., M.M.E., *Assistant Professor of Electrical Engineering.*

B.S. in M.E. Washington University, 1898. M.M.E. Cornell University, 1901. Instructor in Physics, Washington University, 1898-1900. Assistant Professor of Electrical Engineering, Washington University, 1901. Sigma Xi.



*Arthur W. Greeley*

ARTHUR WHITE GREELEY, Ph.D., *Assistant Professor of Zoölogy.*

A.B. Stanford University, 1898. A.M., 1899. Ph.D. University of Chicago, 1902. Assistant in Zoölogy, Stanford University, 1896-1898. Instructor of Biology, State Normal School, San Diego, Cal., 1899-1900. Assistant in Physiology, University of Chicago, 1901-1902. Assistant Professor of Zoölogy, Washington University, 1902. Delta Upsilon.



Robert H. Fletcher

ROBERT HUNTINGTON FLETCHER, Ph.D., *Assistant Professor of English.*

Graduate of Dartmouth College, 1896. Instructor in the Classics and English Literature at the Susquehanna Collegiate Institute, Towanda, Pa. Principal of the High School at Newport, N. H. Graduate student of English three years at Harvard. A.M. Harvard, 1898; Ph.D., 1901. Held from Harvard the Kirkland Fellowship for 1901-1902, and spent the year studying in Europe. Assistant Professor of English in Washington University, 1902-1903. Delta Kappa Epsilon.



A. P. Winston

AMBROSE PARÉ WINSTON, Ph.D., *Assistant Professor of Economics.*

Graduate University of Wisconsin, 1887. Taught in Public Schools and State Universities of Illinois and Ohio. Studied at Berlin and Johns Hopkins, and, as fellow in Economics, at Chicago and Cornell. Ph.D. Cornell University, 1900. Instructor, then Assistant Professor of Economics at Washington University, 1901. Delta Upsilon.



Holmes Smith

HOLMES SMITH, *Instructor in Drawing; Secretary of the Faculty.*

Instructor in Drawing, 1884. Assistant to the Director, St. Louis School and Museum of Fine Arts, 1891-1894; in charge of Undergraduate Courses in History of Art, 1896; Secretary of the Faculty, 1899. President, Society of Western Artists, 1901-1902, 1902-1903.





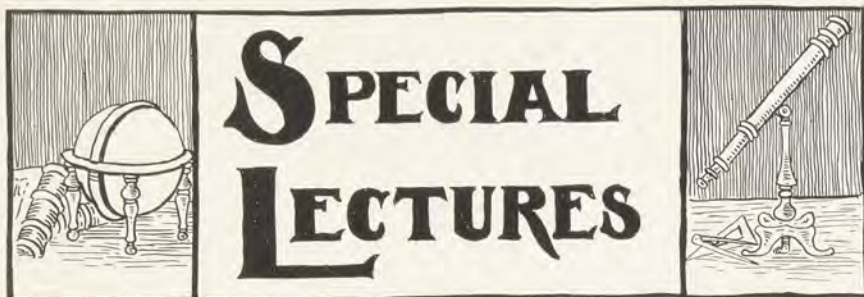
- HERMANN VON SCHRENK, A.M. Ph.D. *Instructor in Botany*  
 B.S. Cowell University, 1893  
 A.M. Harvard, 1894  
 Ph.D. Washington University, 1899
- SAMUEL MONDS COULTER, A.M. *Instructor in Botany*  
 A.B. Hanover College, 1880  
 A.M. Hanover College, 1898  
 Phi Delta Theta
- IRWIN RAUTENSTRAUCH, A.B. *Instructor in German*  
 A.B. Missouri State University, 1898  
 Phi Beta Kappa
- SHERMAN LEAVITT, B.S. *Instructor in Chemistry*  
 B.S. Washington University, 1900  
 Phi Delta Theta
- SAMUEL WALKER FORDER, B.S. *Instructor in Chemistry*  
 B.S. Washington University, 1902  
 Sigma Alpha Epsilon
- PHILIP ROSS GOODWIN, B.C.E. *Instructor in Civil Engineering*  
 B.C.E. University of Maine, 1900  
 Beta Theta Pi
- FREDERICK HALE VOSE, B.M.E. *Instructor in Mechanical Engineering*  
 B.M.E. University of Maine, 1900  
 Beta Theta Pi
- LINDLEY PYLE, A.M. *Instructor in Physics*  
 A.B. University of Michigan, 1901  
 A.M. University of Michigan, 1902





#### CLERGYMEN WHO HAVE CONDUCTED THE CHAPEL EXERCISES

November 10-14	REV. JAMES W. LEE	<i>St. John's Methodist Episcopal Church (South)</i>
November 17-21	REV. JOHN F. CANNON	<i>Grand Avenue Presbyterian Church</i>
November 24-28	REV. JAMES R. WINCHESTER	<i>St. James' Episcopal Church</i>
December 1-5	REV. JOHN W. DAY	<i>Unitarian Church of the Messiah</i>
December 8-12	REV. WILLIARD W. BOYD	<i>Second Baptist Church</i>
December 15, 17, 22, 23	REV. MICHAEL BURNHAM	<i>Pilgrim Congregational Church</i>
December 18-19	REV. CORNELIUS H. PATTON	<i>First Congregational Church</i>
January 5-9	REV. PATRICK W. TALLON	<i>Roman Catholic Church of the Holy Name of Jesus</i>
January 12-16	RT. REV. DANIEL S. TUTTLE	<i>Bishop of the Protestant Episcopal Church</i>
January 19-23	REV. HOWARD T. CREE	<i>Central Christian Church</i>
February 2-6	RABBI SAMUEL SALE	<i>Shaare-Emeth Synagogue</i>
February 9-13	REV. WILLIAM J. MCKITTRICK	<i>First Presbyterian Church</i>
February 16-20	REV. SAMUEL J. NICCOLLS	<i>Second Presbyterian Church</i>
February 23-27	REV. JOHN T. M. JOHNSTON	<i>Delmar Avenue Baptist Church</i>
March 2-6	REV. CARROLL M. DAVIS	<i>Christ Church Cathedral</i>
March 9-13	REV. HARRIS H. GREGG	<i>Washington and Compton Avenue Presbyterian Church</i>
March 16-20	REV. MOSHEIM RHODES	<i>St. Mark's English Evangelical Lutheran Church</i>
March 23	REV. CORNELIUS H. PATTON	<i>First Congregational Church</i>
March 24, 25, 26, 27	REV. JEREMIAH C. CROMER	<i>Fountain Park Congregational Church</i>
March 30 to April 3	REV. ABRAHAM B. NELSON	<i>Lindell Avenue Christian Church</i>
April 6-10	REV. SAMUEL C. EBV	<i>Church of the Divine Humanity</i>



GIVEN UNDER THE AUSPICES OF THE  
WASHINGTON UNIVERSITY ASSOCIATION

1902

- October 28 AERIAL NAVIGATION—OCTAVE CHANUTE, Consulting Engineer, Chicago  
 November 3, 10, 17, 24 THE ATHENIAN THEATER—(Illustrated)—FREDERIC A. HALL, Litt.D., Professor of Greek, Washington University  
 November 11 CORAL REEFS OF BRAZIL—ARTHUR W. GREELEY, Ph.D., Assistant Professor of Zoölogy, Washington University  
 November 25 MUNICIPAL EMBELLISHMENT—WILLIAM B. ITTNER, Commissioner of School Buildings, St. Louis  
 December 1, 8, 15, 22 THE ACROPOLIS OF ATHENS—(Illustrated)—HOLMES SMITH, Instructor in History of Art, Washington University  
 December 8 THE OLD AND THE NEW BIOLOGY—ARTHUR W. GREELEY, Ph.D., Assistant Professor of Zoölogy, Washington University  
 December 15 MODERN EXPERIMENTS IN PROTOPLASM—DOCTOR ARTHUR W. GREELEY

1903

- January 6 THE GERMAN AUTHORS IN THE NINETEENTH CENTURY—OTTO HELLER, Ph.D., Professor of the German Language and Literature, Washington University,  
 January 7, 14, 21, 26, & February 11, 18 STUDIES IN THE HISTORY OF FRANCE IN THE EIGHTEENTH CENTURY—MARSHALL S. SNOW, A.M., Professor of History and Dean of the College, Washington University  
 January 9, 16, 23 DEVELOPMENT OF DOMESTIC ARCHITECTURE—FREDERICK M. MANN, C.E., S.M., Professor of Architecture, Washington University  
 January 15, 22, 29, & February 5 SOME FUNDAMENTALS OF THE THEORY OF GOVERNMENT—ARTHUR O. LOVEJOY, A.M., Professor of Philosophy, Washington University  
 January 16, 23 & February 13, 20 LESSING, KLOPSTOCK, WIELAND, HERDER (in German)—OTTO HELLER, Ph.D., Professor of the German Language and Literature, Washington University  
 February 3 THE MECHANICAL ENGINEER; his duties, responsibilities and opportunities—WILLIAM H. BRYAN, M.E., Consulting Engineer, St. Louis  
 February 17 GOVERNMENT OF DEPENDENCIES—ISIDOR LOEB, Ph.D., Professor of Political Science and Public Law, The University of Missouri  
 March 3 OUR MUNICIPAL PROBLEMS—FREDERICK N. JUDSON, A.M., LL.B., Lecturer on Comparative Jurisprudence, Washington University  
 March 17 SOME ASPECTS OF THE MONROE DOCTRINE—EDMUND H. SEARS, A.M., Principal of Mary Institute, Washington University  
 April 21 THE MIND OF THE MOB—PROFESSOR GEORGE E. VINCENT, Ph.D., University of Chicago