



ARCHITECTURA

ARTES

INGENIERING



VNDERGRADVATE

DEPARTMENT



Faculty

Calvin Milton Woodward, A. B., Ph. D.

Thayer Professor of Mathematics and Applied Mechanics and Dean of the School of Engineering and Architecture.

A. B. Harvard, 1860. Principal Classical High School, Newburyport, Mass., 1860-1865. Vice-Principal Academic Department Washington University, 1865. Organized Polytechnic Department, 1868. Professor of Mathematics, Polytechnic Department, 1871. Thayer Professor of Mathematics and Applied Mechanics. Dean of Polytechnic School, later School Engineering, till 1896. Dean, School of Engineering and Architecture, 1901. Organizer and Director of Manual Training School, 1879. Ph. D. Washington University, 1883. Author of "History of the St. Louis Bridge." Member, National Council of Education. Fellow and Vice-President American Association for Advancement of Science. President, Board of Education, St. Louis. President, Aeronautical Congress, World's Fair. Phi Beta Kappa.

Marshall Solomon Snow, A. M.

Professor of History and Dean of the College.

Phillips Exeter Academy, 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 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, 1889-1890. 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, 1866. Electricity and Magnetism, 1895. Beta Theta Pi.



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*. LL. D., University of Wisconsin, 1902. Delta Upsilon.

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 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.

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 in the war with



Spain. Member of the American Society of Civil Engineers; the American Society for Testing Materials; the Society for the Promotion of Engineering Education; Fellow of the American Association for the Advancement of Science, etc. Professor of Civil Engineering in Washington University, 1899. Beta Theta Pi.

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.

Frederick William Shipley, Ph. D.

Professor of Latin.

A. B. University of Toronto, 1892. Fellow in Latin in the University of Chicago, 1894-1897. Student in American School for Classical Study in Rome, 1895-6. 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. Member of American Philological Association; Member of Council of Archaeological Institute of America; President of the Missouri Society of the Archaeological Institute, 1904. Chi Psi.

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. Envoy to European Universities of the Ministry of Russia, 1888-1890. Polytechnic Institute, Zurich, 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 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.



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. Ph. D. 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 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. Member American Institute of Architects; T Square Club, Philadelphia; St. Louis Architectural Club. Sigma Xi. Psi Upsilon.

Edgar James Swift, A. B., Ph. D.

Professor of Psychology and Pedagogy.

Amherst College, A. B. Student of Psychology and Pedagogy, Berlin and Leipzig. Professor of Psychology and Pedagogy, State Normal School, 1895-1900. Fellow in Psychology in Clark University, 1903. Ph. D. Clark University, 1903. Professor of Psychology and Pedagogy in Washington University, 1903. Phi Beta Kappa.

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, Zoology 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,

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.

Alexander Suss Langsdorf, B. S., M. E.

Assistant Professor of Electrical Engineering.

Washington University, 1898. Instructor in Physics, Washington University, 1898-1900. Graduate student in Electrical Engineering, Cornell University, 1900-1901. M. M. E., Cornell University, 1901. Assistant Professor of Electrical Engineering in Washington University since 1901. Associate Member, American Institute of Electrical Engineers. Fellow of the American Association for the Advancement of Science. Member of the Society for the Promotion of Engineering Education, of the Engineers' Club of St. Louis, and of the Academy of Science of St. Louis. Sigma Xi.

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, 1900-1902. Assistant Professor of Zoölogy, Washington University, 1902. Delta Upsilon. Died, March 15, 1904.

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.



John David Epes, B. A.

Acting for Professor Fletcher in Department of English.

Randolph Macon, B. A. Post Graduate Courses in English at Johns Hopkins. Professor of English in Centre College, Ky.; St. Johns College, Md.; State Normal School of Missouri; Washington University, 1904. Member of Modern Language Association of America.

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

Assistant Professor of Drawing; Secretary of the Faculty.

Duke of Devonshire Exhibitioner, then Science Teacher in Training, Royal College of Science, South Kensington, London, 1880-1884; Instructor, then Assistant Professor of Drawing, Washington University, 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, 1903-1904.

Samuel Monds Coulter, A. M.

Assistant Professor of Botany.

A. B., Hanover College, 1880. Taught in Indiana and Kentucky High Schools, 1881-1885. Manager American Bell Telephone Co. and Standard Electric Co., South Bend, Ind., 1886-1897. Graduate Student, University of Chicago, 1897-1901. A. M. Hanover, 1898. Assistant in Botany, University of Chicago, summers, 1900 and 1901. Instructor in Botany, Washington University, 1901-1903; Assistant Professor of Botany, 1903. Phi Delta Theta.



In
Memoriam



Arthur
White Greeley

Instructors

Sherman Leavitt, B. S.

Instructor in Chemistry.

B. S. Washington University, 1900.

Phi Delta Theta.

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.

Paul F. Reiff, Ph. D.

Instructor in German.

Tubingen.

Ph. D., Basel, 1901.

Harvard.

Alfred Ewington, A. M.

Instructor in French.

A. B., McKendree, 1897.

A. M., McKendree, 1898.

James A. Harris, Ph. D.

Instructor in Botany.

A. B., University of Kansas, 1901.

A. M., University of Kansas, 1902.

Ph. D., Washington University, 1903.

Sigma Xi.

George O. James, Ph. D.

Instructor in Mathematics.

A. B., Johns Hopkins University, 1895.

Ph. D., Johns Hopkins University, 1899.

Robert S. Starbird, A. B.

Instructor in English.

A. B., Chicago, 1903.

O. F. Steidemann, B. S.

Instructor in Chemistry.

B. S., Washington University, 1903.

Walter A. Smith, Ph. M.

Instructor in History.

Ph. B., Missouri Valley College, 1899.

Ph. M., University of Chicago, 1901.

Louis C. Spiering, A. D. G.

Instructor in Architecture.

Graduate of Real Gymnasium, Berlin,

1891.

A. D. G., "Ecole des Beaux Arts," Paris.





Clergymen Who Have Conducted Chapel Services

1903.	
April 6-10	Reverend Samuel C. Eby, <i>Church of the Divine Humanity.</i>
April 13-17	Reverend William J. Williamson, D. D., <i>Third Baptist Church.</i>
April 20-24	Reverend William Short, D. D., <i>St. Peter's Protestant Episcopal Church.</i>
April 27-May 1	Reverend J. Layton Mauze, <i>Central Presbyterian Church.</i>
May 4-8	Reverend Nathaniel Lucecock, D. D., <i>Union Methodist Episcopal Church.</i>
May 11-15	Reverend Edmund Duckworth, D. D., <i>St. James' Protestant Episcopal Church.</i>
May 18-22	Reverend John L. Brandt, <i>First Christian Church.</i>
May 25-29	Reverend William W. Newell, <i>Compton Hill Congregational Church.</i>
September 28	Reverend John W. Day, <i>Church of Messiah, Unitarian.</i>
October 5	Reverend Robt. A. Holland, D. D., <i>St. George's Episcopal Church.</i>
October 12	Reverend Cornelius H. Patton, <i>First Congregational Church.</i>
October 19	Reverend Baxter P. Fullerton, <i>Lucas Avenue Cumberland Presbyterian Church.</i>
October 26	Rabbi Leon Harrison, <i>Temple Israel.</i>
November 2	Reverend George R. Dodson, Ph. D., <i>Church of Unity.</i>
November 9	Reverend L. H. Dorchester, <i>Lindell Avenue M. E. Church.</i>
November 16	Professor Snow.



November 23	Reverend James R. Winchester, D. D.,	<i>Church Ascension.</i>
November 30	Reverend John F. Cannon,	<i>Grand Avenue Presbyterian Church.</i>
December 7	Reverend W. D. Bradfield, D. D.,	<i>Cook Avenue M. E. Church.</i>
December 14	Reverend Mosheim Rhodes, D. D.,	<i>St. Mark's Eng. Evan. Lutheran Church.</i>
December 21	Reverend Edmund Duckworth,	<i>St. James Protestant Episcopal Church.</i>
1904.		
January 4	Reverend Michael Burnham, D. D.,	<i>Pilgrim Congregational Church.</i>
January 11	Reverend Nathaniel Luccock,	<i>Union M. E. Church.</i>
January 18	Reverend Wm. R. McKittrick,	<i>First Presbyterian Church.</i>
February 1	Reverend James W. Lee,	<i>St. John's Church.</i>
February 8	Reverend W. W. Boyd, D. D.,	<i>Second Baptist Church.</i>
February 15	Dean Caroll M. Davis,	<i>Christ Church Cathedral.</i>

Chapel Choir

FIRST BASS

J. F. Gilster
 L. E. Eliot
 W. A. Heimbuecher
 F. L. English
 M. Schuyler

FIRST TENOR

B. W. Vaughn
 E. D. Paddock
 W. E. Bryan

SECOND TENOR

A. Baltzer
 H. B. Smith
 R. A. Campbell

SECOND BASS

Will Hall
 C. H. Briggs
 J. A. Stevens
 G. C. Stevens
 H. L. Reader

