



THE FACULTY



THEODORE R. WOLF, M. A., Ph. D.

Professor of Chemistry, Mineralogy, Geology and Sanitary Science.

Dr. Wolf was born at Edwardsville, Illinois, on September 17, 1850. He was graduated from Washington University, St. Louis, Mo., in 1868, receiving the degree of B. S. In 1870 he received the degrees of M. A. and Ph. D. from the University of Heidelberg. He is now Professor of Chemistry, Mineralogy, Geology and Sanitary Science in Delaware College and State Chemist of Delaware. Dr. Wolf is a member of the German Chemical Society, the Franklin Institute of Philadelphia, and the Phi Kappa Phi Fraternity.

FREDERIC H. ROBINSON, C. E.

Professor of Civil Engineering.

Professor Robinson was born at Wilmington, Del., August 28, 1850. His early education was received at home under the direction of his mother, in the Wilmington Public Schools, and later at the William A. Reynolds' Classical and Mathematical Institute, Wilmington, Del. After graduating he taught mathematics and English in the latter institute, and earned the money with which to pay his way through

college. In 1875 he was graduated from the Polytechnic College of the State of Pennsylvania with the degree of B. C. E., winning the prize for the best graduating thesis. In 1883 he received from the same college the degree of M. C. E. Since his graduation he has occupied the following positions: Assistant Engineer, Pittsburg Division of Pennsylvania Railroad; Assistant Professor and Professor of Mathematics, Polytechnic College; Draftsman, Edge Moor Bridge Works, Edge Moor, Del.; Assistant Engineer and Chief Engineer, Department of Engineering and Surveying, Wilmington, Del.; Instructor in the Wilmington Drafting School; member of the firm of Canby & Robinson, Civil Engineers and Surveyors, Wilmington, Del.; Assistant Engineer in the Corps of the Maryland Division P., B. & W. R. R.; since 1891 Professor of Civil Engineering, Delaware College, and since 1896, Secretary of the Faculty. He has written some verse, literary and scientific essays, and a portion of a text-book on surveying. He is a member of the Religious Society of Friends; Young Men's Republican Club of Wilmington (honorary); Alumni of Friends' School, Wilmington, and Delaware College; Phi Kappa Phi Fraternity; and the Society for the Promotion of Engineering Education.

ELISHA CONOVER, M. A.

Professor of Latin and Greek.

Professor Conover was born at Harrisonville, N. J., on August 14, 1860. After being prepared at Pennington Seminary, N. J., he entered Dickinson College, from which he was graduated in 1884, receiving the degree of B. A. In 1887 he received the degree of M. A. from the same college,

and in '87-'88 he took up graduate work at Johns Hopkins University. Professor Conover is a member of the Kappa Phi and Phi Kappa Phi Fraternities and the American Philological Society.

EDWARD LAWRENCE SMITH, M. A.

Professor of Modern Languages.

Professor Smith was born at Newark, Delaware, March 19, 1877. In 1892 he entered Delaware College, and was graduated in 1896 with the degree of B. A. During the years 1896-'98 he was a graduate student in Latin, German, French, Italian and Spanish at that college. He was University Scholar in Romance Philology, and student of the Romance Languages and Literatures and the Germanic Languages and Literatures at Columbia University in 1898-'99. The degree of M. A. was conferred on him by Delaware in 1899. In 1899-1900 he was University Fellow in Romance Philology and student of the above mentioned subjects at Columbia University. He was a student of Romance Philology and Literatures at L'Universite de Paris, College de France and Ecole des Hautes Etudes at Paris under MM. Gaston, Paris, Paul Meyer, Movet-Fatio, Antoine Thomas, Gustave Lanson and others, 1900-01. During 1901-02 he was Instructor in German, French and Spanish at Brooklyn Polytechnic Institute, and student of Old Provençal, Columbia University. In 1902 he was elected Instructor in Modern Languages at Delaware College, and in 1904 he was elected Professor of Modern Languages at that College, which position he now occupies. Professor Smith is a member of the Phi Kappa Phi and Kappa Alpha Fraternities.

MERRILL VAN GIESEN SMITH, M. E.

Professor of Mechanical and Electrical Engineering.

Professor Smith was born at Montclair, N. J., where he received his early education in the public schools. After graduating from the Stevens High School he entered the Stevens Institute of Technology, and was graduated in 1896 with the degree of M. E. Before coming to Delaware College in September, 1904, he held the following positions: Editorial Staff, Railroad Gazette; Instructor in Mechanical Engineering, University of Pennsylvania; Professor of Mechanical Engineering, Thomas S. Clarkson School of Technology. He is a member of the Phi Kappa Phi Fraternity.

CLINTON O. HOUGHTON, B. A.

Professor of Zoology and Entomologist in Experiment Station.

Professor Houghton was born at Helena, N. Y., April 7, 1873. He was prepared for college at the Potsdam State Normal School, from which he was graduated in June, 1898. The following September he entered Cornell University, from which in June, 1902, he was graduated with the degree of B. A. In 1902 he came to Delaware as Assistant Professor of Zoology, and in 1907 was made Professor of Zoology.

Professor Houghton is a member of the Sigma Xi, and Alpha Gamma Scientific Societies, the American Association of Economic Entomologists, the American Entomological Society, and the American Association for the Advancement of Science.

WILBUR OWEN SYPHERD, M. A., Ph. D.

Professor of English and Political Science.

Doctor Sypherd was born in Talbot County, Maryland. He prepared for college in the Snow Hill High School, Snow Hill, Md. In the spring of 1893 he entered Delaware College and was graduated in 1896 with the degree of B. A. From 1896 to 1898 he was principal of the Public Schools of Port Penn, Delaware. He entered the Junior Class of the University of Pennsylvania in 1898 and was graduated in 1900 with the degree of B. S. In 1901 he received the degree of M. A. from Harvard University. From 1901 to 1903 he was an instructor in English at the University of Wisconsin. In 1906 Harvard conferred the degree of Ph. D. on him. Since then he has held the chair of English and Political Science at Delaware. He is the author of two articles in American philological journals. One entitled "Chaucer's Eight Years' Sickness" appeared in Modern Language Notes in December, 1905; the other, entitled "Old French Influence on Middle English Phraseology," appeared in Modern Philology in July, 1907. He is also the author of "Studies in Chaucer's House of Fame," a book published in November, 1907, by the Chaucer Society of England.

HARRY HAYWARD, M. S. A.

Professor of Agriculture and Director of the Delaware Experiment Station.

Harry Hayward was born on a farm near Lewiston, Niagara County, New York, in 1869. He had the advantages of farm life and country schools until he was 17 years of age, when he entered the Mount Hermon School for Boys.

at Mount Hermon, Mass. He was graduated from this institution with the class of 1890, and at once entered the Agricultural College of Cornell University, receiving the degree of B. S. in Agriculture in 1894.

Three months before he was graduated he took charge of a large farm in northern Indiana, where he spent some time in putting the farm on a systematic basis. From Indiana he was called to take charge of an estate in northern Delaware, and from there he went to the Pennsylvania State College, where he organized the Dairy Department, and was at its head for eight years. Shortly after leaving Penn State, Professor Hayward was called to organize an Agricultural Department in his Alma Mater at Mount Hermon. He spent three years there, and had the satisfaction of leaving his work on a substantial foundation. In 1906 he was elected Director of the Delaware Experiment Station, and Professor of Agriculture in the College, which position he still holds.

In college Professor Hayward was a member of the Kappa Sigma Fraternity, and upon graduation was elected to the honorary society of Sigma Xi. While in Pennsylvania he was elected a member of the Agricultural Fraternity Alpha Zeta and to the Phi Kappa Phi. In 1901 he received the degree of M. S. in Agriculture from Cornell.

CLARENCE A. SHORT, M. S.

Assistant Professor of Mathematics and Civil Engineering.

Professor Short was born near Georgetown, Del., July 1, 1873. After receiving his preliminary education at the public schools, in September, 1889, he entered Delaware Col-

lege, where he remained one year. During the next three years he taught school near Laurel and at Shortley, Delaware. He re-entered Delaware in April, 1893, and was graduated in 1896, valedictorian of his class, with the degree of B. C. E. He has since occupied the following positions: Commandant of Cadets and Professor of Mathematics and History at Worthington Military School, Lincoln, Neb., 1896-'97; Professor of Civics, History and Higher Mathematics at Hortt's School for Boys, Burmingame, Cal., 1897-'98; Professor of Mathematics, Commercial Branches and Rhetoric at Fayetteville Military Academy, Fayetteville, N. C., 1898-'99; Principal of North Carolina Military Academy, Red Springs, N. C., where he taught mathematics and English; Instructor in Mathematics and Engineering, Delaware College, September, 1903, to March, 1904, when he was made Assistant Professor of Mathematics and Civil Engineering. In 1907 he was made Professor of Mathematics and Civil Engineering. In the summer of 1904 he took a special course in Mathematics and Civil Engineering at the University of the South, Sewanee, Tenn. In June, 1905, he received from Delaware College the M. S. degree. He is a member of the Phi Sigma Fraternity.

*LIEUT. EDGAR SIMON STAYER, 23rd Infantry, U. S. A.
Professor of Military Science and Commandant of Cadets.*

Lieutenant Stayer was born in Pennsylvania, November 7, 1875. He was graduated from Wittenburg College in 1894, and on May 11, 1898, was appointed second lieutenant in the Fifth Pennsylvania Volunteers. On July 13, 1899, he was appointed first lieutenant in the Twenty-eight Infantry,

United States Volunteers. From 1899 to 1901 he served in the Philippine Islands, and on July 25, 1901, he received his appointment as second lieutenant in the Twenty-third Infantry, United States Army. From 1902 to 1903 he was stationed at the Plattsburg, (N. Y.) Barracks, and April 2, 1902, he was promoted to first lieutenant in the same regiment. From 1903 to 1905 he was on the Island of Mindanao, and from 1905 to 1907 at Madison Barracks. While attending the Jamestown Exposition at Norfolk, Va., he was detailed to Delaware College.

CHARLES FRANCIS DAWSON, M. D., D. V. S.

Professor of Veterinary Science.

Professor Dawson was born near Easton, Md., in 1860. From 1873 to 1876 he was a student in the McDonogh School near Baltimore. From 1878 to 1889 he was laboratory curator in Johns Hopkins University. In 1889 he entered the Department of Medicine at the University of Maryland, studying at the Baltimore Medical College at the same time. In 1892 he received the degree of M. D. from the latter institution and was elected Chief of the Free Dispensary. He was Assistant in Bacteriology and Pathology in the United States Department of Agriculture from 1892 to 1900. At the same time he was Professor of Physiology and Secretary to the Faculty at the National Veterinary College at Washington, D. C., which institution conferred the degree of D. V. S. on him in 1895. He had charge of the national exhibits at the Chicago, Atlanta, Nashville and Omaha Expositions. In 1901 he went to the University of Florida, where until 1906 he was Professor of Veterinary Science and Physiol-

ogy; State Veterinarian of Florida, 1901-1907. He had charge of the War Department's experiments for the destruction of water hyacinths in St. John's River, Florida, in 1906. In 1907 he was elected to his present position as Professor of Veterinary Science at Delaware College and Veterinarian to the Experiment Station and to the Delaware State Board of Agriculture.

Dr. Dawson is a member of the Society of American Bacteriologists, Fellow of the United States College of Veterinary Surgeons, honorary member of the State Veterinary Associations of North Carolina and Georgia, and the author of many publications on veterinary scientific subjects.

CHARLES A. McCUE, B. S.

Professor of Horticulture,

Charles A. McCue was born at Cass City, Michigan, in 1879. He received his preparatory education at the Cass City High School. He entered the Michigan Agricultural College and in 1901 was graduated with the degree of B. S. Upon graduation he obtained a position in the United States Department of Forestry, in which capacity he worked in the States of New York, Maine, Tennessee, Texas and Arizona. In 1903 he resigned from the Department of Forestry to teach in the Michigan Agricultural College, taking post-graduate work there at the same time. He remained at Michigan Agricultural until 1907 when he was appointed to his present position at Delaware.

MELVILLE THURSTON COOK, A. M., Ph. D.

Professor of Botany and Plant Pathologist.

Doctor Cook was born at Coffeen, Illinois, September 20, 1869. He prepared for college at the Greencastle Preparatory School at Greencastle, Indiana. From 1890 to 1893 he was a student in De Pauw University and in 1894 he took the degree of A. B. at Leland Stanford Junior University. For one year after graduation he was principal of the high school at Vandalia, Illinois; Professor of Biology in De Pauw University, 1894-1904; chief and organizer of the Department of Plant Pathology and Economic Entomology of the Cuban Agricultural Experiment Station, Santiago de las Vagas, Cuba, 1904-06; Research Fellow in the New York Botanical Garden, 1906-07; Plant Pathologist in the Delaware Agricultural Experiment Station and Professor of Botany in Delaware College, 1907; spent three summers in study in Marine Biological Laboratory at Woods Holl, Mass.; two summers in the University of Chicago and two summers in the Ohio Lake Laboratory at Sandusky; Fellow in the Ohio State University, 1901-02; received A. M. degree from De Pauw in 1901, and Ph. D. from Ohio State in 1904; Special Lecturer in Human Embryology in the Central College of Physicians and Surgeons, Indianapolis, 1902-03; Special Lecturer in Comparative Anatomy in Medical College of Indiana, Indianapolis, 1903-04. Doctor Cook is a member of the Delta Upsilon Fraternity and the Sigma Xi honorary graduate fraternity; he is also a member of the Botanical Society of America, the Entomological Society of America and the Association of Economic Entomologists. He is a fellow in the Indiana Academy of Science and the

American Association for the Advancement of Science, and contributes to the Botanical Gazette, Bulletin of the Torrey Botanical Club, Ohio Naturalist, Torreya, Plant World, etc.

ARTHUR ELLIOTT GRANTHAM, A. B., B. S. A.

Professor of Agronomy.

Professor Grantham was born June 1, 1878, at Ladoga, Indiana. He was reared on a farm and prepared for college at the La Fayette (Ind.) High School. He entered the University of Indiana, and in 1903 was graduated with the degree of A. B. From 1898-1900 he was a student at the De Pauw University and from 1900 to 1901 and 1902-03 he was assistant principal in the Stockwell, Indiana, High School. During the year 1903-04 he was a student in the College of Agriculture, University of Illinois; 1904-05 Assistant in Agriculture, Missouri Agricultural College and Experiment Station; in 1905 he received the degree of B. S. A. from the University of Missouri; from 1905 to 1907 he was Instructor in Agronomy at the University of Missouri and Assistant in Agronomy at the Missouri Experiment Station. In 1907 he came to Delaware as Professor of Agronomy and Agronomist to the Experiment Station. He is a member of the Phi Kappa Psi Fraternity and the Alpha Zeta honorary agricultural fraternity.

REV. WILLIAM J. ROWAN, A. M., Ph. D.

Professor of Rhetoric and Oratory.

Dr. Rowan was born in Philadelphia and received his early education at the public schools of Chester, Pa. In 1891 he was graduated from Lafayette College with the degree

of A. B. In 1894 he received from the same college the A. M. degree. He entered the Theological Seminary at Princeton, graduating in 1894. He became pastor of the Broadway Presbyterian Church, of Baltimore on June 17, 1894. In September, 1899, he accepted the call to the Newark Presbyterian Church. In 1902 he was elected to the position of Instructor in Philosophy and Oratory in Delaware College. In 1907 he was promoted to the Professorship of Rhetoric and Oratory, which position he now holds in connection with his pastoral duties. While in Baltimore he studied under Hon. W. H. Purnell, L.L. D., for many years President of Delaware College and at that time President of New Windsor College. Dr. Rowan presented and defended a thesis on Francis Audria and the Precursors of the Protestant Reformation, besides being examined on history in general and the mythologies of Greece and Rome, receiving the degree of Ph. D.

LEWIS ALFRED FREUDENBERGER, E. E.

Assistant Professor in Mechanical and Electrical Engineering.

Professor Freudenberger was born in Pennsylvania, January 23, 1881, and received his early education at the Bethlehem High School. He prepared for college at the Moravian Preparatory School. In 1901 he was graduated with the degree of E. E., from Lehigh University, where he held the position of Instructor in the Department of Physics and Electrical Engineering before coming to Delaware in 1904. Professor Freudenberger is a member of the American Physical Society, associate member of the American Institute of Electrical Engineers and a member of the Tau Beta Pi Fraternity.

HERBERT S. JACKSON, A. B.

Instructor in Botany.

Mr. Jackson was born at Augusta, N. Y., August 29, 1883. He was graduated from the Ithaca High School, Ithaca, N. Y., in 1901, and entered Cornell University, from which he was graduated in 1905 with the degree of A. B. On September 1, 1905, he was elected to his present position of Assistant Mycologist of the Delaware College Experiment Station and Instructor in Botany at Delaware College.

HAROLD EDWARD TIFFANY, B. S.

Instructor in Chemistry.

Mr. Tiffany was born November 14, 1879. After having prepared for college at Wilkesbarre Public School and at the Keystone Academy, Factoryville, Pa., he entered Bucknell University, and in four years was graduated with the degree of B. S., *Magna cum Laude*, in Chemistry, winning the Hallopeter prize in chemistry. He spent the following autumn and winter at Harvard University, doing advanced work in chemistry and research. Before taking up his present position at Delaware in the winter of 1905, he taught for a while in the Everett High School near Boston. He is a member of the Sigma Phi Epsilon Fraternity.

WILLIAM VAUGHAN DERBY, B. M. E.

Instructor in Shop-work.

Mr. Derby was born at Woodside, Delaware, on May 15, 1884. He attended the public schools there until 1899 when he entered the Junior Class of the Dover High School; was

graduated in 1901. He attended the Wilmington Conference Academy at Dover in 1901-02. In 1902 he entered Delaware College. In the summer of 1905 he was employed first by the International Power and Vehicle Company, builders of kerosene oil motors, at Stamford, Conn. When this concern shut down he found employment with the Ball Manufacturing Company, of the same city, which firm finished motors for the Lozier Motor Company. In June, 1906, Mr. Derby was graduated from Delaware with the degree of B. M. E. He at once obtained employment with the Stevens-Duryea Automobile Company at Chicopee Falls, Mass., where he remained until appointed to his present position in the fall of 1907.

STANLEY P. SHUGERT, B. A.

Instructor in English and Mathematics.

Mr. Shugert was born at Berryville, Va., December 21, 1885. In 1901 he was graduated from the Charlestown (W. Va.) High School, and in 1902 from the Charlestown Academy. In 1902 he entered Roanoke College and was graduated in June, 1905. From 1906 to 1908 he was a graduate student at the University of Pennsylvania, holding the Harrison Scholarship in Mathematics in 1906-07 and a University Scholarship in Mathematics in 1907-08.

HERBERT JAMES WATSON.

Bacteriologist and Pathologist.

Herbert James Watson was born in Wilmington, Delaware, October 12, 1879. He received his preliminary education in the private and public schools of Wilmington, at the

same time studying drawing and painting for four years at night at the Hammitt School of Art, also at Wilmington.

In 1896 he began the apprenticeship in the drug business with his father, Herbert Kennedy Watson. Having some knowledge of chemistry and desiring more he took up the study under Professor Trimble at the Philadelphia College of Pharmacy. He then spent a year with Professor Fetteroff, at the University of Pennsylvania, studying chemistry as applied to the study of medicine. Water, blood and toxicological examinations were specialized on to great advantage.

In 1898 he entered the regular course of pharmacy and chemistry at the Philadelphia College of Pharmacy, and after three years was graduated as Doctor of Pharmacy in 1901, also receiving the degree of Doctor of Bacteriology from the same institution. After graduation he became assistant to Professor Chester and Doctor Robin in the State Board of Health Laboratory at Delaware. In 1903 he resigned this position and was made Assistant Professor in Bacteriology, Botany and Pharmacognosy in the Philadelphia College of Pharmacy. In 1906 he was called by the State Board of Health to fill temporarily the position of State Bacteriologist. On April 1, 1907, he was appointed Bacteriologist and Pathologist to succeed Professor Chester.



