

LIST OF MEMBERS OF THE AMERICAN PHARMACEUTICAL ASSOCIATION
ENJOYING A DAY IN DENVER.

- 1, A. Bolenbaugh, Richmond, Va.; 2, R. H. McKenzie, Denver, Colo.; 3, Frank H. Spiller, Gardner, Ill.; 4, H. Engelhardt, Baltimore, Md.; 5, F. B. Haymaker, Wheeling, W. Va.; 6, F. L. McCartney, New York, N. Y.; 7, C. D. Charles, Denver, Colo.; 8, Miss Ruth Mahnke, Sioux City, Ia.; 9, J. W. England, Philadelphia, Pa.; 10, Miss Gertrude Scherling, Sioux City, Ia.; 11, W. G. Gaessler, Ames, Ia.; 12, Dr. Joseph Weinstein, New York, N. Y.; 13, W. F. Thebus, Denver, Colo.; 14, Mrs. W. C. Alpers, Cleveland, O.; 15, Robert Lehman, New York, N. Y.; 16, I. C. Arledge, Omaha, Neb.; 17, Mayer Mishkin, New York, N. Y.; 18, Julius A. Koch, Pittsburgh, Pa.; 19, Mrs. Robert J. Wetzlar, Peoria, Ill.; 20, Mrs. Robert Zimmerman, Peoria, Ill.; 21, Miss Gretchen Zimmerman, Peoria, Ill.; 22, H. C. Christensen, Chicago, Ill.; 23, E. T. Boden, Bay City, Mich.; 24, E. G. Eberle, Dallas, Texas; 25, Martin Larson, Callender, Ia.; 26, Charles J. Clayton, Denver, Colo.; 27, H. E. Hepner, Denver, Colo.; 28, Joseph P. Remington, Philadelphia, Pa.; 29, Wilbur L. Scoville, Detroit, Mich.; 30, W. B. Day, Chicago, Ill.; 31, W. A. Hover, Denver, Colo.; 32, Edward L. Scholtz, Denver, Colo.; 33, Mrs. H. M. Whelpley, St. Louis, Mo.; 34, Dr. H. M. Whelpley, St. Louis, Mo.; 35, Gustav Scherling, Sioux City, Ia.; 36, Dr. James H. Beal, Urbana, Ill.; 37, J. G. Godding, Boston, Mass.; 38, Mrs. W. C. Anderson, Brooklyn, N. Y.; 39, Mrs. F. B. Haymaker, Wheeling, W. Va.; 40, F. W. Nitardy, Denver, Colo.; 41, Mrs. Lincoln Wilson, Denver, Colo.; 42, W. C. Anderson, Brooklyn, N. Y.; 43, Mrs. J. G. Godding, Boston, Mass.; 44, Mrs. Wilbur L. Scoville, Detroit, Mich.; 45, Mrs. Thomas D. Gregg, Harrisburg, Ill.; 46, Miss Kittie Ramey, East St. Louis, Ill.; 47, J. H. Beal, Urbana, Ill.; 48, Thomas D. Gregg, Harrisburg, Ill.; 49, Dr. A. H. Vordick, St. Louis, Mo.; 50, Mrs. Vordick, St. Louis, Mo.; 51, Dr. W. C. Alpers, Cleveland, O.; 52, Mrs. Otto F. Claus, St. Louis, Mo.; 53, Seward W. Williams, Chicago, Ill.; 54, Mrs. J. H. Robitschek; 55, Miss Catherine H. Taylor, Richmond, Va.; 56, Dr. John L. Turner, Brooklyn, N. Y.; 57, Miss Nannie Vaden, Richmond, Va.; 58, Mrs. W. B. Day, Chicago, Ill.; 59, S. M. Scott, Jr., Terra Alta, West Va.; 60, Mrs. R. H. McKenzie, Denver, Colo.; 61, Mrs. Gustav Scherling, Sioux City, Ia.; 62, Dr. W. F. Rudd, Richmond, Va.; 63, Lincoln Wilson, Denver, Colo.; 64, S. T. Hensel, Denver, Colo.; 65, C. D. Charles, Denver, Colo.; 66, Frank Lord, Denver, Colo.; 67, Mrs. F. P. Thaman, Denver, Colo.

Unfortunately the numbers on and about the individuals did not come out distinctly in the reduction of the photograph. However, a sufficient number are distinct, so the names can be traced. The photograph was loaned by Mr. S. M. Scott, Jr., and the names were supplied by ex-President Caswell A. Mayo.



Members of the party on the "A. Ph. A. Spectal," while enjoying the hospitalities of Denver members of the American Pharmaceutical Association in the city situated "a mile high." Names on reverse side of this illustration.

FREDERICK JOHN WULLING.*

Frederick J. Wulling, President-elect of the American Pharmaceutical Association, is a native of Brooklyn, New York, where he was born in 1866. His father was an architect by profession. When he was four years old his father's family took up their permanent residence in what had been their summer home in Carlstadt, New Jersey, a suburb of the American metropolis, and there the son obtained his schooling in the grades, the high school and under private house tutors. He received business training in New York City during the last year at high school and during the succeeding year.

The young man's ambition pointed his way to college work and to a professional education. In 1884 he accepted a position with college privileges with Dr. C. W. Braeutigam, taking up the study of medicine, giving part of his time also to translating from German, French, Spanish and Italian technical journals. Soon he showed great proficiency in pharmacy, to which he subsequently gave most of his attention, and to such end that he had passed the senior examinations in pharmacy and its allied branches before the examining boards of New York and Brooklyn and of New Jersey when he was graduated from the New York College of Pharmacy in 1887. His leadership is indicated by the fact that he won by competitive examination a senior scholarship, and that he was graduated at the head of his class, receiving the gold medal and an analytical balance for supremacy, and from another source one hundred dollars in gold for high scholarship. Meanwhile, he had been attending lectures at the College of Physicians and Surgeons of Columbia University, though not as a regular matriculate. In addition to his scholarship honors the young student was also, for the last year of his course in the College of Pharmacy, a lecture assistant to Professor P. W. Bedford. In 1887 he was elected to a full instructorship, and the course of his life was definitely laid out.

In 1890 he was made assistant professor of pharmacy in the college from which he had been graduated, and the next year he was made professor of inorganic pharmaco-diagnosis in the Brooklyn College of Pharmacy, and he remained in this position until he was called to the deanship of the College of Pharmacy which he was to establish in the University of Minnesota. Meanwhile, he was becoming known in the universities of the Old World. Immediately after his graduation in 1887 he made a tour of Europe, visiting the principal seats of learning on the continent, among them, Munich, Berlin, Goettingen and Paris. Then he returned to America and took up further post-graduate work in the Hoagland Laboratory of Bacteriology with Doctor Lennox. Two years later, in 1889, he went again to Europe on a study and observation trip studying especially the methods of teaching chemistry in the leading German universities.

The name of Frederick J. Wulling will always be inseparably linked with that of the College of Pharmacy in the University of Minnesota for it was he who organized the college as a distinctive department in 1892, and from the beginning of the department was its dean. Before he was called by the Board of Regents of the University to that institution, Mr. Wulling was already widely known as an authority in his subjects, and was recognized as one of the foremost men of his profession as a student and devotee of research work. He has added immeasurably to that reputation since his connection with the University and has brought honors to his college. During the first five years of his connection with the University he received the degrees of Ph.M., LL.B. and LL.M. This in addition to the degree of Ph.G. He is well known abroad as well as at home, having again made tours of European university cities and research centers, notably those of Scotland, England, France, Belgium, Germany and Austria in 1893, 1896 and 1911.

In 1911 Dean Wulling was sent as a representative of the University of Minnesota to European seats of learning to study their botanical and medicinal gardens preparatory to establishing a similar garden at the University of Minnesota soon after.

His University title is "Dean of the Faculty, Professor of Pharmacology and Director of

* The source of information for this sketch is a "Compendium of History and Biography of Minneapolis and Hennepin County, Minnesota."

the University Medicinal Plant Garden." He is also a member of the University Administrative Committee and of the University Senate.

He has been and is now a frequent contributor to scientific journals, and has published a great number of papers and essays as well as several large works, which include his "Evolution of Botany," his "Medical and Pharmaceutical Chemistry," his "Experiments for Beginners," his "Chemistry of the Carbon Compounds," and other technical works of his profession, with a "Course in Law for Pharmacists."

Dean Wulling is a member of a number of scientific societies, in which he is known as a prosecutor of much original research work. He has been president of the Northwestern Branch of the American Pharmaceutical Association; he is chairman of the Scientific Section of the Minnesota State Pharmaceutical Association since 1904 to date; he has been an executive officer of the American Conference of Pharmaceutical Faculties and in 1914 to 1915 was its president. In addition he has taken an active part in the work of the executive officers of the University of Minnesota; fellow American Association for the Advancement of Science; member of the American Pharmaceutical Association, of the American Conference of Pharmaceutical Faculties, University Club and Campus Club; vice president of the Minnesota Academy of Sciences since 1909 to date; honorary member of the Phi Delta Chi, and one of the Board of Directors of the Minneapolis Society of Fine Arts from 1902 to 1911.

In 1897 Dr. Wulling was married to Miss Lucile Truth Gissel, of Brooklyn, New York. A son, Emerson G., was born in 1903.

DETERMINATION OF ACETONE IN URINE.

After the addition of some drops of hydrochloric acid, 200-250 mls of urine are distilled into a 50-mil flask. To the distillate are added potassium hydroxide and a solution of iodine in potassium iodide. The iodoform is collected on a filter, washed carefully, and boiled with fuming nitric acid and some crystals of silver nitrate in a flask with a cooler. The liquid is diluted with water and filtered. The silver iodide is dissolved in dilute ammonia and reprecipitated with nitric acid, filtered, and washed. The precipitate is brought into a crucible, the filter washed in a platinum spiral, and the ash added to the silver iodide. Some drops of nitric acid are added, and material glowed carefully. By multiplying the quantity of silver iodide by 0.1171 the quantity of acetone can be found—*(Pharm. Zth.: through Pharmaceutical Journal.)*