

Van Slyke (Donald D.) papers

This finding aid was produced using ArchivesSpace on August 22, 2016.

Rockefeller Archive Center

15 Dayton Avenue Sleepy Hollow 10591

archive@rockarch.org

URL: http://www.rockarch.org

Table of Contents

Summary Information	3
Biographical/Historical note	3
Scope and Contents note	14
Arrangement	15
File Plan note	15
Administrative Information	15
Controlled Access Headings	16
Collection Inventory	16

Summary Information

Repository: Rockefeller Archive Center

Creator - aut: Van Slyke, Donald D. (Donald Dexter)

Title: Donald D. Van Slyke papers, Rockefeller University Faculty

ID: FA203

Date [inclusive]: undated

Physical Description: 10 Cubic Feet 10 boxes, 4 packages. Volume is approximate

Language of the English

Material:

Preferred Citation

Information regarding the Rockefeller Archive Center's preferred elements and forms of citation can be found at http://www.rockarch.org/research/citations.php

Biographical/Historical note

Donald Dexter Van Slyke, 1883-1971, biological chemist at The Rockefeller Institute for Medical Research from 1907 to 1948 when he became Emeritus and worked at Brookhaven National Laboratory until his death in 1971.

His work was chiefly in the chemistry of proteins and protein derivatives and their role in physiology, pathology, enzyme action, blood chemistry and the metabolic conditions of diabetes and nephritis. Coauthor with Peters of 2 volumes "Qualitative Clinical Chemistry".

Biographical note	
1883	Born March 29, Pike, New York
1901-1902	Hobart College, Geneva, New York

[^] Return to Table of Contents

1905	A.B. University of Michigan, Ann Arbor, Michigan
1907	Ph. D. University of Michigan
1907-1908	Rockefeller Institute for Medical Research, New York Fellow in Chemistry with P.A.T. Levene
1908-1911	RIMR Assistant in Chemistry
1911	University of Berlin, studied with Emil Fischer
1912-1914	RIMR Associate Member
1914-1920	RIMR Hospital Associate Member, Chief chemist
1917	Visiting Professor University of California
1920-1948	RIMR Hospital Member
1922-1923	Visiting Professor Peking Medical College
1948-1971	Member Emeritus RIMR
1949-1951	Brookhaven National Laboratory, Asst. Dir. for Research in Biology and Medicine
1951-1971	Brookhaven National Laboratory, Research Chemist
1971	Died May 4, Garden City, New York

Honorary degrees	
1925	Sc. D. Yale University
1935	Sc. D. University of Michigan
1938	M.D. University of Oslo

1940	Sc. D. Northwestern University
1941	Sc. D. University of Chicago
1951	Sc. D. University of London
1962	M.D. University of Amsterdam
1966	Sc. D. Rockefeller University
1970	M.D. University of Ulm

Awards	
1936	Charles Mickle Fellowship. University of Toronto
1936	Phillip A. Conne Medal. Chemist's Club of New York
1939	Willard Gibbs Medal. Chicago Section American Chemical Society
1939	Order of the Jade Republic of China
1942	Kober Medal. Association of American Physicians
1947	Order of the Brilliant Star. Republic of China
1953	Fisher Award in Analytical Chemistry. American Chemical Society
1954	John Phillips Memorial Award. American College of Physicians
1957	Van Slyke Award in Clinical Chemistry. 1st - American Association of Clinical Chemists
1962	Scientific Achievement Award. 1st - American Medical Association

1964	Ames Award. American Association of Clinical Chemistry
1965	National Medal of Science. U.S.A.
1965	Elliott Cresson Award. Franklin Society of Philadelphia
1966	Medal. New York Academy of Medicine

Served:	
1914-1924	Managing Editor Journal of Biological Chemistry
1940-1947	American Bureau for Medical Aid to China/ President
1949	First International Congress of Biochemistry, Cambridge, Eng Honorary Vice-President
1951-1956	Counselor Eli Lilly Research Grants
1957	International Congress of Clinical Chemistry, Stockholm Honorary President
1969	Seventh Congress of Clinical Chemistry, Geneva, Switzerland Honorary President

Member of: National Academy of Sciences, American Philosophical Society, American Academy of Arts and Sciences, Rudolf Virchow Medical Society in NYC, American College of Cardiology (honorary), American Society of Biological Chemists (President 1920-1922), Harvey Society (President 1927-1928), American Chemical Society, Association of American Physicians, Sigma Xi, Beta Theta Pi, Society of Experimental Biology

Honorary Member of: Soc. Chem. Biol. (Italian), Deutsche Akademie der Naturforscher, Societa Lombarda di Medicina, Academy of Science of India, Society of Biological Chemists of India, Royal Society of Sciences of Uppsala, Danish Society for Internal Medicine, Société de Pathologie Rénale, Società Italiana di Biologia Sperimentale, Association of Clinical Biochemists (Britain), Accademia Nazionale dei Lincei (Italian), Danish Academy

[^] Return to Table of Contents

Bibliography

Papers Van Slyke, D.D. and Van Slyke, L.L. The action of dilute acids upon casein when no soluble compounds are formed. NY Agr Exper Sta 3: 79 (1906); Amer Chem J 38: 383 (1907).

Gomberg, M. and Van Slyke, D.D. The action of molecular silver, of silver sulfate and chloride, and of sulfuric acid upon halogenated derivatives of triphenylcarbinolchloride. J Amer Chem Soc 33: 531 (1907).

Van Slyke, D.D. and Van Slyke, L.L. Absorption of acids by casein. J Biol Chem 4: 259 ' (1908).

Levene, P.A. and Van Slyke, D.D. Zür Methodik der Destination der Amino-aaurenester mittles der Geryk-Pumpe. Biochem Z 10: 214 (1908).

Levene, P.A. and Van Slyke, D.D. Hydrolyse von Wittepepton. Biochem Z 13: 440 (1908).Levene, P.A. and Van Slyke, D.D. Ueber Plastein. Biochem Z 13: 458 (1908).

Levene, P.A. and Van Slyke, D.D. Ueber Plastein. II. Biochem Z 14: 203 (1909).

Van Slyke, D.D. Clavin, Vahlen's active constituent of ergot. J Pharmacol Exp Ther 1: 265 (1909).

Levene, P.A. and Van Slyke, D.D. The leucin fraction of proteins. J Biol Chem 6: 391 (1909).

Levene, P.A. and Van Slyke, D.D. The leucin fraction in casein and edestin. J Biol Chem 6: 419 (1909).

Levene, P.A., Van Slyke, D.D. and Birchard, P.J. The partial hydrolysis of proteins. II. On Fibrinheteroalbumose. J Biol Chem 8: 269 (1910).

Van Slyke, D.D. Eine Methode zür quantitativen Bestimmung der alipha-tischen Aminogruppen; einige Anwenungen derselben in der Chemi der Proteine, des Harns und der Enzyme. Ber d Deutsch Chem Gesellsch 43: 3170 (1910).

Levene, P.A. and Van Slyke, D.D. Note on insoluble lead salts of amino acids. J Biol Chem 8: 285 (1910).

Fischer, E. and Van Slyke, D.D. Ueber einige Verwandlung der - Pyrrol-carbonsaure. Ber Deutsch Chem Gesellsch 44: 3166 (1911).

Van Slyke, D.D. A method for quantitative determination of aliphatic amino groups. Applications to the study of proteolysis and proteolytic products. J Biol Chem 9: 185 (1911).

Van Slyke, D.D. The analysis of proteins by determination of the chemical groups characteristic of the different amino acids. J Biol Chem 10: 15 (1911).

Abderhalden, E. and Van Slyke, D.D. Die Bestimmung des Aminostickstoffs in einigen Polypeptiden nach der Methode von Van Slyke.

Zeits f Physiol Chem 74: 505 (1911). Van Slyke, D.D. and White, G.F. Digestion of protein In the stomach and intestine of the dogfish. J Biol Chem 9: 209 (1911).

Van Slyke, D.D. and White, G.F. The relation between the digestibility and the retention of ingested proteins. J Biol Chem 9: 219 (1911).

Levene, P.A. and Van Slyke, D.D. Picrolonates of the monoamino acids. J Biol Chem 12: 127 (1912). Van Slyke, D.D. The quantitative determination of aliphatic amino broups. II. J Biol Chem 12: 275 (1912).

Levene, P.A. and Van Slyke, D.D. Gasometric determination of free and conjugated amino acids in the urine. J Biol Chem 12: 301 (1912).

Levene, P.A. and Van Slyke, D.D. The composition and properties of glycocoll picrate and the separation of glycocoll from alanine. J Biol Chem 12: 285 (1912).

Van Slyke, D.D. and Meyer, G.M. The amino-acid nitrogen of the blood. Preliminary experiments on protein assimilation. J Biol Chem 12: 399 (1912).

Van Slyke, D.D. The gasometric determination of aliphatic amino nitrogen in minute quantities. J Biol Chem 16: 121 (1913).

Levene, P.A. and Van Slyke, D.D. The separation of d-alanine and à-valine. J Biol Chem 16: 103 (1913).

Van Slyke, D.D. Improved methods in the gasometric determination of free and conjugated amino-acid nitrogen in the urine. J Biol Chem 16: 125 (1913).

Van Slyke, D.D. The fate of protein digestion products in the body. II. Determination of amino nitrogen in the tissues. J Biol Chem 16: 187 (1913).

Van Slyke, D.D. and Meyer, G.M. The fate of protein digestion products in the body. III. The absorption of amino acids from the blood by the tissues. J Biol Chem 16: 197 (1913).

Van Slyke, D.D. and Meyer, G.M. The fate of protein digestion products in the body. IV. The locus of chemical transformation of absorbed amino acids. J Biol Chem 16: 213 (1913).

Van Slyke, D.D. and Meyer, G.M. The fate of protein digestion products in the body. V. The effects of feeding and fasting on the amino-acid content of the tissues. J Biol Chem 16: 231 (1913).

Auer, J. and Van Slyke, D.D. A contribution to the relation between protein cleavage products and anaphylaxis. J Exp Med 18: 210 (1913).

Van Slyke, D.D. and Cullen, G.E. The mode of action of urease and of enzymes in general. J Biol Chem 19: 141 (1914).

Van Slyke, D.D. and Zacharias, G. The effect of hydrogen-ion concentration and of inhibiting substances on urease. J Biol Chem 19: 181 (1914).

Van Slyke, D.D. and Cullen, G.E. A permanent preparation of urease and its use in the determination of urea. J Biol Chem 19: 211 (1914).

Bilis, A., Cullen, G. and Van Slyke, D.D. The amino acid content of the blood and spinal fluid of syphilitic and nonsyphilitic individuals. JAMA 64: 126 (1915).

McLean, F.C. and Van Slyke, D.D. A method for the determination of chlorides in small amounts of body fluids. J Biol Chem 21: 361 (1915).

McLean, F.C. and Van Slyke, D.D. A method for the titration of small amounts of halides. J Amer Chem Soc 37: 1128 (1915).

Van Slyke, D.D., Courtney, A.M. and Fales, H.L. Forms of nitrogen in the stools of infants. Amer J Pis Child 9: 533 (1915).

Levin, T. and Van Slyke, D.D. Results of applying a quantitative method to the Abderhalden serum test for cancer. JAMA 65: 945 (1915).

Van Slyke, D.D. Improvements in the method for analysis of proteins by determination of the chemical groups characteristic of the different amino acids. J Biol Chem 22: 281 (1915).

Osborne, T.B., Van Slyke, D.D., Leavenworth, D.S. and Vinograd, M. Some products of the hydrolysis of gliadin, lact-albumin, and the protein of the rice kernel. J Biol Chem 22: 259 (1915).

Van Slyke, D.D. Analysis of proteins by determination of the chemical group characteristic of the different amino acids.. J Biol Chem 23: 411 (1915).

Van Slyke, D.D., Vinograd-Villchur, M. and Losee, J.R. The Abderhalden reaction. J Biol Chem 23: 377 (1915).

Van Slyke, D.D. Note on the micro method for gasometric determination of aliphatic amino nitrogen. J Biol Chem 23: 407 (1915).

Van Slyke, D.D., Stillman, E. and Cullen, G.E. The nature and detection of diabetic acidosis. Proc Soc Exp Biol Med 12: 165 (1915).

Van Slyke, D.D. and Cullen, G.E. The determination of urea by the urease method. J Biol Chem 24: 117 (1916).

Van Slyke, D.D., Losee, J.R. and Vinograd-Villchur, M. A quantitative test of the Abderhalden reaction. Amer J Obs Dis Women Child 63: 1 (1916).

Van Slyke, D.D. The present significance of the amino acids in physiology and pathology. Arch Intern Med 19: 56 (1917).

Van Slyke, D.D. The determination of oxygen in blood. Proc Soc Exp Med 14: 84 (1917).

Losee, J.R. and Van Slyke, D.D. The toxemias of pregnancy. Amer J Med Sci 153: 94 (1917).

Van Slyke, D.D. and Cullen, G.E. The mode of action of urease and of enzymes in general. J Biol Chem 28: 391 (1917).

Lundsgaard, C. and Van Slyke, D.D. Studies of lung volume. Trans Ass Amer Phys Surg 32: 404 (1917).

Van Slyke, D.D. and Cullen, G.E. Studies of acidosis. I. The bicarbonate concentration of the blood plasma; its significance and its determination as a measure of acidosis. J Biol Chem 30: 289 (1917).

Van Slyke, D.D. Studies of acidosis. II. A method for the determination of carbon dioxide and carbonates in solution. J Biol Chem 30: 347 (1917).

Cullen, G.E. and Van Slyke, D.D. Studies of acidosis. III. The electrometric titration of plasma as a measure of its alkaline reserve. J Biol Chem 30: 369 (1917).

Fitz, R. and Van Slyke, D.D. Studies of acidosis. IV. The relationship between alkaline reserve and acid excretion. J Biol Chem 30: 389 (1917).

Van Slyke, D.D., Stillman, E. and Cullen, G.E. Studies of acidosis. V. Alveolar carbon dioxide and plasma bicarbonate in normal men during digestive rest and activity. J Biol Chem 30: 401 (1917).

Stillman, E., Van Slyke, D.D., Cullen, G.E. and Fitz, R. Studies of acidosis. VI. The blood, urine, and alveolar air in diabetic acidosis. J Biol Chem 30: 405 (1917).

Van Slyke, D.D. Studies of acidosis. VII. The determination of #-hydroxybutyric acid, acetoacetic acid, and acetone in urine. J Biol Chem 32: 455 (1917).

Van Slyke, D.D. and Fitz, R. Studies of acidosis. VIII. The determination of #-hydroxybutyric acid, acetoacetic acid, and acetone in blood. J Biol Chem 32: 495 (1917).

Palmer, W.W. and Van Slyke, D.D. Studies of acidosis. IX. Relationship between alkali retention and alkali reserve in normal and pathological individuals. J Biol Chem 32: 499 (1917).

Lundsgaard, C. and Van Slyke, D.D. Studies of lung volume. I. Relation between thorax size and lung volume in normal adults. J Exp Med 27: 65 (1918).

Garvin, A., Lundsgaard, C. and Van Slyke, D.D. Studies of lung volume. II. Tuberculous men. J Exp Med 27: 87 (1918).

Garvin, A., Lundsgaard, C. and Van Slyke, D.D. Studies of lung volume III. Tuberculous women. J Exp Med 27: 129 (1918).

Van Slyke, D.D. Gasometric determination of the oxygen and hemoglobin of blood. J Biol Chem 33: 127 (1918).

Van Slyke, D.D. Studies of acidosis. X. J Biol Chem 33: 271 (1918).

Whipple, G.H. and Van Slyke, D.D. Proteose intoxications and injury of body protein. J Exp Med 28: 213 (1918).

Van Slyke, D.D. Studies of acidosis. XI. The determination of carbon dioxide in carbonates. J Biol Chem 36: 351 (1918).

Van Slyke, D.D. and Palmer, W. Titration of organic acid in urine. Proc Soc Exp Biol Med 16: 140 (1919).

Van Slyke, D.D. and Stillman, E. Excretion of urea. Proc Soc Exp Biol Med 17: 59 (1919).

Van Slyke, D.D. and Donleavy, J. A simplification of the McLean-Van Slyke method for determination of plasma chlorides. J Biol Chem 37: 551 (1919).

Van Slyke, D.D., Stillman, E. and Cullen, G.E. Studies of acidosis. XIII. A method for titrating the bicarbonate content of the plasma. J Biol Chem 38: 167 (1919).

Van Slyke, D.D. and Fitz, R. The determination of #-hydroxybutyric acid, acetoacetic acid, and acetone in blood. J Biol Chem 39: 23 (1919).

Hiller, A. and Van Slyke, D.D. Direct determination of non-amino nitrogen in the products of protein hydrolysis. J Biol Chem 39: 470 (1919).

Van Slyke, D.D. and Salvesen, H.A. The determination of carbon monoxide in blood. J Biol Chem 40: 103 (1919).

Stadie, W.C. and Van Slyke, D.D. Studies of acidosis. XV. Carbon dioxide. content and capacity in arterial and venous blood plasma. J Biol Chem 41: 191 (1920).

Van Slyke, D.D. Chemistry of proteins. Chap. V Oxford System of Medicine 1: 251 (1920).

Austin, J.E. and Van Slyke, D.D. Determination of chlorides in whole blood. J Biol Chem 41: 345 (1920).

Van Slyke, D.D. and Palmer, W.W. Studies of acidosis. XVI. The titration of organic acids in urine. J Biol Chem 41: 567 (1920).

Cullen, G.E. and Van Slyke, D.D. Determination of the fibrin, globulin, and albumin nitrogen of blood plasma. J Biol Chem 41: 587 (1920).

Stadie, W.C. and Van Slyke, D.D. The effect of acute yellow atrophy on metabolism and on the composition of the liver. Arch Intern Med 25: 693 (1920).

Van Slyke, D.D. The carbon dioxide carriers of the blood. Physiol Rev 1: 141 (1921).

Austin, J.H. and Van Slyke, D.D. The determination of chlorides in blood plasma. J Biol Chem 45: 461 (1921).

Austin, J.H., Stillman, E. and Van Slyke, D.D. Factors governing the excretion rate of urea. J Biol Chem 46: 91 (1921).

Van Slyke, D.D. and Binger, C.A.L. The determination of lung volume without forced breathing. Proc Soc Exp Biol Med 18: 141 (1921).

Van Slyke, D.D. Studies of acidosis. XVII. The normal and abnormal variations in the acid-base balance of the blood. J Biol Chem 48: 153 (1921).

Van Slyke, D.D. and Stadie, W.C. The determination of the gases of the blood. J Biol Chem 49: 1 (1921).

Van Slyke, D.D. and Hiller, A. An unidentified base among the hydrolytic products of gelatin. Proc Nat Acad Sci USA 7: 185 (1921).

Van Slyke, D.D. An apparatus for determination of the gases in blood and other solutions. Proc Nat Acad Sci USA 7: 299 (1921).

Van Slyke, D.D. Die Analyse von Eiweisskörpern durch Bestimmung der chemisch charakteristischen Grüppen der verschiedenen Aminosäuren. Abderhalden's Hand d biol Arbeit Abt I Teil 7 53 (1922).

Van Slyke, D.D. Die gasometrische Bestimmung von primarem aliphatischen Aminostickstoff und ihre Andewendung auf physiologischchemischen Gebeiete. Abderhalden's Hand d biol Arbeit Abt I Teil 7 263 (1922).

Van Slyke, D.D. On the measurement of buffer values and on the relationship of buffer value to the dissociation constant of the buffer and the concentration and reaction of the buffer solution. J Biol Chem 52: 525 (1922).

Van Slyke, D.D. Studies of acidosis. XVIII. Determination of the bicarbonate concentration of the blood and plasma. J Biol Chem 52: 495 (1922).

Hiller, A. and Van Slyke, D.D. A study of certain protein precipitants. J Biol Chem 53: 253 (1922).

Hastings, A.B. and Van Slyke, D.D. The determination of the three dissociation constants of citric acid. J Biol Chem 53: 269 (1922).

Van Slyke, D.D., Austin, J.H. and Cullen, G.E. The effect of ether anesthesia on the acid-base balance of the blood. J Biol Chem 53: 277 (1922).

Austin, J.E., Cullen, G.E., Hastings, A.B., McLean, F.C., Peters, J.P. and Van Slyke, D.D. J Biol Chem 54: 121 (1922). Lundsgaard, C. and Van Slyke, D.D. The quantitative influences of certain factors involved in the production of cyanosis. Proc Nat Acad Sci USA 8: 280 (1922).

Van Slyke, D.D., Hastings, A.B., Heidelberger, M. and Neill, J.M. Studies of gas and electrolyte equilibria in blood. III. The alkali-binding and buffer values of oxyhemoglobin and reduced hemoglobin. J Biol Chem 54: 481 (1922).

Van Slyke, D.D., Hastings, A.B. and Neill, J.M. Studies of gas and electrolyte equilibria in blood. IV. The effect of oxygenation and reduction on the bicarbonate content and buffer value of blood. J Biol Chem 54: 507 (1922).

Van Slyke, D.D. Acidosin. Endocrinology and Metabolism 4: 51-93. L.F. Barker, Ed. Appleton, 1922. Van Slyke, D.D. and Binger, C.A.L. The determination of lung volume without forced breathing. J Exp Med 37: 457 (1923).

Linder, G.C., Lundsgaard, C., Van Slyke, D.D. and Stillman, E. The cause of low plasma protein concentration in nephritis. Proc Soc Exp Biol Med 20: 319 (1923).

Linder, G.C., Lundsgaard, C. and Van Slyke, D.D. The globulin and albumin content of the plasma in nephritis. Proc Soc Exp Biol Med 20: 320 (1923).

Lundsgaard, C. and Van Slyke, D.D. Cyanosis. Medicine 2: 1 (1923).

Van Slyke, D.D., Wu, H. and McLean, F.C. Studies of gas and electrolyte equilibria in the blood. V. Factors controlling the electrolyte and water distribution in the blood. J Biol Chem 56: 765 (1923).

Van Slyke, D.D. The determination of chlorides in blood and tissues. J Biol Chem 58: 523 (1923).

Linder, G. C., Lundsgaard, C., Van Slyke, D.D. and Stillman, E. Changes in the volume of plasma and absolute amount of plasma proteins in nephritis. J Exp Med 39: 921 (1924).

Linder, G.C., Lundsgaard, C. and Van Slyke, D.D. The concentration of the plasma proteins in nephritis. J Exp Med 39: 887 (1924).

Hiller, A., Linder, G.C., Lundsgaard, C. and Van Slyke, D.D. Fat metabolism in nephritis. J Exp Med 39: 931 (1924).

Hastings, A.B., Van Slyke, D.D., Neill, J.M., Heidelberger, M. and Harrington, C.R. Studies of gas and electrolyte equilibria in blood. VI. The acid properties of reduced and oxygenated hemoglobin. J Biol Chem 60: 89 (1924).

Van Slyke, D.D., Hastings, A.B., Murray, CD. and Davies, H.W. Blood reaction and respiration. Proc Soc Exp Biol Med 22: 82 (1924).

Van Slyke, D.D. and Neill, J.M. The determination of gases in blood and other solutions by vacuum extraction and manometric measurement. I. J Biol Chem 61: 523 (1924).

Harrington, C.R. and Van Slyke, D.D. On the determination of gases in blood and other solutions by vacuum extraction and manometric measurement. II. J Biol Chem 61: 575 (1924).

Linder, G.C., Hiller, A. and Van Slyke, D.D. Carbohydrate metabolism in nephritis. J Clin Invest 1: 247 (1925).

Van Slyke, D.D. Gasometric determination of urea with urease. Proc Soc Exp Biol Med 22: 486 (1925).

Hiller, A., Linder, G.C. and Van Slyke, D.D. The reducing substances of the blood. J Biol Chem 64: 625 (1925).

Van Slyke, D.D. and Robson, W. Unknown product hydrolysis of gelatin. Proc Soc Exp Biol Med 23: 23 (1925).

Van Slyke, D.D., Hastings, A.B., Murray, CD. and Sendroy, J., Jr. Studies of gas and electrolyte equilibria in blood. VIII. The distribution of hydrogen, chloride, and bicarbonate ions In oxygenated and reduced blood. J Biol Chem 65: 701 (1925).

Van Slyke, D.D. The determination of gases in blood and other solutions by vacuum extraction and manometric measurement. III. Gasometric determination of methemoglobin. J Biol Chem 66: 409 (1925).

Van Slyke, D.D. and Vollmund, E. Studies of methemoglobin formation. J Biol Chem 66: 415 (1925).

Van Slyke, D.D., Linder, G.C., Miller, A., Leiter, L. and Mcintosh, J.P. The excretion of ammonia and titratable acid in nephritis. J Clin Invest 2: 235 (1926).

Van Slyke, D.D. Bostimmung der Alkalireserve des Blutes. Abdarhalden Handbuch der biologischen Arbeitsmethoden Abt. IV Teil 4 1245 (1926).

Van Slyke, D.D. and Hiller, A. The residual reduction of blood. J Biol Chem 68: 323 (1926).

Van Slyke, D.D. and Hawkins, J.A. Gasometric determination of blood sugar. Proc Soc Exp Biol Med 24: 168 (1926).

Van Slyke, D.D. and Sendroy, J., Jr. Gasometric determination of blood calcium. Proc Soc Exp Biol Med 24: 167 (1926).

Van Slyke, D.D. Gasometric micro-Kjeïdahl determination of nitrogen. J Biol Chem 71: 235 (1927).

Van Slyke, D.D. La Formule Ureo-Secretoire D'Ambard et les resultats de Austin, Stillman et Van Slyke. La Presse Medicale 35: 214 (1927).

Hastings, A.B., Salvesen, H.A., Sendroy, J., Jr. and Van Slyke, D.D. Studies of gas and electrolyte equilibria in the blood. IX. The distribution of electrolytes between transudates and serum. J Gen Physiol 8: 701 (1927).

Van Slyke, D.D. and Robscheit-Robbins, F.S. The gasometric determination of small amounts of carbon monoxide in blood, and its application to blood volume studies. J Biol Chem 72: 39 (1927).

^ Return to Table of Contents

Scope and Contents note

Biography; bibliography; photographs; administrative correspondence.

^ Return to Table of Contents

Arrangement

As received.

^ Return to Table of Contents

File Plan note

Former Classification: I 450 V364

^ Return to Table of Contents

Administrative Information

Publication Statement

Rockefeller Archive Center

15 Dayton Avenue Sleepy Hollow 10591 archive@rockarch.org

URL: http://www.rockarch.org

Revision Description

Paper finding aid converted to EAD/XML by AureXus in 2010. Imported into the Archvists' Toolkit by Becky Robbins. 2010 September 30

Custodial History note

Boxes 2, 3, 4 (legal size Hollinger) and oversize packages 1, 2, 3, 4 originate from the Else Van Slyke collection. Box 5 and 6 originate from the Keller Van Slyke collection.

Conditions Governing Access note

Open for researchnoted. Brittle or damaged items are available at the discretion of RAC.

^ Return to Table of Contents

Controlled Access Headings

- Medical research
- Medical sciences
- Pathology
- Enzymes
- Enzymology
- Life sciences
- Physiology
- Proteins
- Biochemistry
- Chemistry
- Diseases
- Medicine, Preventive
- Biology -- Research
- Rockefeller University
- Rockefeller Institute for Medical Research

Collection Inventory

Title/Description	Instances	
Biographical material, photographs, bibliography, 1952	box 1	folder 1
Scope and Contents note		
Includes a short biography written in 1952 at the request of U.S. Gasser for purposes of Institute history.		
Photographs of co-workers and wife and children		
Hastings, A. Baird. "Donald Dexter Van Slyke; the 20th Century Iatro-chemist" Proceedings Fed. Am. Soc. Exptl. Biol. 23 (1964) 586-591 in honor of Van Slyke 80th birthday, 1964		
Murphy, Robert Cushman. Funeral Address delivered at Presbyterian Church, Setauket, 1971 May 7		
Biographical memoir. Yearbook APS. 1971, 194-200, written by Reginald M. Archibald, 1971		

Biographical memoir NAS v. 48 (1976) by Baird Hastings. Some copies of annual reports (excerpts), 1976

New York Times obituary

Sendroy Julius "In appreciation, Donald Dexter Van Slyke, 1883-1971" CLINICAL CHEMISTRY 17 (1971) 670-672, 1883-1971

John T. Edsall, "Carbon dioxide transport in blood: Equilibrium between red cells and plasma. The work of D.D. Van Slyke and L.J. Henderson, 1920-1928". Hist. Phil. Life Sci., 7 (1985), 105-120, 1920-1928

Scope and Contents note

In folder in "Biographical file".

Immediate Source of Acquisition:

Immediate Source of Acquisition

Gift of Dr. Edsall

Administrative correspondence, 1907-1937	box 1	folder 2	
April-May application to RIMR and letters of recommendation, 1907			
Report of the war activities of Hospital chemistry department; written at suggestion of T.M. Prudden, 1918 June			
Correspondence regarding use of name to help raise money to use for medical supplies for China, 1937			
Administrative correspondence, 1938-1954	box 1	folder 3	
Correspondence with Dr. Cole and Dr. Gasser related to Aug Jan. leave of absence to be visiting professor at Peiping Medical College, 1940			
Some personal notes. Thank you for flowers sent by Institute at death of Rena Mosher Van Slyke Some handwritten acceptances of invitations [apparatus and equipment], 1948			
List of materials/sold to Brookhaven National Laboratory from RIMR at request of Dr. Van Slyke on retirement from Institute			
Oral History from a five hour audio taped interview with Dr. Van Slyke on May 27 and 28, 1969 by Peter D. Olch of History of	box 1	folder 3	

Scope and Contents note

Indexed.

Includes biography; bibliography; copy of personal history as prepared for Dr. Gasser.

Medicine Division, National Library of Medicine, 1969 May 27-28

Processing Information note:

Processing Information note

Removed to RAC library 8/9/88.

Roos, Albert and Boron, Walter F. The buffer value of weak acids and bases: origin of the concept, and the first mathematical derivation and application to physico-chemical systems the work of M. Koppel and K. Spiro, 1914	box 1	folder 4	
Scope and Contents note			
Translation of article with significance for Van Slyke work.			
Photographic album presented to D.D. Van Slyke by The Medical Department of Brookhaven National Laboratory in honor of Dr. Van Slyke's 80th birthday, 1963 March	box 2		
"Donald Dexter Van Slyke. The Twentieth Century Iatrochemist"	box 2		
Correspondence	box 3	folder 1	
Edgar Stillman/D.D. Van Slyke. [re] Van Slyke illness and encouragement. Handwritten, 1918 November 11			
A. Baird Hastings/D.D. Van Slyke. Primarily [re] Hastings scientific work, 1935 January 22			
John D. Rockefeller, Jr. /D.D. Van Slyke. [re] declining dinner invitation for medical aid to China stating reasons, 1935 November 2			
D.D. Van Slyke/Kate [Stillman?]. Condolences on husband, Edgar [Stillman's] death. Handwritten, 1967 August 26			
Clippings	box 3	folder 2	
Custodial History: Custodial History			
Copies orginated from the Else Van Slyke collection.			
Scope and Contents note			
Copies Includes:			
J.A. LeClerc. "Obituary of Lucius Lincoln Van Slyke". Journal of the Association of Official Agricultural Chemists, May 1932, iii- iv, 1932 May			
"To Donald D. Van Slyke - First Scientific Achievement Award," Chemical and Engineering News, Vol 40, no 27, p 60			

box 3

folder 2

"Dr. Donald D. Van Slyke. Contemporaries", pp 61-62. Irvine H.

Page editorial. Modern Medicine, pp 67-68

Obituaries

Scope and Contents note

Includes.

Aura Edward Severinghaus. "Donald D. Van Slyke Third President of ABMAC. The ABMAC Bulletin Vol 32, nos 3, 4, Mar-Apr 1971, pp 1-3, 1971 March-April

"Biochemist Van Slyke Dies: Kin Lives Here. " Evening Journal, Wilmington, Delaware, p 42, 1971 May 6

Medical World News, p 46, 1971 May 28

Photocopies of articles, clippings etc

box 3

folder 3

Custodial History:

Custodial History

Originated from the collection of Else Van Slyke.

"Rockefeller Institute Donald Dexter Van Slyke to receive Willard Gibbs Medal". The Chemical Bulletin, Vol 26, no 3, p 69, 1939 March

"Chemist Diagnoses the Possible - Dr. Donald D. Van Slyke". (On receipt of AMA's first scientific achievement award). Medical Tribune, 1962 June 25

Symposium on chemistry in medicine. Sponsored by Medical Department, Brookhaven National Laboratory, 1963 Mar 28-29, in honor of Dr. Van Slyke's 80th birthday. Program, 1963 March 28-29

"Johnson names 11 for Science Medals" (Includes D.D. Van Slyke). New York Times, Sunday, Dec 12, 1965, p 78, 1965 December 12

Presentation of the National Medal of Science, The White House, 1966 February 10

Scope and Contents note

Includes program, list of medalists, list of President's committee on the National Medal of Science, and Lyndon B. Johnson remarks.

Geneva, 7th International Congress of Swiss Society of Clinical Chemistry, [re] D.D. Van Slyke address. Medicine et Hygiene (special issue), 1969 September 8-13

Obituaries, 1972

Scope and Contents note

Includes: A. Baird Hastings. "Donald Dexter Van Slyke 1883-1971." Journal of Biological Chemistry 247 (1972) 1635-1640.

Symposium at University of Ulm honoring D.D. Van Slyke. Program (in German), 1972 February 19			
Portraits of D.D. Van Slyke			
High school graduate, 1901	box 3	folder 4	
Pekin, China, 1922	box 3	folder 4	
Portraits by Louis Schmidt, RIMR, undated	box 3	folder 4	
Portrait by Blauvelt-Haulenbeck, RIMR, undated	box 3	folder 5	
Portrait. Multiple copies, 1 signed by D.D. Van Slyke, undated	box 3	folder 5	
Photographs. Group photographs of Brookhaven National Laboratory staff, 1955-1969	box 3	folder 6	
Scope and Contents note			
Includes: 1955 and 1956 with identification, 1958, 1963, 1965, 1969, nd. Photographs of A. Baird Hastings, John Plazin.			
Portraits of colleagues	box 3	folder 7	
Scope and Contents note			
Includes.			
Eggert Mtiller 1928, Peter? (in 1955, 1956 Brookhaven group photos identified as W.L. Hughes)., Christen Lundsgaard (d. 1930), M. Gomberg, Lee Farr ca 1936, John P. Peters 1955?, Frank (UNREADABLE). 1960, Glenn E. Cullen 1932, A. Baird Hastings 1949, P.A. Levene, 1928 1930 1932 1936 1949 1955 1956 1960			
Photographs, miscellaneous	box 3	folder 8	
Scope and Contents note			
Includes.			
Lewis Dahl, D.D. Van Slyke and George Cotzias, In color, nd			
D.D. Van Slyke and son, Keller, skiing, nd			
Photo album. The International Institute of Scientific Cooperation, Schloss Reisensburg (Donan) of interiors and exteriors, presented to D.D. Van Slyke			
Mounted black and white photograph of group at a concert. Unidentified, undated			
Photograph in color of David Barr, Phil Bard, D.D. Van Slyke, Randall Edwards, Magnus Gregersen, of China International Foundation grant committee, 1964 July			

Mounted photograph of probably first Mrs. Lucius Van Slyke

Mural, possibly at Research Institute at Dlea Deau, Montreal, 1985 November 7

Scope and Contents note

Includes thank you note from the Genests. Jacques Genest was head of Institute (per R.M. Archibald.) Prints in color of mural. [7 Nov 1985 R.M. Archibald/RU Archives - Description of Ceramic Mural in Lobby, 3 pp. at Institut de Diagnostic et de Recherches Cliniques de Montreal, Clinical Research Institute of Montreal.].

Memorabilia			
Bronx medal commemorating 70th birthday of Bernarr MacFadden long distant women's swimming, 1938 August 13	box 3	folder 9	
The Chemical Bulletin, Vol 26, no 5, May 1939. Booklet. [re] Willard Gibbs medal to Van Slyke, 1939 May	box 3	folder 9	
Scope and Contents note			
Includes program listing D.D. Van Slyke "The Development of Controlled Oxygen Therapy"; and Franklin C. McLean "Donald Dexter Van Slyke" pp 137-139.			
The Lambda News, May 1950, p 5. "News of Donald D. Van Slyke," alumni of Beta Theta pi fraternity, University of Michigan, 1950 May	box 3	folder 9	
Eugene W. Beesley, President, Eli Lilly/D.D. Van Slyke. [re] Van Slyke's 5 years service on Lilly research grants committee, 1956 August 2	box 3	folder 9	
Certificate for 50 years membership at First Presbyterian Church, Geneva, New York, 1956 October 1	box 3	folder 9	
[re] Radio of Free Asia, 1964 Certificate	box 3	folder 9	
Boston, Mass., 14th annual convention of American College of Cardiology. D.D. Van Slyke receives honorary fellowship award. Convocation booklet, 1965 February 20	box 3	folder 9	
New York State Dept of Health certificate of qualification in clinical chemistry, 1965 July 28	box 3	folder 9	
photograph of RIMR Campus, 1928	box 3	folder 9	
"D.D. Van Slyke Mar 1, 1896" scotch taped on cardboard with handwritten note, 1896 March 1	box 3	folder 9	
Scrapbook [re], undated	box 3	folder 10	
John P. Peters and Donald D. Van Slyke. "Quantitative Clinical Chemistry: Interpretation". Vol I (1931); Vol II (1932), 1931-1932	box 3	folder 10	

Scope and Contents note

Includes reviews and letters of congratulations on publications; advertising leaflets.

D.D. Van Slyke and others. "Observation on the Courses of
Different Types of Bright's Disease and a Resultant Change in
Renal Anatomy. Vol 17, Williams and Wilkins, Baltimore, 1930,
1930

box 3 folder 10

Scope and Contents note

Includes reviews, list of names requesting monograph and letters of congratulations. Reprinted in Medicine 9 (1930) 257-286.

Furniture appraisal 1960. Catalogue and appraisal of property
belonging to Donald D. Van Slyke, compiled by Consolidated
Appraisal, New York, 1960

box 3 folder 11

New York Times, [re] D.D. Van Slyke receiving Philip A. Conne gold medal of The Chemists Club of New York. Newspaper clipping, 1937 January 23

box 4 folder 1

[re] American Chemical Society, Willard Gibbs Award at Chicago, ACS meeting, 1939 May

box 4 folder 1

Scope and Contents note

Includes program, The Chemical Bulletin, May 1939 and newspaper clippings from the New York Times, Pittsburgh Press and The Bronxville Press.

D.D. Van Slyke receives honorary M.D. from University of Amsterdam, 1962 May 28

box 4

folder 2

Scope and Contents note

Includes calendar of trip kept by Van Slyke (handwritten), photograph of D.D. Van Slyke and others at degree granting ceremony, correspondence, typescript of Prof Borst's address, newspaper clippings, University of Amsterdam bulletin and letter of congratulations from J.P. Wibault.

D.D. Van Slyke delivers principal address. "On the Dedication of the Reactor of the Institute of Nuclear Science of Tsing Hua University" Taipei, 1961 December 5

box 4

folder 3

Scope and Contents note

Includes: correspondence, typescript of Van Slyke's presentation, booklet "Research in Free China. Taiwan's

Academia Sinia 1927-1961." photographs and miscellaneous items.

American Medical Assoc (AMA) first scientific achievement award to D.D. Van Slye, Chicago, 111th annual meeting of the AMA, 1962 June	box 4	folder 4	
Scope and Contents note			
Includes correspondence, photograph of D.D. Van Slyke and Hugh H. Hussey, miscellaneous items, clippings announcing award in various publications, and letters of congratulations.			
Symposiums in honor of Van Slyke's 80th birthday	box 4	folder 5	
Scope and Contents note			
Includes correspondence, programs, and guest lists of.			
Medical Dept, Brookhaven National Laboratory. Symposium on chemistry in medicine, 1963 March 28-29			
New York City, American Microchemical Society, 1963 April 19			
Hospital Patient Records "Nephrotics" age 15 and over. Original copy. Rockefeller Hospital, 1924-1950	box 4	folder 6	
Research records "Nephrotics" Rockefeller Hospital			
A-K (Graphic charts)	box 4	folder 7	
L-Z (Graphic charts)	box 4	folder 8	
Copy negatives/prints	box 5	folder 1	
Peking Union Medical College. Group photograph, 1921			
Peking Union Medical College. Group photograph. (different pose), 1921			
Bronxville, NY, 1922-1924			
[Copenhagen?] Elsa, Kell, Rena Van Slyke, 1932			
Don playing tennis at RI (cover/color original) of the Physicians' Bulletin May-June 1948, by Golinkin], 1948			
D.D. Van Slyke and Lieut. Gen. Robert Kho-Sheng Lim, printed in News of China. United China Relief, vol 3, no. 6, p. 1, 1944			
New York Times. 25 May 1962. "L.I. Research Chemist to Get A.M.A. Award". Newspaper clipping, 1962			
telegram from Robert Lim/Donald Van Slyke, 28 Mar 1947, 1947			
R.I. Van Slyke in middle of front row, P.A.T. Levene (with mustache) to his left, 1912			
Extra photographic prints	box 5	folder 2	

Photocopies of photographs owned by Karl Keller Van Slyke of D.D. Van Slyke. (1960s?), 1960	box 5	folder 3	
Articles copied from collection of K. Keller Van Slyke in 1982, 1982	box 5	folder 4	
The Chemical Bulletin, 1939 May			
Grit, 1960 October 6			
News of China 3 (1944) 1, 1944			
Chemical and Engineering News, Front Cover, 1094, 1953 March 16			
ABMAC Bulletin 17 (1956) 1, 5-6, 1956			
Donald D. Van Slyke biographic material from Elsa Van Slyke	box 5	folder 5	
5x7 copy negatives or smaller prints	box 6		
Scope and Contents			
[RMA #'s = nos. assigned by Dr. D.D. Van Slyke portrait by Randall. RMA#1 Reginald M. Archibald]			
L.L. Van Slyke home in Geneva, NY ca. 1907 RMA#1a, 1907			
Lucius Lincoln Van Slyke (father) RMA#2			
Geneva, NY home where D.D. Van Slyke grew up. Interior room of house RMA#3			
Uncle Morell Quackenbush and L.L. Van Slyke 1980 RMA#4, 1980			
Lawrence P. Van Slyke, half brother of D.D. Van Slyke, Fall 1905 or Spring 1906 RMA#4a, 1905-1906			
Lucius, Elsa, and Donald Van Slyke RMA#5a			
Elsa, Rena, Donald, and Kell Van Slyke, Mountain Lakes, NJ 1921 RMA#6, 1921			
Donald and Rena Van Slyke on their way to China 1921 RMA#7, 1921			
Hedwig Van Slyke (L.L. Van Slyke's third wife) RMA#11			
Lucius and Hedwig Van Slyke family photograph when married 2 June 1926 in Honolulu RMA#12, 1926 June 2			
D.D. Van Slyke Northwestern University receives honorary degree RMA#13a, 1940 June 15			
D.D. Van Slyke receiving honorary degree at Northwestern RMA#13b, 1940 June 15			

Kell, Rena, Elsa, Donald on board the De Grasse RMA#17, 1930 September 3 Elsa Van Slyke in Bronxville, New York. RMA#19, 1943 Rena and D.D. Van Slyke RMA#20, 1943 Kell Van Slyke RMA#21 Christmas with the A. Baird Hastings at Central Park West, NY City [Identifications on envelope] RMA#22, 1945 Christmas with the Hastings at Central Park West, NY City of Baird Hastings and Donald D. Van Slyke. RMA#23, 1945 Donald and Kell Van Slyke skiing,. RMA#24, 1947 Donald D. Van Slyke portrait bordered by apparatus. Cover of The Chemical Bulletin, Vol 26, no 5, May 1939. RMA#26, 1939 May Newspaper clipping photograph of D.D. Van Slye with Helen Keller and Miss Polly Thompson at formal dinner in Miss Keller's honor at the New York World's Fair, RMA#27, 1940 October 6 Donald D. Van Slyke in the laboratory used in The Chemical Bulletin, with article by Franklin C. McLean, "Donald Dexter Van Slyke." RMA#28, 1939 May Donald D. Van Slyke on steps of home in Geneva, New York. RMA#31 Cornell Experimental Station. Lucius L. Van Slyke worked here. Dairy and Biological Building. RMA#32 Dairy building. RMA#33 Cornell Experimental Station, Geneva, NY Chemical laboratory. RMA#34 Donald D. Van Slyke and his assistant. RMA#35 D.D. Van Slyke receiving honorary degree at Yale, New Haven, Conn, ca 1925. D.D., Van Slyke's first honorary? RMA#36, 1925 Left to right: L.L. Van Slyke, father of D.D.V.S., Rena Mosher (spelling?), D.D.V.S.'s daughter, D.D. Van Slyke, Julia Van Slyke, second wife of L.L.V.S. In front: Lawrence P. Van Slyke, son of L.L.V.S. and Julia, ca 1914? RMA#37, 1914 D.D. Van Slyke ca 1927 with son, Karl Keller Van Slyke. RMA#38, 1927 D.D. Van Slyke, Photo by J.E. Hale, Geneva, New York. RMA#39 D.D. Van Slyke. Photo by CA. Scherer RMA#42 D.D. Van Slyke. Photo by Randall RMA#50

D.D. Van Slyke, Photo by Hartung. Photo Shop, Peking. RMA#51

D.D. Van Slyke and others on way to Ming Tombs, RUA#52, 1922 D.D. Van Slyke photograph printed in ABMAC Bulletin 17, no 5, No, 1956 September Else Van Slyke collection box 6 **Custodial History: Custodial History** Originated from the Else Van Slyke collection. Photographs and memorabilia package 1 L.L. Van Slyke portrait with inscription, 1909 D.D. Van Slyke portrait taken at Brookhaven National Laboratory, 1962? Mounted print with photograph of Emil Fischer bust and drawings of buildings and apparatus. Dedication "Seinen lieben Schülern und Kollegen zür Erinnerung an gemeinsame Arbeit in Dankborkeit gewidmet von Emil Fischer". Berlin. d.J. OKT. 1912. Entwurf v. Gustav Fischer Gr.-Lichterfelde - Photographie v. Franz Linkhorst-Grunewald nach der Bronce v. Prof. Fritz Klimsch - Charlottenburg, 1912 Mural. Possibly at Research Institute Dlea Deau in Montreal. (As per R.M. Archibald) **Scope and Contents note** Includes faces of Sir Thomas Lewis, Claude Bernard, J.S.L. Browne, Donald D. Van Slyke. telegram from China. Robert Lim/D.D. Van Slyke on retirement package 2 from Presidency of ABMAC and gratitude for help to China. Framed 2 brass plates of Beta Theta Pi Fraternity plate and University of package 3 Michigan plate **Processing Information: Processing Information** removed from wooden shields. untitled package 4 Honorary Doctor of Science Degrees Yale University, diploma, 1925 University of Michigan, diploma, 1935 Northwestern University, diploma, 1940

University of Chicago, diploma, 1941

University of London, diploma, 1951	
Honorary Doctor of Medicine Degrees	
University of Oslo, diploma, 1938	
University of Amsterdam, diploma with signature, 1962	
Medals and Awards	
Fisher Award in Analytical Chemistry, American Chemical Society, diploma, 1953	
First Van Slyke Award in Clinical Chemistry, American Association of Clinical Chemists, diploma, 1957	
National Medal of Science, USA, diploma, 1965	
Elliott Cresson Award, Franklin Society of Philadelphia, diploma, 1965	
Distinguished Clinical Chemist Award of The International Federation of Clinical Chemistry, diploma, 1969	
American Memberships	
National Academy of Sciences, diploma, 1921	
Foreign Memberships (Honorary)	
Deutsche Akademie der Naturforscher, diploma, 1932	
Società Lombarda di Medicina, diploma, 1935	
Physiological Society letter, 1942	
Royal Society of Sciences of Upsala, diploma, 1942	
Danish Society for Internal Medicine, diploma, 1952	
Société de Pathologie Rénale, letter from Dr. A.A. Osman, 1952	
Academia Nazionale dei Lincei, Italy, diploma, 1961	
Danish Academy, diploma, 1956	
Oesterreichische Gesellschaft für Mikrochemie diploma, 1961	
Miscellaneous	
Honorary Member, Staff of NAMRU-2, 3 Jan, Dept of Navy, certificate, 1962	
Certificate of Appreciation, The War Department, 1946 October 28	
Framed watercolor	
Van Slyke, D.D. reprints	
1907-1923	box 7

1907-1923 box 7

Van Slyke (Donald D.) papers

1924-1933	box 8
1934-1944, 1946-1947	box 9
1948-1951, 1960	box 10