Murray Gell-Mann, born in New York Sept. 15, 1929

B.S. Yale, 1948, Ph.D., M.I.T., 1951, Sc.D. Yale (honoris causa), 1959.

Member, Institute for Advanced Study, 1951.
Assistant, Associate Professor, University of Chicago, 1952-1955.
Associate Professor, Calif. Institute of Tech., 1955-56.
Professor of Theoretical Physics, Calif. Inst. of Tech. 1956-present

Visiting Professor, Collège de France, Paris, 1959-60.
Fellow of American Physical Society
Member, National Academy of Sciences
First recipient of Heineman prize for theoretical physics, offered by American Physical Society, 1959.

Research: Elementary particle physics and nuclear physics

Consultant to Rand Corporation (since 1956)
Member of Jason Division, Institute for Defense Analyses, Member of steering committee (since 1960).
Work on AICBM defense, nuclear strategy.

Curriculum Vitae - Marvin L. Goldberger

I was born in Chicago, Illinois on 22 October, 1922. From 1925 until 1940 my family lived in Youngstown, Ohio and I attended elementary school and high school there. In 1940 I went to the Carnegie Institute of Technology to study chemical engineering and physics, and received a B.S. degree in 1943. I entered the Army in November of 1943 and after six months in the Signal Corps was assigned to the Manhattan Project in Chicago. Upon discharge from the Army in Feb. 1946, I entered graduate school at The University of Chicago, and in 1948, under the supervision of Enrico Fermi, received a Ph.D. degree in Physics.

After holding research position at the University of California (1948-49) and at M.I.T. (1949-50) I went to the University of Chicago in 1950 as an Assistant Professor, became a full Professor in 1954, and remained at Chicago until February 1957. (The year 1953-54 was spent as Higgins Visiting Professor at Princeton University.) I then moved to Princeton University as Eugene Higgins Professor of Theoretical Physics which position I hold at present. The year 1962-63 is being spent at M.I.T. as Visiting Professor on sabbatical leave.

My principle interest in physics is in the theory of elementary particles and high energy phenomena. For the past nine years I have been concerned with the development and application of dispersion relations to these problems. I have worked at various times on nuclear reactor theory, plasma physics, statistical mechanics, and scattering theory, and have published about sixty papers in professional journals. In collaboration with Professor Kenneth Watson I have written a book, "Collision Theory", which is to be published by late 1963.

Since 1955 I have been a consultant to the Los Alamos Scientic Laboratory and the Lawrence Radiation Laboratory on a variety of unclassified and classified projects. I have also served on a number of committees and panels for the Department of Defense and the Presidents Science Advisory Committee. In 1959, I became the Chairman of the Jason Division of the Institute for Defense Analyses (a non-profit corporation which does scientific work for the government.) and hold this position at present.

I was married in 1945 to Mildred Ginsburg, a mathematician at the Manhattan Project, in Chicago. We have two sons, Samuel, age 14, and Joel, age 10. We live in Princeton, New Jersey, where my wife has an editorial research business and is engaged in developing programs for the teaching of science and mathematics in the elementary and secondary schools.

Susan Jahoda. Works for comm unity service society. This is a protestant social aid society. Her private telephone number is Manhasset 7-3510. She is a friend of Franci Racker's.

Central Bureau for the Jewish Aged. 45 Astor Place. Al 4-9571.

Home for Aged Hebrews. Office on 105th street. The home is in the Bronx. Executive director; M.M. Biller. Assitant Director: Minna E. Adler. Social secretary: Marie Galpern.

I have an appointment for July 3rd in the 105th street office.

Hotel Park Plaza

CURRICULUM VITAE

of

BERTRAND GOLDSCHMIDT

Engineer of Ecole de Physique et Chimie de Paris
Docteur es Sciences physiques
Formerly Assistant of Radio activity at Faculte des Sciences de Paris.

FAMILY REFERENCE

Born a French Citizen in Paris on November 2nd, 1912.
Entered U.S.A. May 20th, 1941 as immigrant on French Quota
His Father a Belgian Citizen born in Brussels in 1869 was a Civil Engineer, lived in France since 1900 and died in Paris 1934 - His Uncle Robert Goldschmidt known Belgian Physicist was one of the wireless pioneer.

SUCCESSIVE DEGREES AND POSITIONS

1930	Obtained highest rank in entrance competition at Ecole de Physique et Chimie de Paris
1933	Awarded the diploma of engineer-chemist of Ecole de Physique et Chimie
1934	Licencie es sciences physiques
1934 to 1937	Chosen to personally assist by late Mme Pierre Curie a few months before her death and reappointed as such by Professor Debierne her successor in Curie Laboratory of Institute du Radium of Paris
1938	Promoted to Assistant in radio activity at Faculte des Sciences de Paris in Curie Laboratory of Institut du Radium (Head professors Mr. Debierne and Mme Irene Joliot-Curie)
1939	Docteur es sciences physiques
1939	Sent on a mission by the "Centre National de la Recherche Scientifique" to measure cosmic ray variations in between France and New Caledonia
1940 (December 20)	Lost his post as Assistant at Faculte des Sciences de Paris under new French laws forbidding employment of Non-Aryans.

MILITARY SERVICE

1934	Active service (12 month), selected as military chemist
1939-1940	Mobilized as non-commissioned officer employed as military chemist in study of the effectiveness of active charcoal in protecting against poisonous gas. Demobilized after French Armistice.

SCIENTIFIC WORKS AND QUALIFICATIONS

Worked on scientific research five consecutive years in the Curie Laboratory of Paris Institut du Radium under the direction of Professor Debierne and Mme Joliot-Curie.
Specialized in mineral chemistry and mainly in physical chemistry and radio activity.
Principal Work: his Thesis of Doctorat concerns syncrystallization of radio active salts; it gives new sights on the general problem of fractional crystallization of isomorphic mixed salts and shows possible important utility in the commercial production of radium salts.
His qualifications are best adapted to the following branches of chemistry:

1. Scientific research and industry of radium, radium salts and their concentration by fractionnal crystallization.

2. Scientific research and industrial application of all chemical problems concerning natural and artificial radio active elements.

3. In all scientific or industrial problems of mineral chemistry where separation by crystallization plays an important part (rare earth, alkaline metals - - - - -).

LIST OF PUBLICATIONS

Comptes Rendus de l'Academie des Sciences.

1936. - T 203 p. 617 - Coefficient de fractionnement du radium et de ses isotopes dans la cristallisation du chlorate de baryum.

1937. - T 205 p. 41 - Etude du coefficient de fractionnement de sels possedant plusieurs hydrates.

1938. - T 208 p. 110 - Sur la precipitation mixte des sulfates de baryum et de strontium.

1939. - T 209 p. 794 - Changements d'intensite et de composition des rayons cosmiques avec la latitude magnetique (with Messrs. Auge, Gregoire et Maze)

Bulletin de la Societe Chimique de France

1936. - T III p.2371 - Sur les proprietes isotopiques du radioiode $^{128}_{53}I$ et de l'iode ordinaire $^{127}_{53}I$ (with Mr. Guillot)

1939. - T VI p. 718 - Analyse chimique par radioactivite artificielle. Dosage du disprosium dans un fractionnement de terres yttriques (with Miss Djourhovitch)

Journal de Chimie Physique

1938 - T 35 p. 407 - Fractionnement du Radium dans la precipitation de l'iodate de baryum en differentes solutions de sels de baryum radiferes.

Annales de Chimie

1940 - T 13 p. 88 - Etude de fractionnement par cristallisation mixte a l'aide de radioelements.

Record of Chemical Progress

1940 - V 1 No.3 P.10 Synerystallization of radioactive salts.

Dr. Simon Somkin
Prof. City College
138 St. & Convent Ave

Bernard Feld

CURRICULUM VITAE
of
BERTRAND GOLDSCHMIDT

Engineer of Ecole de Physique et Chimie de Paris
Docteur es Sciences physiques
Formerly Assistant of Radio activity at Faculte des Sciences de Paris.

FAMILY REFERENCE

Born a French Citizen in Paris on November 2nd, 1912 – Single –
Entered U. S. A. May 20th, 1941 as immigrant on French Quota
His father, a Belgian citizen, born in Brussels in 1869, was a Civil Engineer, lived in France since 1900 and died in Paris 1934. His uncle, Robert Goldschmidt, known Belgian Physicist, was one of the wireless pioneers.
Has applied for his first papers.

SUCCESSIVE DEGREES AND POSITIONS

1930	Obtained highest rank in entrance competition at Ecole de Physique et Chimie de Paris
1933	Awarded the diploma of Engineer-Chemist of Ecole de Physique et Chimie
1934	Licencie es sciences physiques
1934 to 1937	Chosen to personally assist by the late Mme Pierre Curie a few months before her death and re-appointed as such by Professor Debierne, her successor in Curie Laboratory of Institute du Radium of Paris
1938	Promoted to Assistant in radio activity at Faculte des Sciences de Paris in Curie Laboratory of Institute du Radium (Head professors - Mr. Debierne and Mme Irene Joliot-Curie)
1939	Docteur es sciences physiques
1939	Sent on a mission by the "Centre National de la Recherche Scientifique" to measure cosmic ray variations in between France and New Caledonia
1940(December 20)	Lost his post as Assistant at Faculte des Sciences de Paris under new French laws forbidding employment of non-Aryans.

MILITARY SERVICE

1934	Active service (12 months), selected as military chemist
1939-1940	Mobilized as non-commissioned officer employed as military chemist in study of the effectiveness of active charcoal in protecting against poisonous gas. Demobilized after French Armistice.

SCIENTIFIC WORKS AND QUALIFICATIONS

Worked on scientific research five consecutive years in the Curie Laboratory of Paris Institut du Radium under the direction of Professor Debierne and Mme Joliot-Curie.
Specialized in mineral chemistry and mainly in physical chemistry and radio activity.
Principal Work: his Thesis of Doctorat concerns syncrystallization of radio active salts; it gives new sights on the general problem of fractional crystallization of isomorphic mixed salts and shows possible important utility in the commercial production of radium salts.
His qualifications are best adapted to the following branches of chemistry:

1. Scientific reasearch and industry of radium, radium salts and their concentration by fractional crystallization.

2. Scientific research and industrial application of all chemical problems concerning natural and artificial radio active elements.

3. In all scientific or industrial problems of anorganic chemistry where separateion by crystallization plays an important part (rare earth, alkaline metals ....).

Speaks English fluently.

LIST OF PUBLICATIONS

Comptes Rendus de l'Academie des Sciences.

1936. - T 203 p. 617 - Coefficient de fractionnement du radium et de ses isotopes dans la cristallisation du chlorate de baryum.

1937. - T 205 p. 41 - Etude du coefficient de fractionnement de sels possedant plusieurs hydrates.

1938. - T 208 p. 110 - Sur la precipitation mixte des sulfates de baryum et de strontium.

1939. - T 209 p. 794 - Changements d'intensite et de composition des rayons cosmiques avec la latitude magnetique (with Messrs. Auge, Gregoire et Maze)

Bulletin de la Societe Chimique de France

1936. - T III p.2371 - Sur les proprietes isotopiques du radioiode $^{128}_{53}I$ et de I'iode ordinaire $^{127}_{53}I$ (with Mr. Guillot)

1939. - T VI P. 718 - Analyse chimique par radioactivite artificielle. Dosage du dysprosium dans un fractionnement de terres yttriques (with Miss Djourhovitch)

Journal de Chimie Physique

1938 - T 35 P. 407 - Fractionnement du Radium dans la precipitation de l'iodate de baryum en differentes solutions de sels de baryum radiferes.

Annales de Chimie

1940 - T 13 p. 88 - Etude du fractionnement par cristallisation mixte a l'aide de radioelements. (Thesis of Doctorat).

Record of Chemical Progress

1940 - V 1 No. 3 P.10 - Syncrystallization of radioactive salts.

E-22

PERSONAL DATA

PERSONAL:

Name: Elizabeth Roboz
Address: Kingscote Gardens, Stanford University, Stanford, Calif.
Birthplace: Szazvaros, Hungary
Birth date: April 11, 1905
Citizenship: Naturalized American

EDUCATION:

High School Graduate, June 1922
University of Vienna, Sept., 1922 - June, 1926, "Diplom Chemist", (equivalent to Master's degree) with high honors.
University of Vienna, June 1926 - May 23, 1928, working under Dr. Zellner, Professor of Plant Chemistry, Director of the State Experiment Station. Ph.D.
University of Budapest, Sept., 1936 - May 29, 1938. Ph.D. Working under Dr. Doby, Professor of Biochemistry.

FURTHER STUDY AND RESEARCH IN VARIOUS EXPERIMENT STATIONS:

During my employment in Hungary considerable time was spent at various Agricultural Experiment Stations and Universities in Europe. Leave of absence was granted (1931-1932) to do research at Experiment Station of the Hungarian Department of Agriculture. 1936-1938 leave was granted for studying at Hungarian University in Budapest for Ph.D. degree. My work of specialization is in the following fields: 1. In basic research; chemistry of natural products, isolation, and purification, carbohydrates, proteins, and plant constituents, enzymes. 2. In applied research: plant nutrition, fertilizer, sugar, and by-products.

EXPERIENCE:

February 1929 - January 1940. Research chemist for the Agricultural Industry Company, Budapest.
February 1940 - August 1942. Research chemist for Weyl-Zuckerman and Co., (agricultural firm), Stockton, California.
August 1942 - August 1945. Research chemist in Bio-organic Department of the California Institute of Technology, Pasadena, California.
August 1945 - August 1947. Research chemist with rank of Associate professor University of Wyoming.
September 1947 - September 1948. Special research consultant for Sugar Research Foundation, working at New York State Agricultural Experiment Station, Cornell University.
September 1948 - August 1949. Research Associate Stanford Research Institute.
September 1949 - Research Associate, School of Biological Sciences, Stanford University.

PROFESSIONAL SOCIETIES:

American Chemical Society, Sigma Xi, Iota Sigma Pi, Stanford Faculty Research Club, Colorado-Wyoming Academy of Science, American Association for Advancement of Science.

EXPERIENCE

February 1929-January 1940. Research chemist for the Agricultural Industrial Company, Budapest. During my employment, leave of absence was granted for studying plant nutrition and plant biochemistry at the University of Budapest, 1936-1938, leading to degree of Ph.D. In 1932, six months was spent doing research in the Plant Nutrition Laboratory of the Hungarian Department of Agriculture. Besides studying and doing research in Hungary, considerable time was spent at various Research stations, Sugar Institutes and Universities, in Sweden, Switzerland, Checho-Slovakia, Germany and Denmark. Research on sugarbeet, quality control. (See publications 2-20)

February 1940-August 1942. Research chemist for Weyl-Zuckerman and Co. (Agricultural firm), Stockton, California. (Problems connected with plant nutrition.)

August 1942-August 1945. Research chemist in Bio-Organic Department of the California Institute of Technology, Pasadena, California. Worked with Dr. A. J. Haagen Smit, professor of Bio-Organic Chemistry, on the isolation of sex hormone of Myxomyces, (interrupted by war project), on the chemistry of the Guayule plant. Further research was carried out on the isolation of Xanthurenicacid from urine, and isolation and identification of Aloe Mucilage. (See list of publications Nos. 21, 23.)

August 1945-August 1947. Research chemist, rank of Associate Professor, University of Wyoming. Supervised the work of graduate students in the field of isolation of coal constituents and carried out research on physical and chemical properties of pectin (See list of publications Nos. 22, 27.) The work was supported by the Sugar Research Foundation.

September 1947-September 1948. Special Research consultant for Sugar Research Foundation, New York State Experiment Station, Cornell University. As a continuation of the Sugar Research Foundation project, investigations were carried out to find new source for pectic enzymes and process of enzymic hydrolyses of pectin (See publication No. 24.) This work was carried out with Dr. Z. Kertesz, Professor of Chemistry at Cornell University, New York State Experimental Station.

September 1948-August 1, 1949. Research associate, Stanford Research Institute. Developed methods for determining the galacturonicacid in the presence of pectin and reducing sugars, and a new process for the isolation of galacturonicacid.

August 1, 1949- Research Associate, School of Biological Sciences, Stanfcrd University, Stanford, California. Working on gene and enzyme relationship (investigating the carbohydrate-enzymes in normal and mutant strain of Neurospora.)

LIST OF PUBLICATIONS.

1. The chemical composition of the Crataegus Oxyacantha; National Academy of Sciences, Vienna, 1928.

2. The influence of the plant nutrients on the sugar content of the beat; Periodical for "Sugar Beet", Halle, Germany and Hungary, 14, 86 (1932).

3. The influence of fertilizer on the quality of the wheat; Agricultural Res. J., 7, 48 (1934).

4. Harmful nitrogen in the beet, J. Sugar Industry of Czechoslovakia, 16, 110, 116, (1934).

5. The influence of the varieties on the quality and the yield of the wheat; Agricultural Res. J., Budapest, 8, 345. (1935).

6. New methods for determining the effectiveness of arsenic containing insecticides sprays; Agricultural Res. J., Budapest 8, 225 (1935).

7. Iodometric determination of copper in the presence of sugar and organic non-sugar substances; Periodical for the Sugar Industry of the Republic, Czechoslovakia, 17, 182 (1935).

8. The physiological significance of the soil reaction for the industrial plants and the effect of the fertilizers on the useful constituents of plants. IV. Congress International Technique et Chimique des Industries Agricoles Bruxelles, 1935.

9. Rapid and accurate determination of invert sugar and other reducing sugars without filtration of Cu2O, J. Hungarian Chem. Soc., 41, 2 (1935).

10. Silage of the sugar beet pulp by a new treatment with particular reference to the chemical changes during the fermentation, Agricultural Res. J., 9, 155 (1936).

11. Research laboratory of the Agricultural Industry Co., Published Athenaeum Budapest, 1936.

12. Methods for the analysis of sugar and acid in raw and canned tomatoes; Agricultural Res. J., 10, 159 (1937).

13. Throughflowing apparatus for the electrometric determination of pH; Hungarian chemical periodical, 1937.

14. Introduction of systematic determination of the pH in the control of the sugar manufacturing; Assn., of Sugar Manufacturers, 1937.

15. The results of seven years of experiments with various sugar beet seeds with particular reference to the quality and yield; Sugar Beet J., June and Aug.,1938

16. Laws of absorption of phosphoric acid and potassium in the soil (with Dr. Ing. Mauthner); International Congress for the Soil Science, Helsinki, A, 29 (1938).

17. Methods for determination of harmful nitrogen and the influence of variety, soil and fertilizer on the harmful nitrogen content of the sugar beet. VI. Congress International Technique et Chimique des Industries Agricoles, Budapest, 1939.

18. Fertilizer experiment on soils of low nutritive content; J. for Sugar Beet, Hungary, May and June, 1939.

19. Artificial Humus, J. Coal Industry, 1940.

20. Harmful constituents of the beet. Factors which influence harmful nitrogen and chemical determinations related to the study. Proceedings Am. Soc. of Sugar Beet Technologists, 1942, 515.

21. Xanthurenic acid and its role in the tryptophane metabolism of pyrodoxine deficient rats. (With S. Lepkewsky and A.J. Haagen Smit).

22. Chemical study of beet pectin. (With A. Van Hook). Proceedings Am. Soc. Sugar Beet Technologists, 1946, 574.

23. A mucilage from Aloe Vera; J. Am. Chem. Soc., 70, 3248 (1948).

24. D-Galacturonic acid. A study of its preparation from sugar beet pulp. Sugar Research Foundation, Feb., 1949.

TECHNICAL PAPERS PRESENTED AT VARIOUS MEETINGS
(not yet published)

25. Chromatography of coal extracts (with R. Stevens), University of Wyoming. Colorado and Wyoming Academy of Science, 1948.

26. Oxidation products of coal. Coal Mine Operators Meeting, University of Wyoming, 1947.

27. Pectin from sugar beet pulp. II. Chemical and physical properties (with A. Van Hook). Am. Chem. Soc., 1946.

28. Isolation of ferulic acid from enzyme-hydrolyzed sugar beet pulp. Am. Chem. Soc., Chicago, 1948.

29. Rapid determination of pectic substances in plant extract. Am. Chem. Soc., San Francisco, 1949.

30. Detoxification of selenium by beet pectin (with Irene Rosenfeld and O.A. Beath). Am. Chem. Soc., San Francisco, 1949.

STUDIES AND REPORTS IN U.S.A.
(unpublished)

31. Sugar beets a study and report for Weyl-Zuckerman and Co. Stockton, California. (Soil, fertilizer, climate, seed, irrigation, harvest, chemical analyses, tables 69 pages) 1940.

32. Same suggestions concerning sugarbeet seed growing in 1940.

33. Chemical study of the potato tissue correlated to the fertilizer treatments.1941

34. Chemical study of the plant tissue, Feb. 1942.

35. Methods for following the hydrolysis of pectin.

36. New method for isolation of galacturonic acid.

C U R R I C U L U M

V I T A E

Leonard S. Lerman

Born: June 27, 1925, Pittsburgh, Pennsylvania

Education:

Carnegie Institute of Technology, 9/42-4/45, B.S.(4/45), Chem. Phys.

California Institute of Technology, 10/45-10/49, Ph. D. (6/50), Chem. Biol.

Positions:

Res. Assistant, Explosives Research Laboratory (NDRC), (full time), Supervisor:

Dr. M. Paul, 4/45-10/45

Instructor in Chemical Embryology, University of Colorado, (full time), Supervisor:

Dr. Heinz Herrmann, 11/51-10/52

Asst. Professor of Chemical Embryology, University of Colorado, (full time),

Supervisor: Dr. Heinz Herrmann, 10/52-10/53

Assistant Professor of Biophysics, University of Colorado, (full time), Supervisor:

Dr. Theodore T. Puck, 11/53-present.

Scientific Papers:

1. Hemodynamics of aortic occlusion

   A. van Harreveld, G. A. Fergen and L. S. Lerman
   Amer. J. Physiol. 157, 168 (1949)

2. Immunologic adsorbents I. Isolation of antibody by means of a cellulose-protein antigen

   D. H. Campbell, E. Luescher, and L. S. Lerman
   Proc. Nat. Acad. Sci., 37, 575 (1951)

3. A Biochemically specific method for enzyme isolation

   L. S. Lerman
   Proc. Nat. Acad. Sci., 39, 232 (1953)

4. Antibody chromatography as an immunologically specific adsorbent

   L. S. Lerman
   Nature, 172, 635 (1953)

5. Chromatographic fractionation of the transforming principle of the pneumococcus

   L. S. Lerman
   Biochim. et Biophys. Acta, 18, 132 (1955)

Abstracts:

1. Equilibrium studies on the reaction of antibody with hapten

   L. S. Lerman
   Federation Proc., 8, 406 (1949)

2. Purification of antibodies by specific methods

   D. H. Campbell and L. S. Lerman
   Federation Proc., 8, 402 (1949)

3. Kinetic Studies on Genetic Transformation in Pneumococcus

   L. S. Lerman and L. J. Tolmach
   Paper presented at the National Biophysics Conference, Columbus, Ohio, March 4-6, 1957

4. Selective effects of ultraviolet radiation and other agents on genetic transformation

   L. J. Tolmach and L. S. Lerman
   Paper presented at the Radiation Research Society, Rochester, New York, May 13-15, 1957

5. The binding of DNA to methylated bovine serum albumin

   L. S. Lerman and K. S. Korgaonkar
   Paper to be presented at American Chemical Society, New York, N. Y., September 8-13, 1957

Sumner Norton Levine

Residence: 132 North Arlington Avenue, East Orange, New Jersey

Telephone: ORange 5-1597

Born: September 5, 1923 Married: November 27, 1952

Summary: Doctorate in physical chemistry. Broad research in physiological chemistry, protein and enzyme research. Organic synthesis. Wide experience in analytical, physical and biochemical methods, including specialized techniques - ultracentrifuge, electrophoresis, infrared spectroscopy, radiochemical methods, enzyme techniques, etc. Experience in the organization, equipping and administration of research laboratories.

Education: Brown University; February, 1946, B.S., (chemistry).
University of Wisconsin; August, 1949, Ph.D. (physical chemistry).
Institute of Enzyme Chemistry; University of Wisconsin, 1948-1949, (fellow in biochemistry).

Experience: Research Fellow at the Institute of Enzyme Chemistry (1948-1949). Responsibility for organizing the radiochemical program. Research on the application of radiochemical techniques to fatty acid metabolism.

Research Instructor at the University of Chicago (Department of Medicine), (1949-1950). Research on the mechanism of enzyme reactions and physical properties of proteins and enzymes. Lectured at graduate seminars on biochemical topics.

Research Associate at Columbia University (College of Physicians and Surgeons), 1950-1954. Research on physiological chemistry of the nerve impulse. Isolation of enzymes of interest in nervous activity. Techniques for the isolation of proteins (1950-1952). Research on the biochemistry of cancer (1952-1954). Properties of proteins in nonaqueous media. Physical properties of proteins. Application of physical chemical concepts to biochemical problems; interaction between proteins and small molecules. Synthesis of amino acid derivatives.

Chief of Chemical Research Laboratories at the Veterans Administration Hospital, East Orange, New Jersey (June 1954-present). Responsible for the organization, equipping, research program and administration of research laboratories, staffed by three, plus part-time secretary. Unit consists of animal quarters, one physical chemical laboratory, two biochemistry laboratories and one bacteriological laboratory. Present projects include animal studies on bone physiology, studies on uropepsin and infrared studies of protein derivatives. Isolation and properties of polysaccharides. In charge of special analysis.

Publications:

1. "Thermal Diffusion in Liquid Hydrocarbon Systems", University of Wisconsin Press, 1949 (Thesis).
2. "Purification of Cholinesterase", Federation Proceedings, 1951.
3. "Role of Electrical Charge upon the Activity of Liver Esterase", J.B.C., 194, 613, 1953.
4. "Role of Sulfhydral Groups in Alcohol Dehydrogenase", Arch. of Biochem. and Biophys., 175, 41, 1952.
5. "Theory of Multipoint Binding of Substrates to Protein I", Enzym., XVI, 256, 1953.
6. "Theory of Multipoint Binding of Substrates to Protein II", Enzym., XVI, 265, 1953.
7. "Binding of Nonionized Substrates to Protein", Proceedings of the Amer. Assoc. of Cancer Research, 1, 33, 1953.
8. "Solubilization of Bovine Albumin in Nonaqueous Media", Arch. of Biochem. and Biophys., 50, 515, 1954.
9. "Synthesis of Glycyl and Alanyl Chloride," J.A.C.S., 76, 1382, 1954.
10. "Solubilization of Proteins in Nonaqueous Media", further studies of, Arch. of Biochem. and Biophys., in press.
11. Chemical Week, articles for.

Societies and Honors: American Chemical Society
Sigma Xi
Jane Coffin Childs Fellow
Damon Runyon Fellow
New York Academy of Sciences
American Men of Science, 1954 edition

Travels: South America, 1951; United States, 1952; Europe, 1953.

Publications addenda:

12. **"An Ultramicro Amperometric Technique for the Determination of Sulfhydryl Groups", Science, in press.**
13. **"Studies in the Determination of Uropepsin", J. Gastroent., in press.**
14. **"The Determination of the Thermal Death Rate of Bacteria", Food Research, in press.**
15. **"Magnetic Techniques for the Isolation of Leucocytes", Science, in press.**
16. **"Isolation of Mucoprotein from Tendon", in preparation.**

Nelson Marsh

HELEN WATTS MELLER - CURRICULUM VITAE

Born Helen Lucile Watts, January 7, 1900, in Sioux City, Iowa

1912-17 - Attended public high school, Northampton, Massachusetts; graduated in 1916, then took a year of postgraduate study.

1917-21 - Attended Smith College. A.B. cum laude, 1921, with special honors in psychology.

Summers 1918-22 - Worked as junior leader on Swarthmore Chautauqua circuits, in towns from New Brunswick to North Carolina.

1921-23 - Taught English literature and public speaking in high school department of Hampton Institute, Virginia.

1923-24 - Taught English to juniors and seniors, public high school, Downers Grove, Illinois.

Summer 1924 - Acting Dean of Women, Fisk University, Nashville

1924-26 - Graduate study in English and American literature, Columbia University; M.A., 1926. Lived at International House; worked at information desk there in 1926.

1926-28 - Taught English composition and English and American literature at Fisk University, with rank of assistant professor in 1926-27 and associate professor in 1927-28.

1928-30 - Assistant Editor, National Municipal Review, New York City

Summer 1930 - Traveled in France, Germany, Italy and Switzerland.

1930-32 - Executive secretary for four reunion classes of alumni of Columbia University

Oct. 1932 - April 1948 - At New York Post-Graduate Medical School and Hospital:
Secretary to the Director of the Medical School, 1932-39;
Registrar of the Medical School, 1940-48, and sole administrative officer from May 1947 to March 1948 (when there was no director);
Assistant Secretary of the Corporation for the entire period.

December 30, 1942 - Married Mischa Meller.

July 1948 - July 1949 - Supervisor, alumni records office, University of Michigan.

April 1949 - Provided foster home for Alexander, 10-yr.-old war orphan from Latvia; legally adopted him in June 1951.

Nov. 1950 - Aug. 1952 - Secretary, Chemistry Department, University of Michigan

Jan.-Aug. 1954 - Secretary to Assistant Dean for Graduate and Postgraduate Education, Southwestern Medical School, Dallas, Texas

Present address: 2 Dunderave Road, White Plains, New York
Telephone: White Plains 6-2545

10/54

350
370

Employment Director
347 Madison
Hosp. Dear. Medical Center
$5000
[illegible] 4/21/55

HELEN WATTS MELLER - CURRICULUM VITAE

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Registrar of the Medical School, 1940-48, and sole administrative officer from May 1947 to March 1948 (when there was no director);
Assistant Secretary of the Corporation for the entire period.

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July 1948-July 1949 - Supervisor, alumni records office, University of Michigan.

April 1949 - Provided foster home for Alexander, 10-yr.-old war orphan from Latvia; legally adopted him in June 1951.

July 1949 - Nov. 1950 - At home in Ann Arbor.

Nov. 1950 - Aug. 1952 - Secretary, Chemistry Department, University of Michigan

Jan.-Aug. 1954 - Secretary to Assistant Dean for Graduate and Postgraduate Education, Southwestern Medical School, Dallas, Texas

Present address: 2 Dunderave Road, White Plains, New York
Telephone: White Plains 6-2545

10/54

file 5

ALAN NEIL
1765 - 1806

NANCY ELKINS
1770 - 1897

WILLIAM NEIL
1788 - 1870

HANNAH SCHWING
1794 - 1868

(my grandfather + one of seven children) — HENRY NEIL
1832 - 1929

JULIA STONE
1843 - 1918

WILLIAM
1864 - 1926(?) of cancer
son living

OLIVE
1866 - 1954
unmarried

HANNAH
1868 - 1967
my mother

ALICE
1870 - 1950
daughter living

Fay
1872 - 1955(?)
unmarried

FLORENCE
1873 - 1956(?)
2 daughters + son living
1 son killed in youth by automobile

Julia
1876 - ?
child between 35 + 40 years of age
1 son + daughter living
one son died in his 50's

THOMAS BEADLE — PHEBE STARBUCK
1799 - 1872 — 1805 - 1881

PATRICK MALLON — SOPHIA BEADLE
1823 - 1896 — 1835 - 1893
cancer

HANNAH — GUY MALLON (Carried 4 children)
1868 - 1951 — 1864 - 1933

Guy
1892 - 1893

MARY (nee)
1893
3 sons + 2 daughters living
one daughter died at 9 weeks
(Only death in this generation)

Neil
1895 -
unmarried

John
1896 -
3 sons living

Sophia
1897
2 sons + 1 daughter living

Patrick
1899 -
one daughter living

Horace
1900 - 1957
no children
(heart)

Hannah
1902 -
3 sons + 1 daughter living

Dwight
1906 - 1953
no children
cerebral hemorrhage

DAVID WATERMAN — ELIZA VAN VORST
1837-1919 1838-1921

(one sister died in infancy) FRANK WATERMAN — FLORENCE TOWER (one of 4 sisters - all lived to be over 80)
1895-1958 1867-1954

ALAN
1892-
see other page

LESLEY
1922-
2 sons living

RANSOM
1903-
unmarried

District 7-2480

file; 6

WASHINGTON SECRETARIAL SERVICE

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To The Council for Abolishing War

Hotel Dupont Plaza Hu3-6000 ext. 738

Dr. Szilard

This introduces Clarissa Yost whom we are sending to you as an applicant for your position as secretary

Date 9/25/62

This space is reserved for your own notes.

This applicant is not required to pay a fee for this recommendation or placement in your office. Tests have been given and references checked as a courtesy of The Washington School for Secretaries.

file 6

CLARISSA TILGHMAN YOST

4470 Salem Lane, N. W.
Washington 7, D. C.
Federal 7-6915

Home Address:
"Ferrybridge"
Easton, Maryland

JOB OBJECTIVE: A secretarial position--preferably direct contact with art, travel, and people. Would enjoy a position abroad.

EDUCATION: Graduate of the Holton-Arms School, Washington, D. C.
Attended Wheaton College, Norton, Massachusetts, for two years--interested in mathematics, physics, and history of art.
One-year course in fine arts and Italian at the Villa Mercede, Florence, Italy.
One-year course at the Washington School for Secretaries.

SECRETARIAL QUALIFICATIONS: I am a good stenographer; capable of producing neat, accurate transcripts; able to compose letters when familiar with subject matter; experienced in the use of the usual office appliances--switchboard, teletypewriter, adding and calculating machines, duplicating devices, and other office equipment; am familiar with basic filing systems--alphabetic, geographic, numeric, soundex, and triple-check; can handle financial records and banking transactions; understand the use of office reference books and research methods; know how to select and purchase office supplies; appreciate the responsibilities of a secretarial position and consider myself quite capable of handling details; have had experience in and enjoy meeting and dealing with people.

WORKING EXPERIENCE: Summer of 1959 taught private swimming lessons and worked in a small clothes store as a salesgirl; did part-time work at college--waitress, receptionist, etc. 1959-1960.

BACKGROUND AND INTERESTS: Have lived in Maryland, Illinois, and New Jersey; single and in good health; enjoy working with people both adults and children; have traveled throughout Europe and North America and enjoy traveling very much; speak Italian and understand French; interested in sailing, skiing (both kinds), hunting, swimming, history of art, and dramatics (Hexagon Club).

REFERENCES: Will be provided upon request.