LIST OF MASTER’S THESSES, 1953

ALDRIDGE, HAROLD WILLIAM.  
Psychology  
Level of Aspiration and Confidence in Judgment.

ALLEN, ERIK HALWAY.  
History  
A Study of the Metropolitical Visitation of Archbishop Laud, 1634-1636.

ANTKiw, STEPHEN.  
Physics  
An Optical Square Wave Generator.

ATTINGER, STEPHEN SAMUEL.  
Philosophy  
Eastern Religions and Christian Missions.

BALLING, WILLIAM JOSEPH.  
Chemistry  
The Oxidative Degradation of Acetals.

BAUMGARTEN, PETER KARL.  
Chemical Engineering  
Effect of Additives on Behavior of C₅ Hydrocarbons in Fur- 
fural Solutions.

BEAR, ROBERT SOUDERS.  
Chemistry  
The Concentration Effect in Urease Inhibition by Phthalic 
Derivatives.

BELL, KENNETH JOHN.  
Chemical Engineering  
Pressure Drop in a Baffled Heat Exchanger with Internal 
Leakage.

BENJAMIN, ALVIN CHESTER.  
Mechanical Engineering  
Development of a Chemical Laboratory Hood and Air Supply 
System.

BRYAN, GEORGE MCKINSTRY, JR.  
Physics  
A Measurement of the Viscosity of Air.

BUDLONG, WILLIS ARTHUR, JR.  
Physics  
A Radiofrequency Spectrometer for Observing Pure Nuclear 
Quadrupole Spectra in Solids.

CAMMACK, DAVID WALKER.  
Human Relations  
Church Activity in Community Affairs, a Survey of Wilming- 
ton, Delaware, and Elkton, Maryland, During the Early 
Summer of 1953.
CANNING, ROBERT VINCENT.  
Electrical Engineering  
A Study of a Linear Servomechanism.

CHETKOWSKA, ELSIE BARBARA.  
Education  

DAVIDSON, JAMES EDWARD.  
Inter-American Relations  
Market Research in Latin America.

DAVIS, EDWARD JAMES.  
Entomology  
Role of Insect-Control Operations in the Transmission of Virus Diseases of Sweet Pepper in Delaware.

DAVIS, ROBERT JAQUETTE, JR.  
Agriculture  
The Effects of Nitrogen Level and Source of Calcium upon the Decomposition of Organic Materials and the Availability of Cations in Norfolk Sandy Loam Soil.

DEVLIN, ARTHUR THOMAS.  
Physics  
A Radiofrequency Quadrupole Spectrometer for Observing Nuclear Resonance Absorptions in Solids.

DOUY, JOHN MARCEL.  
Chemical Engineering  
The Stress Corrosion of Brass and Some Other Alloys by the Smith and Pingel Method.

DUNN, DENNIS JOSEPH, JR.  
Mathematics  
On the Determination of Initial Fragment Velocity by the Moving Picture Camera Method.

EISSNER, ROBERT MONROE.  
Statistics  
A Method of Analyzing Sensitivity Data from "Contaminated" Populations.

FERRY, DANIEL BRADFORD.  
Economics  
Some Aspects of Labor Mobility: An Analysis of the Work Force of a Selected Industrial Plant.

FRANCIS, PETER SCHUYLER.  
Chemistry  
The Rates of Chromic Acid Oxidation of Several Monocyclic and Bicyclic Secondary Alcohols.

FUSCO, JOSEPH JOHN.  
Chemical Engineering  
Heat Transfer in a Baffled Heat Exchanger with Internal Leakage.
LIST OF MASTER’S THESIS, 1953

Geil, Harry William. Chemical Engineering
Liquid-Film Coefficients in a Partial Vaporizer.

Grandell, Peter Angelo. Education
A Follow-up Study of the January, 1938 Graduating Class of Wilmington High School, Wilmington, Delaware.

Hickman, William Robert. Plant Pathology
Studies on the Cause, Symptomatology, Prevalence, and Distribution of Dieback and Other Diseases of Oak Species in Delaware.

Hyde, Patricia Ann. Education
A Story of Puerto Rico at Sixth Grade Level.

Jacobi, William Mollett. Chemical Engineering
A Study of the Flow and Rates of Burning in Turbulent Low Pressure Flames.

Janoski, Edward John. Chemistry
A Correlation Between Catalyst Activity and Specific Magnetization.

Kerr, Carl Elwood. Mathematics
On Homeomorphic Approximations.

Kushibab, Frank John. Chemistry

Lange, Klaus Robert. Chemistry
The Quantitative Determination of Glycerol Triacetate (Triacetin).

Leik, James Wellington. Chemistry
Alkylation of p-Bromophenylhydroxymaleimide.

Luloff, Jerome. Chemistry
The Cleavage of α-Diketones with Potassium Cyanide.

Majewski, Theodore Eugene. Chemistry
A Study of the Synthesis of Alpha Alanyl Iminodiacetic Acid.

Marantz, Sidney. Chemistry
The Oxidative Degradation of Polyethylene.

Maroney, Samuel Patterson, Jr. Biological Sciences
A Study of Acetylcholinesterase in the Gill of Mytilus edulis L.
McClean, James Allen. Agriculture
The Use of Thymus Nucleic Acid as a Metabolic Regulator for Bovine Semen in Egg Yolk-Citrate Extender.

McGranaghan, Francis Richard. Chemistry
Kinetics of the Cyanide Ion Cleavage of Benzil and Substituted Benzils.

McLellan, Kenneth Neil. Agronomy

Mercer, Francis Robert. Education
Determining the Scope and Content of Farm Shop Courses on the Basis of What Farmers Consider Important.

Miller, Robert Kenneth. Chemistry
Attempted Syntheses of Geraniol.

Monaghan, William James, Jr. Mechanical Engineering
A Study of Factors Affecting Maintenance of the Fluorescent Lamp.

Morris, William Edgar. English
The Immediate Results of Milton’s Divorce Pamphlets.

O’Donnell, Joseph Robert. Physics
The Determination of the Coefficient of Viscosity of Air by the Capillary-Tube Method: A Study.

Owen, David Francis, Jr. Animal Industry
The Effect of Varying Levels of Hay and Corn Silage Consumption on Total Digestible Nutrient Intake and Milk Production.

Pascale, Donald Anthony. Chemistry
A Study of the Diels-Alder Reaction.

Perregrino, Joseph Anthony. Chemistry
Some Derivatives of N-Benzenesulfonylisonipecotic Acid.

Pih, Hao Hwei. Chemical Engineering
Fluidization of Fine Particles.

Piotrowski, Alfred B. Chemistry
Resonance Interaction in Small Ring Systems.
POLASKI, WILLIAM. Education
Three Years of the Diversified Occupations Cooperative Part Time Training Program at Wilmington High School.

PRAGER, PHILIP CARL. Mechanical Engineering
The Effects of Modified Valve Timing and Engine Cooling on the Knock-Limited and Cooling Characteristics of an Aircraft Engine.

PUCHER, MICHAEL. Physics
The Theoretical Calculation of the Electrostatic Field Gradient at the Nucleus in the Chlorine Molecule.

REYNOLDS, JOHN WILLIAM. Agriculture
The Evaluation of Antibiotics in Broiler Diets.

RICE, RICHARD DAVIS. Chemical Engineering
Partial Condensation of Mixed Vapors.

RICKERT, RUSSELL KENNETH. Education
An Inquiry into the Relationship of Tenure of Delaware Teachers to Selected Personal Factors.

ROSCH, FRANCIS CLIFFORD, JR. Mechanical Engineering
The Principles and Applications of Expansion Joints.

RUMP, ELLIS SAMUEL, JR. Chemistry
The Determination of the Molecular Structure of Amides by Physical Measurements.

RUSH, FRANK EDWARD, JR. Chemical Engineering
Vapor Density of Water-Acetic Acid Mixtures.

SCALA, SINCLAIRE MAXIMILIAN. Mechanical Engineering
The Determination of the Theoretical Profile Loss in a Cascade of Airfoils.

SCHILLY, RALPH CHARLES, JR. Chemical Engineering
A Chemical Analytical Approach to the Burning Velocity of Turbulent Flames Burning in Ducts.

SCOTT, HARVEY. Chemistry
The Synthesis of Isocyanate Yielding Intermediates.

SEGAL, HIRSH SHOLOM. Chemistry
The Solubility of Silver Bromide in Dilute Aqueous Ethanolamine Solutions.
SIEGEL, HENRY MORTON.  
*Political Science*

The Constitutional Aspects of Recent Administration of Immigration.

SILVA, FRANK JAMES.  
*Agriculture*

Side Dressing Corn With Anhydrous Ammonia at Various Growth Stages.

SNYDER, DONALD GRAEFF, JR.  
*Chemistry*

Studies on the Nucleic Acid Content of Haploid and Diploid *Habrobracon* During the Pupal Stages of Development.

SOBOLESKY, WALTER JOSEPH.  
*Biological Sciences*

Studies of Comparative Virulence in Mice of Four Strains of *Brucella abortus* with Special Reference to a D-valine Adapted Strain.

STRAUSE, STERLING FRANKLIN.  
*Chemistry*

A Polarographic Study of the Free Radical Oxidation of Acrylonitrile.

SWANN, WILLIAM BERNARD.  
*Chemistry*

Cathode Ray Polarograph.

TOMKINS, JAMES FRANCIS, JR.  
*Chemical Engineering*


VAUGHN, ROBERT DONALD.  
*Chemical Engineering*

Dead Space and Flame Front Thickness for Butane-Air and Methane-Air Flames at Reduced Pressures.

VOELKL, HANS RICHARD.  
*Chemistry*

A Study of Reactions Leading to the Formation of N-Carboxy-Beta-Amino Acid Anhydrides.

WEAVER, HENRY DAVID, JR.  
*Chemistry*

Mercuric Chloride Derivatives of Amines.

WEBB, CHARLES WESLEY.  
*Agricultural Economics*

An Economic Analysis of the Production of Processing-Tomatoes in Delaware, 1952.

WEISFELD, LEWIS BERNARD.  
*Chemistry*

Kinetics and Mechanism of the Rearrangement of Dibromocholesterol.
WHITE, EMERY ALBERT.  Electrical Engineering
An Improved Two-Transistor Binary Circuit.

WILSON, GEORGE ANDERSON.  Biology
The Effect of X-rays on the Development of the Secondary
Thickenings of the Protoxylem Vessels in the Primary Roots
of Zea Mays.

WINTRUP, MARJORIE.  Education
Trends in Education in Puerto Rico From 1898 to 1953.

WOOD, FRANK EVANS.  Chemical Engineering
Forced and Natural Convection in Vertical Walled Tubes.

WYETH, JOHN.  Chemistry
The Preparation of Metal Salts of Several Organic Acids.

YIENCER, JOHN HUTCHINSON.  Mathematics
The Reduction of Truncation Error by Extrapolation.

ZIMMER, GEORGE ARTHUR.  Mechanical Engineering
A Strain Gauge Accelerometer for Measurement of High
Accelerations.

ZITTERE, CORNELIUS PERSHING.  Mechanical Engineering
Analysis of Piping Requirements for High Pressure, High
Temperature Service.