LIST OF MASTER'S THESES, 1954

- Alberts, Henry Celler.

 A Study of Diffraction of Shock Waves in Hollow Models
 Analysis and Equations, Part I.
- Allman, James Martin. Mechanical Engineering
 A Critical Study of Friction in Shrink-Fit Assemblies.
- AMLING, HARRY JAMES. Horticulture
 A Comparison of Poultry Manure and Nitrate Fertilizers.
- Bannister, Ralph Richard. Chemical Engineering
 Flame Temperature, Absorptivity, and Emissivity Measurements from the Water Band Emission Spectra of the Near
 Infrared.
- Branch, Robert Edward. Chemical Engineering
 Heat Transfer Characteristics of Pseudoplastic Fluids.
- Brown, Stewart Cliff. Chemistry Polymerization of the Divalerate of 3-Butene-1,2-Diol.
- CHARSHA, RICHARD CARLISLE. Chemistry
 The Alkaline Permanganate Oxidation of a Branched Chain
 Primary Alcohol.
- CHILD, EDWARD TAYLOR. Chemical Engineering
 A Spectrophotometric Study of Methane, Carbon Monoxide
 and Hydrogen Flames.
- COHEN, LEONARD PARKER. Mechanical Engineering
 The Design of a Universal Air Conditioning System.
- Deverell, Merwyn Walter. Biological Sciences
 Studies on Virulence and Antigenicity of D-Valine Adapted
 Strains of Brucella Abortus.
- Diehl, Tennieson Handley Thomas. Chemistry Ethyl β-cyano-2,5-dimethyl-α-hydroxycinnamate.

Dyer, Edward John.

A Study of School-Community Planning in Two Elementary
Schools.

FEDDEMA, LEONARD WILLIAM.

Horticulture
The Use of Certain Growth Regulators and Anti-Transpirants
for Reducing Excessive Flower and Pod-Drop of Lima Beans.

Foss, Allan Stuart. Chemical Engineering Liquid Film Efficiencies on Sieve Trays.

Freuler, Fridolin Hermann. Mechanical Engineering
Load Distribution on Screw Threads and the Effect of Differential Pitch Thread.

Fyfe, Ian Millar.

Mechanical Engineering
The Coefficient of Static Friction and Surface Damage of Dry
Steel Contacts.

Gandy, Martha Lou. Early American Culture Joseph Richardson, Quaker Silversmith.

Hackley, Brennie Elias. Chemistry
A Study of the Catalytic Effect of Various Metal Chelates.

Hochgraf, Norman Nicolai. Chemical Engineering
Effect of Gas Rate on Bubble Tray Mass Transfer for a Gas
Film Controlling System.

Hollis, William Lemuel. Horticulture

The Effects of Maleic Hydrazide Applied as a Foliage Spray
on Certain Vegetable Crops in Delaware.

HOLZMAN, ALLEN LEONARD. Chemical Engineering
The Effect of Internal Leakage on Heat Transfer and Pressure
Drop in a Baffled Heat Exchanger.

Hughes, Ellen Carmichael.

English
The Female Wits: Mrs. Mary de la Riviere Manley, Mrs. Mary
Griffith Pix, and Mrs. Catherine Trotter Cockburn.

Hurd, Benjamin. Chemistry
Attempted Synthesis of 3-Ethyl-3 methoxy-4-tert-butyl-nhexane.

- Innis, Robert Ehlen.

 An Experimental Investigation of the Colorimetric Properties
 of Acid Aqueous Solutions of Sodium Chloroplatinate.
- Jastak, Sarah Rickards. Psychology
 The Role of Intelligence and Learning in Destructive Ability.
- Kedda, Edward John.

 Agronomy

 An Improved Method For the Rapid Determination of Available Soil Phosphorus.
- Kerns, Gordon Dale. Chemical Engineering
 The Influence of Surface Boiling on Heat Transfer by Convection: A General Method for Correlating Data.
- Kerr, Mae Kathryn. Mathematics On the Nature of Solutions of y'' + q(x)y = 0.
- KNOBL, GEORGE MARTIN. Chemistry
 Syntheses of Highly Branched Tertiary Aliphatic Alcohols.
- KNOX, ROBERT WINFIELD. Electrical Engineering
 A High Speed Multiple Input Encoder.
- Krusos, James Nicholas.

 Mechanical Engineering
 Heat Transfer Characteristics of Plain and Finned Tubes.
- Lackner, Henry Allyn. Physics
 Temperature Dependence of Microwave Absorption Line
 Widths
- LEAMAN, JOHN MARTIN. Mechanical Engineering
 An Experimental Investigation of the Pulsations in the Discharge of Spur Gear Pumps.
- Lins, Richard Henry.

 Mechanism for the Perbenzoic Acid Oxidation of Para-substituted β-Benzoylpropionic Acids.

Lipton, Sidney Meyer. Mechanical Engineering
Accuracy and Versatility Factors in the Design of Optical
Tracking Instruments.

Ludwig, Richard Eli.
Pyrrolidinetriones.

Chemistry

McLaughlin, James Franklin. Physics
Use of Nuclear Quadrupole Spectroscopy for the Determination
of Axes in Crystals.

MEEKER, THRYGVE RICHARD.

A Spectrophotometric Kinetic Study of the Condensation of Cinnamaldehyde with Acetophenone.

MILLER, OAKLEY BLOY.

Physics

Nuclear Quadrupole Resonances in Bromine and Iodine Compounds.

Moser, Paul Michael. Physics
An Investigation of Microwave Spectral Line Breadths of OCS,
BrCN and CH₃OH.

MULROONEY, EDWARD ALOYSIOUS. Mechanical Engineering
Design of a Corrosion Resistant Centrifugal Blower.

Murphy, Franklin James. Entomology
The Resistance of Insects to New Insecticides.

MYER, FREDERIC EDWIN.

A Study of the Needs of Out-of-School Young and Adult Farmers in Delaware with Regard to Agriculture Information and Training.

Norbet, Walter John. Political Science
The Vote for United States Representative from Delaware in
Relation to the Trend Toward Urbanization in the State
1990-1959.

Olson, Wendell Clarence. Mathematics
The Hugoniot Table for Air at Various Ambient Conditions.

PARTHEMORE, KEITH GORDON. Electrical Engineering
A Misfire Counter for Internal Combustion Engine Research.

- REED, JOHN CHARLES. Chemical Engineering
 Power Consumption in Non-Newtonian Fluid Flow.
- REMER, NORMAN ALBERT. Chemical Engineering
 Effects of Bubble Tray Design on Plate Efficiency.
- $\begin{array}{cccc} \textbf{Satterthwaite}, & \textbf{Stacy Taylor}. & & \textbf{Entomology} \\ \textbf{Development of a Miticide from Sugar Products}. \end{array}$
- Schwartz, Marvin David. Early American Culture
 The Meaning of Portraits: John Singleton Copley's American
 Portraits.
- Scriven II, L. Edward. Chemical Engineering
 The Effects of Liquid Rate and Weir Height on Gas-Film
 Plate Efficiency.
- Skalamera, John Joseph. Chemical Engineering Automatic Analysis of Particle Size Distribution Data.
- SMITH, WARREN NEWBOLD. Mechanical Engineering
 Air Pollution Abatement Procedures and Their Application to
 a Calcium Sulfate Dust Problem at E. I. duPont de Nemours
 & Company.
- Snow, Walter Alard. Mechanical Engineering
 The Dynamic Capacity of Reciprocating Ball Bearings.
- Springer, Frank B. $A gronomy \\ \text{Pre-Emergence Chemical Weed Control in Soybeans.}$
- STOGRYN, EUGENE LEO. Chemistry
 Preparation of Pyridylserinates.
- STOLBERG, MARVIN ARNOLD. Chemistry
 The Preparation of a New Class of Diacyl Hydroxylamines.
- Sweeney, John Andrew Hanna. Early American Culture
 The Corbit House at Odessa, Delaware.
- TIPPING, WILLIAM EDWARD, JR. Mechanical Engineering
 Dowtherm System Design and Controllability.

Vogt, Herwart Curt. Chemistry Benzoylcyanimide from N-Benzoyl-O-Ethylisourea.

Wantuck, Stephen John.

Catalytic Vapor Phase Alkylation of Xylenes with Methyl Alcohol.

WRIGHT, EVERETT JAMES. Chemistry
The Preparation of Pure Nitramines.

Wurster, Charles Frederick, Jr. Chemistry
The Reaction of Isopropylamine with Nitrous Acid.

YEAGLE, CHARLES FRANCIS. Economics
Absence Control: A Problem of American Industry.

ZIELINSKI, RICHARD MICHAEL. Chemical Engineering
A Study of Open Turbulent Flames Burning in an Inert
Atmosphere.