

LIST OF MASTER'S THESES, 1952

- APOIAN, HARRY. *Mechanical Engineering*
Thrust Forces on the Pulse Jet Engine as Affected by Tail
Pipe Dimensions.
- BANNISTER, ERNEST LEE. *Chemistry*
The Rates and Equilibria for Hydrogen-Deuterium Exchange
in Hydroxylic Compounds.
- BARTHELSON, NORMAN ADAM. *Chemical Engineering*
The Stability and Burning Velocities of Iso-Octane Air Flames.
- BEISER, WILLIAM CHRISTOPHER, JR. *Biological Sciences*
Effects of Methyl bis (beta-chloroethyl) Amine Hydrochloride
on Haploid and Diploid Embryos of *Habrobracon juglandis*
(Ashmead) during Cleavage and Subsequent Development.
- BOWEN, GEORGE WILLIAM, JR. *Education*
The Status of the Industrial Arts Teacher of Delaware.
- BRINGHURST, ANN WALKER. *English*
A Biographical and Critical Study of Hilda Morris (1888-
1947): American Novelist.
- BRODY, CHARLES. *Chemical Engineering*
The Measurement of the Temperature of Luminous (Soot Con-
taining) Flames.
- CHAPMAN, KENNETH GRANT. *Chemical Engineering*
The Design and Development of a Two-Probe Capacitometer
for the Study of Liquid Films.
- CHEN, YIN-FANG. *Economics*
A Statistical Investigation of Short Run Consumption Func-
tions for the United States, 1921-1949.
- CLARK, MARTHA WALKER. *Mathematics*
A Method for Finding Roots of a Matrix by the Use of
Difference Equations.
- COMEGYS, WALLACE ROBERT. *Plant Pathology*
Pepper Virus Diseases in Delaware.

- CONNELL, PAUL VICKERS, JR. *Philosophy*
Bertrand Russell's Empire.
- CONNER, ALBERT ZABEL. *Chemistry*
Vapor-Liquid Equilibria in Binary Systems Dioxane-Morpholine; Dioxane-Water; Morpholine-Water.
- CURRY, JOHN. *Chemical Engineering*
Fluid Dynamics of Bubble Trays: Performance of the Neches Tray.
- DAVIS, RUDOLPH ALAN. *Chemical Engineering*
A Study of Some Factors Affecting Mass Transfer on Sieve Trays.
- DEVERAUX, ELMER JOSEPH. *Economics*
The Role of Death and Gift Taxes in A State Tax System With Special Reference to Delaware.
- DOBERSTEIN, STEPHEN CARL. *Chemical Engineering*
Heat Transfer and Pressure Drop Across Tube Banks in the Transition Region.
- DREW, ISABELLA MILLING. *Chemistry*
The Preparation and Polymerization of Trimethyl-P-Styryl Ammonium Iodide.
- DRINKHOUSE, WALLACE BRUCE. *Chemical Engineering*
Heat Transfer to Boiling Liquids by Natural Recirculation in Vertical Tubes.
- EMMERT, RICHARD EUGENE. *Chemical Engineering*
Absorption and Desorption of Slightly Soluble Gases in Falling Liquid Films With and Without Rippling.
- FEILD, JOHN FLEMING WREN. *Chemical Engineering*
The Performance of a Tunnel Cap Tray.
- FRANCIS, DAVID WESSON. *Agriculture*
Observations on the Inheritance of Resistance to Newcastle Disease in New Hampshire Chickens.
- FRAZIER, ANNE CECILE. *Chemistry*
Anionic Polymerization of p-Nitrostyrene.
- FREY, DARYL D. *History*
Charles James Fox and America.

- GERHARD, JAMES CALVIN. *History*
A History of the Yellow Fever Epidemics in Wilmington
1793 — 1798 — 1802.
- GREEN, CHARLES GEORGE, JR. *Agriculture*
Some Factors Affecting the Fixation of Phosphorus in Coastal
Plain Soils.
- GUENVEUR, JAMES LAPENNE. *Electrical Engineering*
Electronic Miniaturization.
- HALL, RICHARD HAROLD. *Chemistry*
The Synthesis of 2, 2-Diethyl-1, 3-propanediamine and 5, 5-
Diethyl-2-hexahydro-pyrimidone.
- HANNA, RUSSELL JAMES. *Chemical Engineering*
Local Heat Flux in a Vertical Duct with Free Convection in
Opposition to Forced Flow.
- HERBENER, ROLAND EUGENE. *Chemistry*
5-Methyl-5-(β -Hydroxyethyl) Barbituric Acid.
- JOHNSON, RICHARD LEON. *Chemistry*
Synthesis of N-Substituted-2, 5-Oxazolidinediones.
- KAPLAN, HENRIETTE J. GORDON. *Education*
A Study of the Effectiveness of the Basic Education Training
Program of the United States Army.
- KATLAFSKY, BERNARD. *Chemistry*
The Low Temperature Spectra of Benzene and the C_8H_{10}
Benzene Isomers.
- KENNARD, ROBERT WAKELY. *Statistics*
The Statistical Analysis of a Medical Experiment.
- KESSELRING, ELIZABETH LORRAINE. *History*
Netherlands Music in the Church of the Renaissance.
- KOSAK, JOHN RICHARD. *Chemistry*
A Study of the System 1-Acylindene.
- LINDSEY, RICHARD STONE. *Agriculture*
Herbicides for the Control of Wild Garlic and Onion in Barley
and Wheat.
- MALMBERG, BEN OLAF. *Mechanical Engineering*
An Investigation of Critical Stresses at Spot Welds in Stainless
Steel.

- MALONEY, ARTHUR PAUL. *Chemical Engineering*
Construction of a Wetted-Wall Column for the Study of Simultaneous Heat Transfer and Counter-Diffusion.
- MAMMARELLA, ERNEST JOHN. *Mechanical Engineering*
The Heat Pump and Its Commercial Applications in the Philadelphia Area.
- MAYER, JOSEPH HOWARD. *Chemistry*
Low Temperature Absorption Spectra of Organic Compounds.
- MILLER, CHARLES BROADHART, JR. *Chemistry*
Distinction Between 2-Benzylideneoxazolidine-4, 5-dione and 4-Phenylpyrrolidine-2, 3, 5-trione.
- MILLER, EDWIN JOSEPH. *Physics*
A Microwave Resonant for Magnetron Stabilization.
- MORRIS, EVELYN ISAACS. *Education*
Decisions of the United States Supreme Court as Supplementary Reading Material in High School. (With Sara Jane Simpson).
- NICHOLS, JAYNE FRANK. *Mechanical Engineering*
A Comparison of the Results Obtained by Different Methods of Designing a Radiant Heating System (Panel Heating).
- NOLAN, EDWARD JOSEPH. *Chemical Engineering*
The Stability of Hydrogen-Isooctane Air Flames.
- O'CONNOR, RODERICK FRANCIS, JR. *Psychology*
A Study of Experimentally Induced Alcohol Consumption in the White Rat.
- OVERDEER, ABNER RAY, JR. *Psychology*
An Investigation of Some Relationships Between Levels of Aspiration and Susceptibility to Boredom.
- PAPADOPOULOS, ANTONIOS. *Chemical Engineering*
Partial Molal Enthalpies of the Lighter Hydrocarbons in Solution With Other Hydrocarbons.
- PICKETT, OSCAR ASA, JR. *Chemistry*
The Polymerization of 2-Ethoxybutadiene.
- POCILUYKO, ALEX. *Chemistry*
The Effect of Sodium Hydrosulfite on Celluronic Acids.

- REED, GEORGE WHITMAN. *Electrical Engineering*
Rotating Magnetic Fields.
- RITTENHOUSE, ABRAHAM HENRY, JR. *Psychology*
The Relationships Between Intelligence, Adjustments and
Moral Reasoning in Children.
- ROBINSON, MILTON OLIVER, JR. *Chemistry*
Ethyl β -Cyano- α -hydroxy- β -(4-quinolyl)-acrylate.
- SAPHIER, LAWRENCE LESTER. *Chemical Engineering*
Heat Transfer by Free Convection with Counterflow Between
Fluids and the Inside Wall of a Vertical Tube.
- SCHRYER, CHARLES HENRY. *Chemistry*
Polarographic Waves for Oxygen in Salt Solutions.
- SHAINES, ALFRED. *Chemical Engineering*
Heat and Mass Transfer Coefficients for the Air-Water System.
- SIMPSON, SARA JAYNE. *Education*
Decisions of the United States Supreme Court as Supple-
mentary Reading Material in High School. (With Evelyn
Isaacs Morris).
- SOUDER, LOUIS CHARLES. *Chemistry*
Dialkylpiperazinetriones.
- STEELE, ELIZABETH HETRICK. *History*
The Pioneer Newspaper of White Plains, New York, 1828 —
1829.
- STEIN, MORRIS LEVY. *Economics*
An Investigation of the Determinants of the Quarterly Level
of Consumption in the United States, 1939 — 1950.
- VALKO, NICHOLAS GEORGE. *Chemistry*
Organic Inhibitors of Urease.
- VELORIC, HAROLD SEYMOUR. *Chemistry*
Thermal Degradation of Trimethyl Phenyl Silane.
- VOSLOH, CARL JOSEPH, JR. *Agriculture*
Transportation Rates as Affecting Interstate and Intrastate
Movements of Delaware Grains and Feed Stuffs.
- WAGNER, ROBERT LINDBERGH. *Political Science*
The Organization of Municipal Administration in Wilmington,
Delaware.

- WALLER, GEORGE ROZIER, JR. *Chemistry*
The Application of the Reversion of the Molecularly Dehydrated Sodium Phosphates in the Filming of Calcium Pectinate.
- WATT, WILLIAM RUSSELL. *Chemistry*
Studies in Solvolysis of Substituted Cycloalkanes.
- WELLER, HARRY. *Biological Sciences*
Effect of Metabolic Inhibitors upon Oxygen Consumption and Ciliary Activity in the Ctenidia of *Mytilus edulis*.
- WHEATLEY, JAMES ROBERT. *Agriculture*
Effect of Certain Nutrient-Foliar Sprays on Tomatoes, Lima Beans, Potatoes, and Cantaloupes.
- WOLFE, HARRY WALTER, JR. *Chemistry*
The Synthesis of Methylene-1-methylcyclobutylcarbinol.
- WRIGHT, DAVID UMSTEAD, JR. *Physics*
The Surface Profile of a Thin Fluid Film in Gravitating Flow.