

# OSU

*Theses and Dissertations*

1966-1970

*Bibliographic Series Number 9*

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# Theses and Dissertations 1966-1970

Oregon State University

Compiled by

MARGARET BASILIA GUSS

A Departmental and Author Index of  
Masters' Theses and Doctoral Dissertations  
Accepted by the Graduate School

**Bibliographic Series Number 9**

*Corvallis*: OREGON STATE UNIVERSITY PRESS

## PREFACE

AT OREGON STATE UNIVERSITY, graduate candidates receive their advanced degrees at the annual Commencement in June. This list includes all candidates who submitted theses or dissertations as a partial fulfillment of their requirements and who received their degrees from June 1966 through June 1970. All of these studies were prepared under the direction of Dr. Henry P. Hansen, Dean of the Graduate School.

The increasing number of titles in the 1960's reflects the continuing expansion of Oregon State University as a center of research and graduate study. The previously published list covered a period of six years and included 1,388 titles, an average of 231 a year. This list covers only five years but includes a total of 1,715 titles, an average of 343 titles a year.

All theses and dissertations accepted since 1932 may be consulted in the University's William Jasper Kerr Library. Masters' theses are available for interlibrary loan. Copies of all doctoral dissertations since 1957 may be obtained either in microfilm or microfilm printout from University Microfilms, Ann Arbor, Michigan 48106.

The first compilation was published by the Oregon State System of Higher Education and covers the years 1932-1942 for all institutions in the System. Subsequent lists for Oregon State University have been published for 1943-1959 and for 1960-1965 and are available from the University Press. See list in back of this volume.

In this compilation titles are listed by subject matter areas with theses given first followed by dissertations in chronological order. An author index and cross references are provided to assist in locating titles.

RODNEY K. WALDRON  
*Director of Libraries*

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## AGRICULTURAL ECONOMICS

### 1966—Masters

- Duarte, Arthur Culver. The Economics of Mechanical Harvesting of Tomatoes in the Salinas Valley, California.
- Gibbs, Kenneth Charles. An Empirical Analysis of Consumer Spending in the Area of Newport and Toledo, Oregon.
- Harrison, Virden Leslie. An Analysis of the Costs of Producing Grade A Milk in the Portland, Oregon and Boise, Idaho Areas.
- Koonsap, Teerawit. Credit Unions in Thailand.
- Mbatia, Oliver Lee E. An Appraisal of Agricultural Investment in the 1964-1970 Kenyan Development Program.
- Middlemiss, Willis Earl. The Economic Feasibility of Utilizing Irrigable Willamette Valley Floor Land for Beef Production.
- Njoku, Athanasius Onwusaka. A Credit System for Rural Nigeria.
- Srinives, Kamol. Financing Thailand's Economic Development Plan with Special Reference to the Contribution of Agriculture.
- Wood, George E. Economic Considerations in Marketing Oregon Grain: Factors Affecting Columbia Basin Producers.
- Yang, Tao-Chung. Economic Aspects of Agricultural Land Reform on the Island of Taiwan.

### 1967—Masters

- Bartram, Richard Donald. Cost Analysis of Two Techniques of Grading, Sizing and Packing of Red Delicious Apples in North Central Washington.
- Bromley, Daniel Wood. An Interindustry Analysis of the Importance of Grazing on Federal Lands to the Economy of Grant County, Oregon.
- Lange, John Erwin. An Economic Analysis

of Enterprise Combinations on Farms in the Willamette Valley.

Shepard, Lonnie Blair. A Geometric Interpretation of Substitutable, Independent, and Complementary Commodities in Consumption.

Van Dam, John Anthony. Feedlot Manure Processing and Disposal—an Economic Analysis of a Los Angeles County, California Operation.

Wix, John Robert. Some Economic Considerations in Dungeness Crab Marketing.

### 1968—Masters

- Baker, Forrest Sandusky, Jr. A Study of Transportation Practices and Needs in the Willamette Basin, Oregon.
- Eckert, Lary Cornell. The Feasibility of Wholesaling Fresh Apples and Pears in Palletized Five Bushel Bulk Containers.
- Konanta, Wilkorn Salyajivin. Corn Marketing in Thailand.
- Norgaard, Richard Bruce. Streamflow and Deposition in the Lower Columbia River: a Partial Physical Production Function with an Economic Application.
- Rachapaetayakom, Linchong. Some Impacts of the Rice Export Tax on the Rice Economy in Thailand.
- Unti, James Glen. The Use of a Dynamic Linear Program for Selecting Optimum Cropping Patterns on a San Joaquin Valley, California, Farm.

### 1969—Masters

- Bowman, Thomas Michael. An Economic Study of Irrigation Potential for Columbia Plateau Farms in Oregon.
- Coulston, Lane Edward. An Economic Analysis of Alternative Herbicide Practices.
- Fabiyi, Ebenezer Adeyemi. Changes in Input, Output, and Productivity of Oregon Farms.

Hass, Stephen Peter. An Analysis of Packer Marketing and Pricing in the Oregon Filbert Industry.

Matienzo, Rodolfo del Mundo. A Study of Membership of Fourteen Active Rice Farmers' Cooperative Marketing Associations in the Central Plain of Luzon, Philippines.

Roca, Gaston Harold. Economic Evaluation of a Social Investment in Natural Resource Development: Water.

Stredel, Juan Bautista. The Agricultural Support Price Program in Venezuela and Its Consequences in Economic Development.

Wentzel, Roland Karl. Unification Decisions of a Cooperative Consolidation.

### 1970—Masters

Collin, Theodore George. An Interindustry Analysis of the Effects of a New Industry on the Public and Private Sectors in Clatsop County, Oregon.

Huetting, Gerald Walden. A Study of the Feasibility of Establishing a Beef Packing Plant in Central Oregon.

Jaksch, John August. Effects of Air Pollution on Residential Property Values in Toledo, Oregon.

Long, Donald Eugene. An Evaluation of Family Income Variation on Low-Income Farms in Western Oregon.

Marshall, Terry Dean. An Examination of Cooperative Equity Certificate Transferability and Farmer Preferences for Selected Means of Financing Cooperatives.

Wood, William Robert. A Demand Analysis of Processed Salmon from the West Coast.

### 1966—Doctors

Norman, David Wallace. Natural Resource Characteristics as Related to the Pattern of Agricultural Income in Certain Specified Areas of the United States.

Stevens, Joe Bruce. A Study of Conflict in Natural Resource Use: Evaluation of Recreational Benefits as Related to Changes in Water Quality.

### 1967—Doctors

Gilbert, Howard Alden. An Integration of Market Structure Theory and Decision Making in Selected Agricultural Industries.

Sokoloski, Adam Anthony. Welfare and Institutional Economics as Tools in the Analysis of an Area Water Resource Management Problem.

### 1968—Doctors

Affif, Saleh. Food Supply and Economic Development in Indonesia, Problems and Prospects.

Gee, Clendon Kerry. An Analysis of Factors Which Contribute to Differences Between Actual and Programmed Optimum Organization on Individual Farm Units.

Cramer, Gail Latimer. An Economic Analysis of the Merger Component in the Growth of Agricultural Cooperatives.

Richards, Jack Arthur. An Economic Evaluation of Columbia River Anadromous Fish Programs.

Wheeler, Richard Orin. Optimum Cattle Inventory Systems Under Conditions of Certainty and Uncertainty—Southeastern Oregon.

### 1969—Doctors

Bromley, Daniel Wood. Economic Efficiency in Common Property Natural Resource Use: a Case Study of the Ocean Fishery.

Deal, Emit Bernard. Economic Feasibility of Synchronization of Estrus for Selected Beef Cattle Ranches.

Gibbs, Kenneth Charles. The Estimation of Recreational Benefits Resulting from an Improvement of Water Quality in Upper Klamath Lake: an Application of a Method for Evaluating the Demand for Outdoor Recreation.

### 1970—Doctors

Beattie, Bruce Robert. Economic Efficiency and Distributive Consequences of Interbasin Water Transfers: a Framework for Analysis.

Guedry, Leo Joseph, Jr. The Role of Selected Population and Site Characteristics in the Demand for Forest Recreation.

Johnson, James Boynton. An Empirical Test of the Use of Expected Marginal Revenue as an Estimate of Total Cost Functions.

Kim, Han Joo. An Analysis of Investment in the United States Beef Cattle Industry.

Kourouklis, Stavros D. An Analysis of the Intraseasonal Demand for Bartlett Pears.

Morris, Owen Richard. Conceptualization of Nonmarket Events and Phenomena into an Economic Theory of Consumer Behavior.

Parlour, James Wilson. A Study of the Economics of Force Molting in Commercial Egg Production Under Conditions of Certainty and Uncertainty.

## AGRICULTURAL EDUCATION

### 1966—Masters

- Daugherty, Ronald DeWayne. Agricultural Education Needs as Expressed by Public Secondary School Personnel.
- Galbraith, Gordon Gwynne. A Follow-Up of High School Graduates in Hood River County.
- Heilman, Casmer Franklin. Utilizing Student and Employment Data in Vocational Education Planning.
- Multanen, Monty Edward. Off-Farm Agricultural Occupations in Yamhill County.
- Nichols, Frank Karl. A General Shop Course of Study for Oregon High Schools.
- Porfily, Charles Maben. Agricultural Education Recruitment Study and Proposal.
- Smyth, David Lloyd. A Work Observation Program for Classroom Enrichment at the Eighth Grade Level.

### 1967—Masters

- Ferguson, John Marshall. A Follow-Up of the Graduates of Agricultural Education at Oregon State University.
- Helmick, Robert W. Factors Determining the Establishment of Area Vocational Schools for Tillamook and Clatsop Counties.
- Lacy, James Virgil. A Study of the Employment Opportunities, the Human Resources and Vocational Education Resources in Klamath County.
- Lyda, Harry Lee. A Comparison of High School and College Grades.
- Raynalds, David Palmer. Preparation of Vocational-Technical Teachers in Selected Community Colleges.
- Way, Robert Floyd. What Oregon Agriculture Teachers Say About Teaching Basic Agriculture by Use of Principles.

### 1968—Masters

- Atwood, Melvin Boyd. The Utilization of School-Owned Property in the Vocational

### Agriculture Curriculum.

- Coats, William Ronald. The Internal Organization and Administration of Multi-Teacher Departments of Agricultural Education.
- Fraser, William Stewart. A Study of Off-Farm Agricultural Work Experience Programs in Oregon High Schools.
- Keesler, Norman Glen. Competencies Needed in Off-Farm Agriculture Based on a Survey of Agricultural Industry in the Vale Area.
- Leffel, John Alvan. Guidelines for the Development of a Livestock Extension Program for Part-Time Farmers.
- Streight, Gene Thomas. A Study of the Needs for an Agricultural Education Program in the Salem Junior High Schools.

### 1969—Masters

- Ahlstrom, John Heryford. Coordinating Junior and Senior High School Vocational Agriculture Programs.
- Davis, Ernest Louis. Present and Emerging Agricultural Occupations in Yamhill County.
- Davis, Garth Earl. Identification of Off-Farm Agricultural Occupations in Umatilla County, Oregon.
- Ghaffari, Gholamhossein. Guidelines for Improving Agricultural Extension Service in Iran.
- Olsen, Paul Egbert. A Follow-Up of State Farmer Degree Winners Compared with Other FFA Members.

### 1970—Masters

- Elden, Robert Harrison. A Follow-Up Study of Crater High School Graduates.

### 1970—Doctors

- Loewen, Curtis Eugene. A Curricular Model in Ornamental Horticulture for Vocational Agriculture in Oregon.

## AGRICULTURAL ENGINEERING

### 1966—Masters

- Taylor, Paul Arthur, Jr. A Study of Simulated Water Table Fluctuations in a Tile Drained Amity Soil.

### 1969—Masters

- Nduaguba, Dominic Chika. The Uniformity Coefficient: a Function of Sprinkler Types, Pressure Spacings and Wind Conditions.



## ANALYTICAL CHEMISTRY

### 1966—Masters

- Nixon, Richard Allen. Chronopotentiometry of Sm(III) and Pm(III) in Molten LiCl-KCl Eutectic.  
Wendlick, Joseph David. Design of a Digital Repetitive Titrator.

### 1967—Masters

- Knarr, Richard Dennis. The Design and Evaluation of a Recording Conductometric Titrator.  
Sandoz, Dennis Paul. Studies of Electrode Processes with Voltage Scanning Coulometry.  
VanSanten, Richard Theodore. The Analytical Application of the Galvanic Dissolution of Niobium and Tantalum: the Determination of Nitrogen.

### 1968—Masters

- Shafer, Howard Price, II. Simultaneous Spectrophotometric Determination of Calcium and Magnesium with Arsenazo III.

### 1969—Masters

- Flugstad, Paul Morris. Investigation of the Relationships Between Laser Energy and Vaporized Target Material, Continuum Intensity, and Plume Energy in Laser Plume Spectroscopy.

### 1970—Masters

- Coker, Marjory Carol. The Study of Fluorine

- Tantalum Species by Solvent Extraction.  
Griffin, Donald Alan. The Crystallography of Aldrin and Dieldrin Insecticides.

### 1966—Doctors

- Dennison, James Eugene. Gas Chromatography of Metal Halides.  
Lindbeck, Melven Raymond. Controlled Potential Coulometry in Nonaqueous Solvents—Application to the Karl Fisher Determination of Water and to Aromatic Nitro Compounds in Dimethylsulfoxide.  
Warren, Herbert Dale. Investigation of the Complexes of 3-(2-Arsonophenylazo)-4,5-Dihydroxy-2,7-Naphthalenedisulfonic Acid, "Arsenazo," with Alkaline Earths.

### 1968—Doctors

- Claeys, Robert Raymond. Flame Ionization Detection of Hydrocyanic Acid Analysis of Trace Aqueous Solutions.

### 1969—Doctors

- Holmes, Ivan Gregory. An Investigation of the Absorption Spectra of EGTA Metal Complexes and the Development of Spectrophotometric Methods for the Analyses of Copper, Erbium, Europium, Holmium, Neodymium, and Praseodymium.

### 1970—Doctors

- Petcoff, Darrell George. Stationary Electrode Voltammetry and Chronoamperometry in an Alkali Metal Carbonate-Borate Melt.

## ANIMAL SCIENCE

### 1966—Masters

- Bahn, Alan Volker. Influence of Isolated Alfalfa Coumestrol on Growth of Lambs.  
Tancred, Barry John. Effect of Dimethyl Sulfoxide on Nutrient Digestibility.  
Turner, Harley Allen. Morphology of Epididymal Spermatozoa from Inbred and Line-cross Bulls.

### 1967—Masters

- Bailey, David Eugene. Absorption and Metabolism of Iron as Related to the Cotton Fur Syndrome in Mink.  
Cooper, Gordon Jay. Estrogen Regulation of

- Pituitary Function in the Gonadectomized Sheep.  
Lobo, Carlos Alfredo. Effect of Rumen Fluid Upon the Preservation of Bovine Spermatozoa.  
Reeves, Jerry John. Some Hormonal Factors Associated with the Regulation of Ewe Reproductive Patterns.

### 1968—Masters

- Campbell, Michael Dennis. Involvement of Inorganic and Organic Components in the Laxative Effect of Cane Final Molasses.  
Caster, John Eugene. Response of Feedlot Heifers to Certain Exogenous Hormones.

Costley, Gary Edward. An Improved Chemical Method for Measuring Intensity of Hair Pigmentation.

Keyune-Sendagi, Aloysius Lloyd. Performance of Dairy Cattle Under Two Feeding Regimes, Dry Lot and Irrigated Pasture.

Pate, Findlay Moye. Energy-Protein Relationships in High-Fat Rations for Growing-Finishing Swine.

Patton, Westley Ralph. Some Effects of Diethylstilbestrol on Sexual Maturation and Growth of Male Calves.

Wise, William Robert, Jr. Nutritional Interrelationship of Cobalt and Selenium in Lambs and Weanling Rats.

#### 1969—Masters

Anderson, Daniel Craig. Biochemical Evaluation of Silage Corn Varieties.

Goatcher, William Donald. Taste Responses in Sheep.

Hamstreet, John Leslie. Response of Market Hogs to Periodic Changes Among Nutritionally Similar Rations.

Martinez, Andres. Stimulatory Effect of Trace Elements on Cellulose Digestion by Washed Suspensions of Rumen Microorganisms.

Osland, Robert Birger. Regulation of Ovine Pituitary Function with Estrogen Alone and in Combination with Progesterone.

#### 1970—Masters

Chakraborty, Prabir Kumar. Synchronization of Estrus and Subsequent Conception Rates in Dairy Heifers and Rats Following Treatment with Melengestrol Acetate.

Crawford, James Charles. Taste Responses in Columbian Black-Tailed Deer (*Odocoileus hemionus columbianus* Richardson).

French, Larry Robert. The Effects of Exogenous Melatonin on the Plasma Levels of Interstitial Cell Stimulating Hormone in Sheep.

Lind, Ronald Egnard. Lactational Response of Holstein Cows to Oral Administration of a Synthetic Glucocorticoid.

Pendell, Herschel Walden. Cardiac Calcification and Lipid Changes in the Cotton Rat (*Sigmodon hispidus texianus*).

Ufford, Glen Raymond. Interrelationships Among Characteristics of Body Form and Milk Production in Dairy Cattle.

Wright, Rodney Joseph. The Effect of Varying Levels of Readily Available Carbohydrates on Urea Utilization.

#### 1966—Doctors

Bull, Richard Charles. A Metabolic Function of Selenium, Assessed with Rat Liver Homogenates.

Idris, Omer Fadle. Comparative Aspects of Copper Metabolism as Reflected by the Composition of Animal Tissues.

Klett, Ramon Hollis. A Comparison of *In Vivo* and *In Vitro* Techniques for the Evaluation of Varying Roughage-Concentrate Rations.

Pryor, William Joseph. Some Techniques for Determining Fecal Output and Digestibility of Range Forage by Cattle.

Thompson, Robert Charles. The Fatty Acid Composition of Certain Bovine Tissues.

#### 1967—Doctors

Alpan, Suleyman Orhan. Interrelationships of Magnesium, Potassium, and Nitrogen in Hypomagnesemia.

#### 1969—Doctors

Cheeke, Peter Robert. Influence of Dietary Selenium on the Distribution of Tritium-Labeled Vitamin E in the Rat.

#### 1970—Doctors

Costley, Gary Edward. Involvement of Formaldehyde in Depressed Iron Absorption in Mink and Rats Fed Pacific Hake (*Merluccius productus*).

Fowle, Kenneth Edward. Tissue Analysis and Winter Feeding of Deer.

Goatcher, William Donald. A Comparison of Taste Responses in Pygmy Goats, Normal Goats, Sheep and Cattle.

Hoversland, Arthur Stanley. Hemodynamic Adjustments Associated with Pregnancy in Pygmy Goats.

Kutches, Alexander Joseph. Influence of Pesticides on Rumen Microbial Metabolism.

Nayak, Ramesh Kadbet. Ultrastructural and Cytochemical Studies of the Oviduct.

Patton, Westley Ralph. Ruminant and Microbial Physio-Chemical Response to Abrupt Ration Changes as Influenced by Chemical and/or Biological Means.

Pinjani, Moti. Electrocardiograms and Related Variables of Dwarf Beef Cattle.

## BIOCHEMISTRY AND BIOPHYSICS

## 1966—Masters

- Ellis, Robert William. Sulphydral and Disulfide Changes in Young Wheat Seedlings During Vernalization.
- Philleo, William Wallace. The Effect of 2,4-Dichlorophenoxyacetic Acid on the *In Vivo* Metabolism of Acetate in Rats.
- Salman, Howard Andrew. The Nature of the Pentose Phosphate Pathway in Strains of *Saccharomyces cerevisiae*.

## 1967—Masters

- Chan, Timothy Ming-Wai. Epoxidation of Aldrin by Rainbow Trout Liver Microsomes.
- Chung, Po-Luen. The Urea Denaturation of Bovine Serum Albumin, Polyglycyl Bovine Serum Albumin and Poly-L-Phenylalanyl Bovine Serum Albumin.
- Massey, Thomas Harding. A Comparative Study of the *In Vitro* Localization of Mercury from Phenyl Mercuric Acetate and Mercuric Salt in Rat Kidney and Liver Subcellular Fractions and Their Effect on Alkaline Phosphatase.
- Venier, Lynn Corrine. Preparation and Comparative Solubility of Poly-L-Tyrosyl Lysozyme and Poly-O-Methyl-L-Tyrosyl Lysozyme.
- Wu, James Tsai Yuan. Solubilization of Acid Nonextractable Flavin-Linked Protein by Cyanide.
- Wu, Lily Henson Liu. Preparation and Properties of Polyglycyl Insulin.
- Yamasaki, Edith Fusayo. Some Properties of Diamine Oxidase from *Pisum sativum*.

## 1968—Masters

- Conrad, Charles Wayland. The Effect of 2-Deoxyglucose on Hexose Metabolism in *Saccharomyces cerevisiae*.
- Couch, David Bruce. The Effect of Streptomycin on Proline Synthesis in *Escherichia coli*.
- Craig, Albert Morrie. Size Criterion for Inter-calculation of Hydrocarbon in DNA.
- Hartz, Judith Ann. Synthesis of Glutamic- $\gamma$ -Semialdehyde in *Escherichia coli*: Isolation of a Low Molecular Weight Compound Required for *In Vitro* Synthesis.

Miaullis, John Bartley. *In Vivo* and *In Vitro* Metabolism of 4-Benzo(b)thienyl-N-Methylcarbamate and 4-Hydroxy Benzothio-phenyl by the White Rat.

- Olson, Kenneth Charles. Biological Activity of Avian Myeloblastosis Virus RNA in Cell-Free Systems for Protein Synthesis.
- Walsh, Marilyn Ruth. A Study of the Biosynthesis of Sterols and Related Compounds by a Bovine Aorta Preparation.

## 1969—Masters

- Chang, Yue-Guey Lee. A Comparison of the Rates and Paths of Metabolism of 2,4-Dichlorophenoxyacetic Acid in Resistant and Susceptible Plants.
- Haley, Lawrence Robert. A Chromatographic Method for Fractionating Histone and Ribosomal Protein.
- Ong, Visitation Yu. The *In Vivo* Metabolism of Ethyl-N,N-di-n-propylthiol-carbamate in Rats.
- Soo, Alexander Chin-Loon. The Effects of 1,1,1-Trichloro-2,2-bis(p-chlorophenyl) Ethane on the *In Vivo* Metabolism of Acetate in Rats.
- Swindell, Robert Malcolm. Kinetic Studies of the Oxygen Requirement of Some Amine Oxidases.

## 1966—Doctors

- Johnson, Morris Alfred. Evidence for a Soluble Intermediate of Oxidative Phosphorylation Isolated from Cabbage Mitochondria.
- Lynn, Jackson. Preparation and Properties of Poly-L-Tyrosyl Acetamidinated Ribonuclease.
- Nishikawa, Alfred Hirotoshi. Purification and Characterization of a Cytoplasmic Apyrase from Plumules of *Pisum sativum*.
- Steele, Wilbert Francis. Oxidative Phosphorylation and Related Reactions in Particulate Fractions from Insects.

## 1967—Doctors

- Cheung, Geoffrey Peter. Enzymatic Studies of the Prenatal Chick with Special Reference to the Multiple Forms of Liver Soluble NADP-Linked Isocitric Dehydrogenase.
- Ikedu, George Joji. Glucose Catabolism in Mung Bean *Phaseolus aureus* Seedlings.

**1968—Doctors**

- Jacobsen, Donald Weldon. The Estimation of Glucose Pathways in *Saccharomyces cerevisiae* by the Catabolic Rate Method.
- Kettman, John Rutherford, Jr. Certain Aspects of Electron and Coupled Energy Transfer in Cardiac Muscle.
- Lewis, Roger Allen. The Purification and Characterization of a Ribonuclease from Bovine Aorta.
- Milne, David Bayard. Metabolism of Copper in Blood and Liver as Influenced by Species and Diet.
- Yong, Fook-Choy. Studies on Hematin *a*, Its Interactions with Poly-Amino Acids and Apo-Cytochrome *c*-Oxidase.

**1969—Doctors**

- Casillas, Edmund Rene. Carnitine and Derivatives in Embryonic Chick Tissues.
- Evet, Jay Fredrick. The Interaction of Polylysine with DNA as Studied by Polarization of Fluorescence.
- Hucko-Hass, Jacqueline Elizabeth. Studies on the Inhibition of Bovine Plasma Amine Oxidase by Hydrazines.
- McParland, Reginald Harry. Purification and Characterization of an Alkaline Phosphatase from *Halobacterium salinarum*.
- Miller, Terry Lee. Physical and Chemical Properties of Ribonuclease T<sub>1</sub>.
- Quinn, Richard Paul. The Purification and Characterization of the Fructose-1,6-Di-

- phosphate Aldolase from *Bacillus stearothermophilus* (NCA 2184).
- Tiffany, Thomas Oliver. Some Physical Studies on Ribonuclease-S and Its Component Parts, S-Protein and S-Peptide.

**1970—Doctors**

- Anderson, Martin Michael. Deoxyribose-Phosphate Aldolase and the Biosynthesis of DNA in the Chick Embryo.
- Ellis, Robert William. Some Biochemical Studies of Phenylmercuric Acetate and Mercuric Acetate Toxicity in Rats.
- McCoy, Kim Edward Monroe. Selenomethionine and Methionine in *In Vitro* Rabbit Reticulocyte Hemoglobin Synthesis and in *Escherichia coli* tRNA Aminoacylation.
- Munn, Hector John. Patterns of Lipid Changes with Growth of Chick Sciatic Nerve.
- Prough, Russell Allen. The Conversion of Some Monoalkylhydrazines to Their Corresponding Hydrocarbons by a Hepatic Microsomal Enzyme System in Rat.
- Thompson, William Carl. The Effects of Actinomycin D on the Primary and Secondary Immune Responses Induced *In Vitro*.
- Watson, Kenneth Fredrick. Purification of a Ribonucleic Acid-Dependent Ribonucleic Acid Polymerase from Leukemic Cells.
- Wittkop, Judith Anne. The Oxidative Demethylation of Certain N-Methylhydrazines by Microsomal Liver Enzymes.

**BIOPHYSICS**

See Biochemistry and Biophysics

**BOTANY**

See also Phycology, Plant Ecology, Plant Pathology,  
Plant Physiology, Systematic Botany

**1966—Masters**

- O'Flaherty, Larrance Michael. Requirements for the Growth and Maintenance of *Aphanizomenon flos-aquae* in Culture.
- O'Flaherty, Mary Louise. Taxonomy of Some

Endophytic and Epiphytic Genera of Phaeophyta on the Oregon Coast.

**1967—Masters**

- Sisson, Warren Elmer, Jr. Cambial Divisions in *Pseudotsuga menziesii*.

**1968—Masters**

- Drew, Stephen Ernest. Soil Moisture Depletion Trends Under Five Plant Species Present on the Douglas-Fir Clear-Cuts of Mary's Peak, Oregon.
- Laird, Peter Paul. Factors Influencing the Production and Survival of Inoculum of *Elytroderma deformans*.
- Lee, Chun-Shu. Comparative Wood Anatomy of the Fagaceae of Taiwan.
- Tyrl, Ronald Jay. Cytogeography of *Achillea millefolium* L. in Western Oregon.

**1969—Masters**

- Leuthner, Shirley Mae. Lichen Distribution in Oregon Coastal Dune Communities.

**1970—Masters**

- Cox, Stephen William. Microsite Selection of Resident and Invading Plant Species Following Logging and Slash Burning on Douglas Fir Clear-Cuts in the Oregon Coast Range.
- Madarash, George Russell. Effects of Near-Ultraviolet Radiation on Changes in the Biochemical Composition of *Verticillium albo-atrum*.

**1966—Doctors**

- Lyford, John Higgins, Jr. Primary Productivity and Community Structure of an Estuarine Impoundment.

**1967—Doctors**

- Volk, Sherry Louise. Mineral Requirements for the Growth of *Anabaena spiroides* In Vitro.

**1968—Doctors**

- Anderson, James David. Comparative Gibberellin Relationships in Tall and Dwarf Peas (*Pisum sativum* L.).
- Estes, James Russell. Cytotaxonomic Studies in the *Artemisia ludoviciana* Polyploid Complex of the Pacific Northwest.
- Mantai, Kenneth Edward. The Effects of Ultraviolet Irradiation on the Photosynthetic Apparatus.

Pratt, Lee Herbert. Light-Induced Absorbance Changes and Partial Reactions of Photosynthesis in Mutants of *Scenedesmus obliquus*, Strain D<sub>3</sub>.

Robinson, Myles Canby. Growth and Replacement Patterns Occurring Among Selected Dominant Species Associated with Plant Succession on Douglas Fir Clear-Cuts.

Rose, Frederick Louis, Jr. Effects of the Insecticide Dieldrin on Benthic Algae in Laboratory Streams.

Wirtz, Felicia Pietrykowski. Anatomical Studies of *Pinus ponderosa* Laws. Infested by *Elytroderma deformans* (Weir) Darker.

**1969—Doctors**

Baker, Gerald Merritt. The Parasite *Aspergillus flavus* Link and Other Fungi of the Biosphere of the Alkali Bee *Nomia melanoderi* Ck11, in Eastern Oregon and Washington.

Gregory, Robert Aaron. Seasonal Pattern of Secondary Growth in Stems of Northern White Spruce (*Picea glauca* (Moench) Voss).

Robinson, Andrew Frederick, Jr. Distribution of Understory Species in Relation to Maximum and Minimum Tree Influence in the Montane Forest of the Central Oregon Cascades.

Saigo, Roy Hirofumi. Anatomical Changes in the Secondary Phloem of Grand Fir (*Abies grandis* (Dougl.) Lindl.), Induced by the Balsam Woolly Aphid (*Adelges piceae* Ratz.).

Sherman, Barbara Jane Powell. Benthic Algal Communities of the Metolius River.

Sherman, Robert James. Spatial and Developmental Patterns of the Vegetation of Black Butte, Oregon.

**1970—Doctors**

DeMort, Carole Lyle. The Culture and Biochemical Analysis of Some Estuarine Phytoplankton Species.

Larson, Ann Marie. Development of the Storage Organ of *Brassica campestris* L.

Martin, John Varick. Salinity as a Factor Controlling the Distribution of Benthic Estuarine Diatoms.

## CHEMICAL ENGINEERING

## 1966—Masters

Brown, Gary Leigh. The Rise of Large Gas Bubbles Through Tubes Filled with Viscous Liquids.

Kalwani, Shantukumar Laxmidas. Phase Equilibria for the Sucrose-Potassium Chloride-Water System on Dowex 50 W X 4 Resin ( $K^+$ ) at 90°C.

Prabhu, Kumbha Narasimha Srinivas. The Effect of Concentration on Diffusion Coefficients in Binary Gaseous Systems.

## 1967—Masters

Hundley, Gary Lee. Performance of a Packed Distillation Column with Induction Heated Packing.

Ichikawa, Shinya. The Effect of Capillary Tube Dimensions on the Viscosity of Liquid-Liquid Dispersions in Laminar Flow.

Simpson, Kenneth Owen. Determination of Barriers to Internal Rotation from Low Temperature Heat Capacity Data.

Sisson, Richard Mark. A New Method for the Calculation of Momentum, Heat and Mass Transfer in Laminar Boundary Layer Flow.

Unzicker, William Frank. Turbulent Heat Transfer in Annuli at Large Diameter Ratios.

## 1968—Masters

Kaakinen, John William. A Mathematical Model for Differential Thermal Analysis.

## 1969—Masters

Godfrey, James Hendricks. Diffusion Coefficients of Binary Gas Systems: Carbon Tetrachloride-Air, Carbon Tetrachloride-Nitrogen, Methyl Sulfide-Nitrogen, Methyl Disulfide-Nitrogen.

Gojgini, Manouchehr. Vapor Pressure Determination of Propylene Carbonate and Isopropyl Benzoate.

Scott, Bruce Douglas. Motion Picture Study of a Vertical Climbing Film in an Annular Duct.

## 1970—Masters

Yung, Shui-Chow. Electrolyte Penetration of Battery Separators Using a Mercury Porosimeter.

## 1966—Doctors

Knapp, Samuel Boyd. Kinetics of the Thermal Decomposition of Tungsten Hexacarbonyl.

## 1967—Doctors

Collins, Stanley Browning. Drop Size Distributions Produced by Turbulent Pipe Flow of Immiscible Liquids.

Elzy, Eugene. Transpiration Cooling of a Cylinder in Crossflow.

Olsen, Richard Standal. Design of a Continuous Countercurrent Ion Exchange Unit and Operating Characteristics for the Aqueous Cupric Sulfate-Sodium Sulfate-Dowex 50W-X8 System.

Sutey, Anthony Michael. Mass Transfer at the Solid-Liquid Interface for Climbing Film Flow in an Annular Duct.

## 1968—Doctors

Genetti, William Ernest. Heat Transfer in a Fluidized Bed Tubular Heat Exchanger.

## 1969—Doctors

Brady, Michael Donavon. A Study of Thermal Effects Involved in the Performance of a Wetted-Wall Column.

Swiggett, Gerald Eugene. Gas Absorption by Entrainment from a Plunging, Liquid Jet.

## 1970—Doctors

Kwon, Young Jin. Asymptotic Convergence Technique and Executive Concept for Steady State Process Systems Analysis.

Myers, Gary Allen. Estimation of Momentum, Heat and Mass Transfer in Laminar Boundary Layers.

Postma, Arlin Keith. Absorption of Methyl Iodide by Aqueous Hydrazine Solutions within Spray Chambers.

## CHEMISTRY

See also Analytical Chemistry, Biochemistry and Biophysics,  
Forest Products Chemistry, Inorganic Chemistry,  
Organic Chemistry, Physical Chemistry

## 1967—Masters

- Schwiebert, Mary Carol. Hydroperoxide Formation in the Radiolysis of Aqueous DNA and the Pyrimidine Bases.  
Smith, Faith Irene. The Effect of Azetidine-2-Carboxylic Acid on Proline Biosynthesis in *Escherichia Coli*.

## 1968—Masters

- Aida, Kiyoshi. Ethanolysis Products from Bark Flavonoids and Polymeric Phenolics.  
Goodell, Lane Joseph. Reactions of Tertiary Phosphites with Alkyl Iodides in Acetonitrile.  
Heusser, Roger Karvel. Preparation and Characterization of N-Octadecylcycloazadiboron.  
McCulloch, John Cameron. The Electrical Properties of Vanadium Pentoxide.  
St. Clair, Akos Dominic. Heats of Immersion and Swelling of Quaternary Ammonium Complexes of Montmorillonites.  
Tong, Homer Hin-Chau. The Preparation of 2-Methoxy-4,5-Dimethylstilbene and Its Photochemistry.

## 1969—Masters

- Harvey, Robert Louis. Hydrogen Abstraction from Substituted *T*-Butylbenzenes.  
Held, Andrew Mackie. The Infrared and Far-Infrared Spectra of Sublimed Films of Formaldehyde.  
Kemp, Paul James. Simultaneous Spectrophotometric Determination of Barium and Strontium Using Sulfonazo III.  
Moguin, Alan Lathrop. Intramolecular Bifunctional Catalysis of the Racemization of Phenyl Benzenethiosulfinate.  
Osborn, Thomas Ward III. Sodium and Manganese Homogeneity in Chondritic Meteorites.  
Rhodes, Roxie Roberta. Evaluation of a Photon-Counting Technique for the Reaction Rate Determination of Glucose.  
Taylor, Frank Farnham. Some Aspects of an Oxidative Tryptophan Decarboxylating Enzyme in *Pisum sativum*.

- Wong, Dennis Tung. Copper Homogeneity Studies in Meteorites.

## 1970—Masters

- Konopka, Ronald Francis. Symmetry Allowed Charge-Transfer Transitions Between Spin-Orbit States in the Gaseous Dihalides of Mn, Co, Ni, and Cu.  
Springer, John Scott. An Analysis System for the Remote Determination of Oxygen with Data Transmission Via Pulse Duration Telemetry.  
Totherow, William Dietz. Steric Effects in Free-Radical Hydrogen Atom Abstraction Reactions.

## 1966—Doctors

- Tanaka, Fred Shigeru. Radiolysis of Succinic Acid in Water.

## 1967—Doctors

- Anderson, James Morley. Mechanisms of Reactions of Punte Salts and Related Compounds. I. The Acid Hydrolysis of Sodium Aryl Sulfates. II. The Acid Hydrolysis of Bunte Salts (S-Alkyl and S-Aryl Thio-sulfates).  
Hiller, Frederick Wayne. A Study of the Iodine-Formate Reaction in Dimethylsulfoxide-Water Mixtures.  
Olson, Gary Gilman. Automation of the *Pearl-Benson* Method for Spent Sulfite Liquor.  
Papaioannou, Stamatis Evangelos. Studies of the Functional Tyrosyl Residues of Insulin.  
Sun, Albert Yung-Kwang. Evidence for a Soluble High Energy Intermediate of Oxidative Phosphorylation in Mitochondria from Blowflies.  
Sun, Grace Yan-Chi. Neutral Lipid Metabolism in the Fat Body of the Larva of the Fleshfly, *Sarcophaga bullata*.  
Vachananda, Sookapracha. A Study of the Limitations of Ultraviolet Spectral Data for the Determination of Dissociation Constants of Organic Nitrogenous Bases.

**1968—Doctors**

- Cornelia, Richard Hartman. Dihalocarbene Reactions with Steroid Olefins.
- Dixon, Dale David. Steroid Dialkylcarbene Reactions.
- Harris, Ward Edwin. An Investigation of the Thermal Stability of Polyglycyl Bovine Serum Albumin.
- Johnson, William Allen. A Kinetic Investigation of the Hydrolysis of Trimethylamine-Sulfur Trioxide in Dimethyl Sulfoxide-Water Solvents.
- Large, George Blackmore. Mechanistic Studies of the Racemization of Optically Active Phenyl Benzenethiolsulfinate and Related Reactions.
- Lewis, Leroy Crawford. An Investigation of the Crystal Growth of the Heavy Metal Sulfides in Supercritical Hydrogen Sulfide.
- SeEVERS, Robert Edward. Electrical Conductivity of Additively Colored Potassium Chloride Crystals.
- Walsh, Ronald Edward, Jr. Analytical Utilization of Hafnium and Zirconium Borohydrides.

**1969—Doctors**

- Allen, Charles Anthony. Diffusion, Conductivity and Spectral Properties of Mercury II Ion in Potassium Chloride Crystals.
- Blaine, Roger Lee. Optimization of the Continuous Analysis Pearl-Benson Method for Lignosulfonates.
- Favstritsky, Nicolai Alexander. The Kinetics and Mechanisms of the Cleavage of Some Sulfur-Sulfur Bonds.
- Gabrielsen, Rolf Steven. The Decomposition of Alkyl Benzenediazo Sulfones.
- Hamby, Drannan Carson. The Thermodynamic Properties of Molten Mixtures of Some Transition Metal Halides with Some Alkali Halides.

- Hinks, David George. The Effect of Impurities on the Gamma-Ray Coloration of Potassium Chloride Crystals.
- Mannion, William Alphonsus. A Study of the  $Mn^{+2}$  and  $Pb^{+2}$ - $Mn^{+2}$  Impurity Systems in Alkali Chlorides.
- Newby, Kenneth Russ. Some Electrochemical Properties of the Vanadium Pentoxide Electrode.
- Stahl, Quade Russell. The Study of the Influence of the Nitro Substituent on the Hydrazinolysis of Certain Substituted 5-Nitropyrimidines.

**1970—Doctors**

- Dalton, Samuel Clemmer. Equilibrium and Exchange Rate Studies in Sulfur Monochloride, Thionyl Chloride and Related Systems.
- DeGroot, Peter Bernard. Radiosulfur Exchange Studies in the Liquid Sulfur Dioxide—Thionyl Fluoride System.
- Hancock, James Kent. Ultrasonic Dispersion in Gaseous Allene, Ammonia and Carbon Suboxide Observed by Optical Diffraction.
- Kasperek, George James. The Mechanism of Some Reactions of Aryl  $\gamma$ -Disulfones.
- Kendall, Donald Ray. The Theory and Application of Galvanovoltammetry. Design, Construction and Evaluation of a Continuous Liquid Stream Analyzer Employing a Galvanovoltammetric Detector and Low Cost Automatic Digital Concentration Readout.
- Krause, Jerry Lee. An Investigation of the Simultaneous Diffusion of  $Pb^{++}$  and  $Cd^{++}$  in NaCl Crystals and KCl Crystals.
- Scriven, Roger Louis. Ion Pair Return Phenomena in the Thermal Decomposition of Aralkyl Thiocarbonates.
- Shahidi, Iraj Khatib. Studies on the Mechanism of Formation of N-Phenyl-pyridinium Salts from 1,7-Diaza-1,3,5-Heptatrienes.

**CHILD STUDY**

See Education, Family Life



## CIVIL ENGINEERING

## 1966—Masters

- Albertson, Oran Lester. Stability of Elastically Restrained Framed Structures by Matrix Analysis.
- Blazier, James Lewis. Foam Separation of Organic and Toxic Materials in Kraft Mill Effluents.
- Coleman, Michael Dale. The Effect of the Diameter and Spacing of Manifold Outlets on Manifold Flow.
- Cox, Lloyd Owen. Joint Treatment of Domestic Sewage and Ammonium Perchlorate Waste.
- Hansen, Sigurd Paul. The Application of Granular Activated Carbon to the Treatment of Kraft Evaporator Condensate Wastes.
- Hardman, Michael Harvey. Removal of Dieldrin from Water by Granular-Activated Carbon.
- Kirkpatrick, Kenton. An Evaluation of Planning for Water Quality Control in the Willamette River Basin.
- Russell, William Clyde. Experimental Studies of Vierendeel Beam Analysis.
- Winchester, Jack LeRoy. Pile Group Analysis Considering Rigid and Semirigid Foundation Conditions.

## 1967—Masters

- Capell, Harry Thomas. Time-Dependent Deflection of Douglas Fir Beams in Bending and Shear Modes.
- Chapman, Robert Lyle. An Evaluation of Variables Affecting the Virus Removal Capabilities of the Coagulation-Filtration Process.
- De Jong, Tim. Design Data for Field Engineers.
- Jensen, Harold Leroy III. Alum Coagulation in Conjunction with the Activated Sludge Treatment of Corn Processing Waste Water.
- Lam, Kwok To. A Method of Seismic Design for Prestressed Concrete Highway Bridge Girders.
- Norris, Francis Warren, Jr. The Effect of Selected Insecticides Upon Biochemical Oxidation.

## 1968—Masters

- Andrews, Ben Neal. A Study of the Coagulation of Kraft Effluent by Sea Water.
- Chang, Ching-Lin. Effect of Carbon Adsorption on Chlorine Requirement of Treated Effluent.
- Clarke, James Dennis. The Evaluation of the Field Vane Shear Strength Analysis of the Glen Aiken Creek Embankment Failure.
- Cunningham, Gerald Robert. The Computer, the Computer User Group, and the Civil Engineer.
- Ergun, Tefvik. Economic Comparisons of Different Highway Networks in a Given Region.
- Mittelstadt, Richard Lee. Consumptive Use of Surface Water by Willamette Basin Municipalities.
- Saguanwongse, Suvat. Sand Pumping Efficiency of a Water Ejector Apparatus.
- Spurkland, Torbjorn. The Effect of Boundary Geometry on Internal Density Currents in a Density Stratified Reservoir.
- Summersett, John Steve. The Present Status of Plastics as an Engineering Material.
- Taleb-Agha, Ghiath Abdul-Kareem. A Treatise on Structures without Bending.
- Terry, Michael Dennis. A Numerical Study of Viscous, Incompressible Fluid Flow Problems.
- Waki, Melvin Zane. Oxygen Transfer in Selected Waste Liquids.
- Yang, Jui-Tsung. A Review of Research on Shear and Diagonal Tension in Reinforced Concrete Beam.

## 1969—Masters

- Anderson, Donald Gordon. Consolidation Characteristics of Sand-Clay Mixtures.
- Davis, Stewart Lee. Treatment of Activated Sludge Process Effluent by Carbon Adsorption.
- Dito, Edward Leonard. The Effect of Pulverization on a Lime Stabilized Clay Soil.
- Dotson, George Franklin. Critical Buckling Load for Round Tapered Columns with Variable End Fixity.
- Elwin, Elmer Harvey. Entering Streamflow Effects on Currents of a Density Stratified Model Reservoir.

Kelly, Patrick Bryan. Design and Evaluation of a Foundation Model Testing Device.

Martin, Duane Collins. The Effect of Mixing on the Oxygen Uptake Rate of Estuarine Bottom Deposits.

Martin, Roy Charles. A Torsional Investigation of a Concrete I Girder.

Monroe, Darrell Wayne. Disinfection of Settled and Unsettled Trickling Filter Effluent by Chlorination.

Polensek, Anton. Frequency Analysis of Timber-Joist Floors.

Steinkamp, Henry Vincent. Vibration Induced Pore Pressure Development in Graded Sands.

### 1970—Masters

Blanton, Guy Ivan, Jr. The Characterization and Physical-Chemical Treatability of Log Pond Waters.

Boyles, Thomas Victor. Effect of Variable Roof Thickness on Fallout Protection and Seismic Forces in Multistory Structures.

Coghlan, Gerald Thomas. Statistical Quality Control Applied to Asphalt Concrete.

Crook, Gene Ray. *In situ* Measurement of the Benthic Oxygen Requirements of Tidal Flat Deposits.

Graham, John LeRoy. Pollutants Leached from Selected Species of Wood in Log Storage Waters.

Hoffbuhr, Jack Wayne. The Character and Biological Treatability of Log Pond Waters.

Houck, George Campbell. The Use of Polymers for Better Setting in Domestic Waste Treatment.

Hsieh, Frederic Shu-Kong. Storm Runoff Response from Roadbuilding and Logging on Small Watersheds in the Oregon Coast Range.

Koh, Kwang Sun. Economic Analysis for a Toll Facility.

Rasmussen, William Kent. Economic Comparison of Structural Design with Reference to Radiation Shielding.

Thompson, Duane Melvin. A Determination of Ultimate Pile Capacity in Clayey Silt.

Williamson, Kenneth Jay. A Study of the Quantity and Distribution of Bark Debris Resulting from Log Rafting.

Wong, Yee-Chit. Horizontally Curved Beam Analysis and Design.

### 1966—Doctors

Berg, Richard Harold. Some Aspects of the Biological Metabolism of a Partially Colloidal Substrate.

Kerri, Kenneth Donald. An Investigation of Means of Achieving Water Quality Objectives.

O'Neal, Gary Lewis. The Degradation of Kraft Pulp Wastes in Estuarine Waters.

Tichenor, Bruce Alan. The Effect of Surface Configuration on Evaporation from a Porous Stream Model.

### 1967—Doctors

Baumgartner, Donald John. Vertical Jet Diffusion in Non Linear Density Stratified Fluid.

### 1968—Doctors

Grant, Joseph Edward. Dynamic Response of Steel Structures with Semirigid Connections.

Mandery, William Lee. Effect of Vertical Compressive Stress on Shear Strength of Wood Beams.

Streebin, Leale E. Comparison Between Thermophilic and Mesophilic Aerobic Biological Treatment of a Synthetic Organic Waste.

### 1969—Doctors

Scholl, Roger Edwin. Dynamic Analysis of Three-Dimensional Frames.

### 1970—Doctors

James, Wesley Pierce. Air Photo Analysis of Waste Dispersion from Ocean Outfalls.

## CLOTHING, TEXTILES AND RELATED ARTS

### 1966—Masters

Griesman, Kay Stephenson. Clothing Behavior Related to Attitudes Toward Certain

Clothing Standards, Clothing Interest, Orthodoxy, and Conformity.

Osborn, Evelyn Loretta (Howard). A Study of Concepts Gained from a Clothing Selection Course at Oregon State University.

Sampson, Sandra Smith. Satisfaction and Dissatisfactions of College Home Economics Majors in Retail Careers.

Waldemar, Martha Goetz. The Relationship of Clothing Attitudes of Three Groups of Women to Age and Level of Husband's Position.

#### 1967—Masters

Farnes, Carol Ann. Grooming and Clothing Capabilities of Twenty Institutionalized Mentally Retarded Teen-Age Girls.

Reeves, Marilyn Laree. Woven Stretch and Nonstretch Fabrics in Clothing Designed for Boys with Specified Physical Handicaps.

#### 1968—Masters

Thiel, Linda Courtney. A Guide for an Adequate Wardrobe for Specific Occasions Encountered by Women Students Attending Oregon State University.

Wegner, Stephanie Ann. The Relationship of Current Textiles to the Cultural Heritage of India.

#### 1969—Masters

Borchardt, Marilyn Ruth. Laundering Performance of Wurlan Finished Wool Fabrics Including Soil Detection by X-Ray Fluorescent Spectroscopy.

Porter, Madeline Eleanor. Analysis of the Fit of Women's Custom-Made Pants.

#### 1970—Masters

Jeffers, Joyce Colleen. An Evaluation of Serviceability and Consumer Acceptance of Pre-School Boy's Knit Shirts Made of Blended Polypropylene Fabrics.

Kwallek, Nancy Panak. Adaptations of Traditional Furniture in the Contemporary Home: 1959-1969.

Stender, Veneita Augusta. Clothing Selection Practices and Related Clothing Problems of a Selected Group of Low-Income Women.

## COMPUTER SCIENCE

See Electrical and Electronics Engineering, Mathematics

## EDUCATION

See also Agricultural Education, Guidance, Health Education, Home Economics Education, Science Education

#### 1966—Masters

Parrish, Mary Hilda. Beliefs and Practices of Secondary Supervising Teachers Concerning Oregon State University Student Teacher Conferences.

#### 1969—Masters

Birch, Anthony Durnford deGray. Determination of Indicators for Predicting Budget Balances in Accounting Units as an Administrative Tool for Higher Education.

#### 1966—Doctors

Myers, Kenneth Holly. Factors Related to the Choice of Secondary Teaching as a Career.

Storm, George. The Successful Teacher in Technical Education: the Preparation of the Successful Teacher.

Vedanayagam, Edith Gnanam. An Analysis of the In-Service Teacher Education Program for Secondary Schools in India.

#### 1967—Doctors

Baird, Stanley Jack. The Effectiveness of Introducing Regular Dictation of Unpracticed Material Before the Completion of Gregg Shorthand Theory.

Haun, James Franz. The Problems of the Married College Student and Possible Approaches to Their Solution.

- Patty, Austin Horace. A Comparison of the Relative Effectiveness of Teaching Composition by Closed-Circuit Television and by Conventional Classroom Procedures.
- Schlaadt, Richard Grover. An Analysis of the Effectiveness of Team Teaching Compared to Traditional Teaching of Health to High School Sophomore Students.

#### 1968—Doctors

- Boss, Richard Dale. A Study of Current Practices in Technical Vocational Curriculum Development in Community Colleges of the Western States.
- Grant, Ardyce Mary. Student Academic Performance as Influenced by On-Campus and Off-Campus Residence.
- Griffin, Kenneth Neil. The Effect of a Summer Program of Orientation, Effective Study, and Reading on Persistence and Grade Point Average of First Year Junior College Students.
- Jensen, Norman Richard. The Role of the Audiovisual Building Coordinator: Opinion vs Practice.
- Kenneke, Larry Jon. Major Factors and Specific Aspects Affecting the Job Satisfaction and Dissatisfactions of Oregon Industrial Education Teachers.
- Kremer, Robert Joseph. Objectives, Course Content, and Preparation of Teachers for Psychology Classes in Oregon High Schools.
- Melendy, Ward Tinker. Cognitive Meaning of Teacher-Child Verbal Interaction in a Fourth Grade Classroom.
- Moon, Donald Elwin. A Study of the Industrial Process Operations of Selected Manufacturing Industries with Implications for the Planning of Industrial Arts Laboratories in Oregon.
- Taschow, Horst Gerard. A Comparative Study of a Corrective Reading Program and Its Effects on Two Freshmen Reading Groups at Central Oregon Community College.
- Werth, Trostel Gifford. An Assessment of the Reciprocal Effect of High School Senior Low Achievers Tutoring Freshman Low Achievers in English Classes.

#### 1969—Doctors

- Britton, Gwyneth Elaine. A Comparison of the

- Inductive and Deductive Group Approaches in Teaching Selected Phonic Generalizations to Second Grade Children.
- Harris, Marleau Smith. The Effects of Work Experience Programs on Disadvantaged Ninth Grade Students in Corvallis, Oregon.
- Lenmark, Bruce Carl. A Comparison of the Academic Achievement of Oregon Community College Transfer Students with that of Native Students at Oregon State University.
- Mitchell, James Gerald. An Appraisal of Evening Community College Student Personnel Services in Western United States.
- Rochon, Louis Francis. The Emerging Role of the Teacher Aide in Oregon Public Schools.
- Smith, Charles Edward, Jr. Survey of Cooperative Education Programs in Selected High Schools in Oregon.
- Wiper, Robert Ells. The Effectiveness of Audio-Monaural Equipment in Skill-Building in Typewriting.

#### 1970—Doctors

- Adams, Warren Samuel. A Comparative Analysis of Three Approaches to In-Service Education Designed to Change the Behavior of Classroom Teachers in the Social Studies (K-12).
- Bigsby, Robert Alexander. Analysis of Selected Factors Relating to the Neighborhood Youth Corps Program in Rural Counties of Oregon.
- Brown, Tyrus Stearns. Two Case Studies of Community Educational Programs: Planning, Organization, and Implementation.
- Fross, Horton Lawrence. An Experiment to Ascertain the Effect of Maturation and Educational Experience on Air Force Officer Qualifying Test Scores.
- Hammack, Mary Lorraine. A Comparison of Three Approaches to Vocabulary Improvement in Ninth Grade Language Arts: an Experimental Study.
- Heilman, Casmer Franklin. A Task Analysis of Selected Leaders in Vocational Education.
- House, Reese Milton. The Effects of Non-directive Group Play Therapy Upon the Sociometric Status and Self-Concept of Selected Second Grade Children.

- Kuder, James Michael. A Comparative Study of Selected Characteristics of Junior and Senior Male University Students Residing in Fraternities and Residence Halls at Oregon State University.
- Lamb, Ronald Deane. An Evaluation of a Differential Education Program for Able and Gifted High School Students in Southwestern Oregon.
- Miller, Melvin Dee. The Role of Internship and Field Experience Programs in Developing Selected Competencies in Adult Educators.

- Morris, William Robert. Identification and Development of Procedures and Criteria for Self-Analysis by Community Colleges.
- Petrie, Ronald Gene. A Comparison of Verbal Responses of Anglo-Migrant and Anglo-Resident Children.
- Roberts, Arthur James. The Relationship Between Kindergarten Experience and Fine-Muscle Eye-Hand Coordination Abilities of First Grade Children.
- Williams, Elvin Thomas. Faculty Involvement in Policy Formation in Three Selected Public Community Colleges of Oregon.

## ELECTRICAL AND ELECTRONICS ENGINEERING

### 1966—Masters

- Adrian, Robert Foisy. Spherical Mirror Resonators and Optical Mode Selection.
- Anand, Satish Kumar. Majority Logic Circuits.
- Beutler, Robert Russel. An Impulse-Response Measurement Apparatus for Linear Systems Using a Rectangular Input with a Poisson Distribution of Zero Crossings.
- Davis, Thomas James. The Design of Ultrasonic Waveguide System for Time Delay Applications.
- Husband, James Harris. Digital Simulation of a Load-Peaking Generation Station Located in a Tidal Estuary.
- Johnson, Ronald Lee. Analysis of a Tunnel-Diode Delay-Line Reflex Memory Cell.
- Lo, Joseph Ping Kwan. Vacuum Deposition of Silicon Monoxide for Capacitors.
- Matsuo, Samuel Seiji. Deterioration of Gallium Arsenide Diodes.
- Nagaki, Junior Akio. Synthesis of Networks with Complex Terminations.
- Ordeedolchest, Manoo. SIDAC-I a Simulated Digital-Analog Computer.
- Quinn, Alexander Campbell. Microwave Methods of Measuring Resistivity of Gallium Arsenide.
- Routhieaux, Thomas Robert. Logic Circuit Design of a 41-Bit Residue Arithmetic Unit.
- Shrader, William Richard. A Linear Model of an Electrohydraulic Valve and Its Integration into System Analysis and Design.

- Starnes, Charles Frederick. A Dynamic, Stereoscopic Display of Phase-Space Trajectories by Parallax Simulation.

### 1967—Masters

- Delzer, Dennis Richard. Reactively Sputtered Films of Silicon Nitride for Diffusion Masking.
- Freytag, Edwin Karl. Gas Ratio and Pressure Effects on the 6328 Å Transition of the Helium-Neon Gas Laser.
- Hirakami, Michael. Alternating Current and Voltage Profiles on Compensated High-Voltage Underground Power Cables.
- Hu, Sung Chiao. Ternary Digital Systems.
- Kawabata, Kenneth Kazuo. Design and Analysis of a Nanosecond Pulse Generator with Repeatable Pulse Width.
- Lee, Pedro. Investigation of Special Magnetic Memory Devices.
- Murtagh, Richard James. X-Ray Triggering by Automatic Sensing.
- Newbern, David Wendel. Communication Systems for Water-Quality Data Acquisition (sic).
- Peng, Te-Fu. Minimizing Input Logic for a Sequential Network.
- Schiele, Roy Louis. Computer-Aided Majority Logic Design.
- Shelley, Robert Eugene. Vibration and Propagation Characteristics of Wood Poles Subjected to Sonic Excitation.
- Siemens, Phillip Dennis. Optimum Logic Design for a Fast Parallel Multiplier.

- Skaar, Donald Laverne. A Voltage-Regulated SCR Inverter Utilizing Conduction-Angle Control.
- Smathers, Douglas Charles. Digital Filtering with an IBM 1620 Computer.
- Sternes, Kenneth James. Impedance Bridge Balancing Using Perturbation Theory.
- Swenson, Edward James. High Resolution Root Locus Plots.
- Wang, Cheng-Chi. An Approximate Matched Filter Design for Detecting a Pulsed Carrier in Noise.
- Williamson, James Allen. Short-Pulsed Operation of the Balanced Detector.

#### 1968—Masters

- Aibara, Tsunehiro. A New Method for the Synthesis of Networks by Using Cut-Set Matrices.
- Bae, Yoon Goon. Limit Cycle Detection of the Van der Pol Equation.
- Bertorello, Robert James. A Zero-Crossing Analyzer for Distribution-Free Detection of a Signal in Noise.
- Bradley, Richard William. Real-Time Bandwidth Compression Using Hilbert Transforms.
- Cheung, David Kin-Poon. Compatible Field-Effect and Bipolar Transistors.
- Chiang, Ching Hwa. Active Network Synthesis Using Operational Amplifiers.
- Cowgill, Paul Nelson. Design-Approach Evaluation of Multiple-Input, Model-Reference, Adaptive Control Systems.
- Johnson, Robert Michael. The Three-Pole, Two-Zero Approximation of a Maximally Flat Time-Delay Network with Constant Input Resistance.
- Jomeswarng, Paichitr. Characteristics of Analog Switches Using Junction Field-Effect Transistors.
- Kaufman, Murlan Ralph. A Circuit That Responds to a Wide Range of Input Signals to Provide Reliable Automatic Triggering.
- Mittelstadt, William Andrew. A Method of Improving Power System Transient Stability Using Controllable Parameters.
- Peek, William Henderson. A Flux-Coupled Current Measuring System with a Bandwidth from D.C. to Fifty Megahertz.
- Perkins, Peter Eugene. The Design and Development of a Noncompressing Post-Deflection Acceleration Method for Cathode-Ray Tubes.
- Rover, Jack Terry. Digital Simulation of a Vertical Reference System Incorporating Random Error Sources.
- Stubkjaer, William Lloyd. A Linear Circuit Analysis Program for a Small Computer with No Auxiliary Memory.
- Tao, David Ming-Shih. Percussive-Welded P-N Junctions in Silicon.
- Thongurai, Kamthorn. A Digital Network Simulator Using FORTRAN.
- Traa, Einar. An Integrated Analog Multiplier Circuit.

#### 1969—Masters

- Chalfan, John Lawrence. Linear Metal-Oxide-Semiconductor Integrated Circuits.
- Chen, David Wei. A MOSFET Integrated Circuit Shift Register.
- Collett, Gordon Carter. Learning Processes in Computing Machinery.
- Cross, Carlton Edward. A Simulation Study of Dynamic Postural Stability in the Dog.
- Curran, Emmett Eugene, II. Approaches to Linear, Time-Varying Systems Analysis.
- Edgar, Charles Clifton. A Logarithmic Sweep for Sampling Oscilloscopes.
- Gallaher, Dale Marion. An Acceleration-Oriented Learning Controller for Second-Order Systems.
- Hancock, Robert James. Characteristics of RC Digital Filters as Bandpass Circuits.
- Leffler, Fred Ross. Digital Simulation of Non-Linear Voltage Regulation Systems.
- Mooney, Edward Robert Jr. A Static Frequency Converter Speed Control System for the Three-Phase Squirrel-Cage Induction Motor.
- Moriyasu, Hiro. High Speed Adaptive Logic Circuit for Adaptive Signal Processing.
- Poonpol, Chirasakdi. Characteristics of Coupled Transmission Lines with Various Terminations.
- Simasathien, Phojana. Recognition of Selected Spoken Digits.
- Spaulding, Richard Alan. Field-Effect Transistor Noise at Low Temperatures.
- Wilkins, Dennis James. A Sampling Criterion Enabling Signal Reconstruction with Specified Limit Error.

#### 1970—Masters

- Bolden, Barrington Oliver. Hybrid Computer Simulation of the Dynamic Performance of a Rotary Solenoid.

- Chang, Ki Suk. An Integrated MOS Addressing Circuit.
- Chiu, Chung-Pang. Active Network Synthesis Using Gyration.
- Chuanakrerkkul, Namkiat. The Application of the Variable-Gradient Method for Generating a Liapunov Function for the Van der Pol Equation.
- Chung, Ki Hwan. Synthesis of Networks with Complex Terminations Using Active Networks.
- Clinton, Ted Warner. A Lock-in Amplifier for Detecting Weak Signals Buried in Noise.
- Cooley, Donald Homer. A Multiple Format Telemetry Generator Using Binary Counters or Binary Shift Registers.
- Frank, Rudolph Joseph. The Effect of Both Hardware and Software Parameters on the Efficiency of a Paging System.
- Manorot, Pongpun. A Study on Coupled Trigonometric Transmission Lines.
- Shim, Wook Rang. A Study of the Stability of a Third-Order System with Saturation.
- Smith, Milton Ray. Products Liability in the Electronics Industry.
- Sohrab, Soheil. A Method of Controlling the Left Ventricular Wall Stress of the Human Heart.
- Spencer, Gary Edward. The Design and Performance of a Wideband Electronic Correlator.
- Tuntawiroon, Chalermchai. A Circuit Design to Generate and Maintain a Constant Magnetic Flux.
- Walker, James William. A Programmed Introduction to Modulation Techniques.

#### 1966—Doctors

- Khanna, Satya Pal. Determination of Sub-Nanogram Quantities of Boron by Diffusion in Silicon.
- Hsieh, Edmund Jui-Ching. Thin Film Wideband Tunnel-Diode Amplifier.
- Magnuson, Waldo George Jr. Circuit Characterization for Efficient Computer Analysis.

#### 1967—Doctors

- Papageorge, George Elefterios. Reduction of the Number of Elements in the Synthesis of RC and RC-NIC Networks.

#### 1968—Doctors

- Kosorok, John Roger. A Computer Control Algorithm for a Nuclear Reactor Support System.
- Matsuo, Samuel Seiji. Properties of Flash-Evaporated Gallium Arsenide and Gallium Phosphide Epitaxial Films.
- Rux, Peter Turner. Design and Evaluation of a Glass Delay Line Content-Addressable Memory System.
- Seamans, David Alvin. Ternary Arithmetic in Direct Digital Control Systems.
- Spencer, Kenneth Edward. A Signal-Processed Antenna System and the Simulation of the Effects of Balanced-Mixer Frequency Conversion.

#### 1969—Doctors

- Brandenstein, Albert Edward. Analysis of the D.C. Electric Field for a Pipeline in a Three Layered Earth.
- Cheng, Sih Yao. Learning Control of Linear Systems with Periodic Inputs Using a Method of Harmonic Analysis.
- Delzer, Dennis Richard. Vacuum Evaporated Dielectrics in MOS Structures.
- Ede, Alan Winthrop. Space-Charge-Limited Currents in Silicon Using Gold Contacts.
- Lindquist, Claude Steward. Analysis and Synthesis of Active Transmission Lines.
- Morgan, Max Joseph. An Interactive Man-Hybrid Computer Parameter Search Algorithm.
- Sherman, Richard Joseph. On Output Statistics of Nonlinear Devices: 1) Third and Higher Order Information, 2) Quadrature Carrier Reconstruction, 3) Analysis of Point Processes.
- Smathers, John Edward. Distributed Logic Memory Computer for Process Control.
- Yousif, Salah Mohammad. Optimal Governor and Excitation Control of Power Systems with Damping.

#### 1970—Doctors

- Collins, Heber Dale. Error Analysis in Scanned Holography.
- Hill, James Carver. Priority Structures for Multiaccess Memory Systems.
- Hu, Sung Chiao. Cellular Synthesis of Synchronous Sequential Machines.
- Wagner, John Arthur. Parameter Estimation in System Modeling Using Man-Machine Interaction and Computer Learning.

## ENTOMOLOGY

## 1966—Masters

- Harwood, Willard Garland, Jr. The Flight and Olfactory Behavior of Checkered Beetles. (Coleoptera: Cleridae) Predatory on the Douglas-Fir Beetle.
- Torchio, Philip Frank. A Survey of Alfalfa Pollinators and Pollination in the San Joaquin Valley of California with Emphasis on Establishment of the Alkali Bee.

## 1967—Masters

- Beckendorf, Gerald Walter. A Comparative Study of the Isozymic Proteins and the Effect of Metachemogenesis in the Tissues of *Periplaneta americana* (L.)
- Dejmal, Roger Kent. Solubility and Electrophoretic Studies of the Protein Deposited During Oocyte Development in *Leucophaea maderae* (Fab.)
- Mays, David Lee. Biology and Adult Variability in an Oregon Population of *Lepidopteria californiae* (Walker) (Lepidoptera: Arctiidae)
- Tweedy, David Graham. Circadian Rhythms in *Megachile rotundata* (Fabricius) and *Nomia melanderi* Cockerell.
- Young, Conny Lee. The Effect of Sublethal Doses of Dieldrin, Parathion, and Sevin on the Calling Song of *Acheta domesticus* L. (Orthoptera: Gryllidae)

## 1968—Masters

- Hartman, Margaret Jane. Comparative Embryology of *Nomia melanderi*, *Megachile rotundata*, and *Bombus griseocollis* (Hymenoptera: Apoidea)
- Smith, Harry Glen, Jr. Some Toxicological Aspects of Ruelene, an Organo-phosphate, Used Systematically to Control Ectoparasites.
- Mayberry, Terrel Wilson. Varietal Resistance of Hops, *Humulus lupulus* (Linn.), to the Two-Spotted Spider Mite, *Tetranychus urticae* (Koch)

## 1969—Masters

- Ascerno, Mark Edward, Jr. Use of Petroleum

Oils to Prevent Spread of Stylet-Borne Viruses by Aphids.

- Au, Eunice Chizuru. The Taxonomic Value of the Metathoracic Wing in the Scutelleridae (Hemiptera: Heteroptera).

Meister, Herman Skinner. The Bionomics of the Cabbage Flea Beetle, *Phyllotreta cruciferae* (Goeze), in Western Oregon.

Poonyathawon, Panya. Insect Parasites of the Omnivorous Leaf Tier, *Cnephasia langana* (Haworth) in Oregon.

Ramsey, Henry Lee. Population Development of *Scutigerella immaculata* (Newport), in Laboratory and Greenhouse Cultures.

Schafer, James Arnold. Naphthalene Resistance in a House Fly Strain: Its Inheritance and Characteristics.

Speir, Jon Allen. Biological and Ecological Aspects of the Black Flies of the Marys River Drainage System (Diptera: Simuliidae).

## 1970—Masters

Billings, Ronald Forrest. Parasites and Predators of *Dendroctonus ponderosae* Hopkins (Coleoptera: Scolytidae) in Ponderosa Pine.

Davidson, Jean Hoyt Puckle. The Morphology and Taxonomic Significance of the Male Genitalia of *Coenonycha* (Coleoptera, Scarabaeidae).

Davidson, Jerry Mitchell. The Taxonomic Significance of the Male Genitalia and Associated Structures in the Genus *Eucerceris* Cresson (Hymenoptera: Sphecidae)

Dickie, Alfred Gordon. The Parasite Complex of the Pea Aphid, *Acyrthosiphon pisum* (Harris) on Alfalfa in Western Oregon.

Dupnik, Theodore David. Culture and Nutritional Requirements of Sod Webworms on a Meridic Diet (Lepidoptera: Pyralidae: Crambinae)

Kerst, Cary Dean. The Seasonal Occurrence and Distribution of Stoneflies (Plecoptera) of a Western Oregon Stream.

Walker, Charles Robert. Induction of Microsomal Oxidases by Dieldrin in House Flies.



### 1966—Doctors

- Eighme, Lloyd, Elwyn. A Study of Relationships of Four Insects to Heating in Stored Grain.
- Fellin, David Gene. Biology and Feeding Habits of *Pleocoma* Larvae (Coleoptera: Scarabaeidae) in Western Oregon Coniferous Forests.
- Greene, Gerald L. Biology Studies of *Macrosiphum avenae* (Fabr.), *Acyrtosiphon dirhodum* (Walker), and *Rhopalosiphum padi* (L.) on Gramineae in Western Oregon.
- Singer, George. A Review of the Genus *Neotrombidium leonardi*, 1902, with a Description of Two New Species, and a Critical Re-Evaluation of the Family Concepts within the Trombidioidea (Acarina)
- Wattanapongsiri, Anuwat. A Revision of the Genera *Rhynchophorus* and *Dynamis* (Coleoptera: Curculionidae)

### 1967—Doctors

- Baker, Charles William. Larval Systematics of the Troginae in North America, with Notes on Biologies and Life Histories (Coleoptera: Scarabaeidae).
- Kamm, James Albert. Transmission Variation and Loss of Aphid Transmissibility of Bean Yellow Mosaic Virus.
- Stimman, Michael William. Some Factors Affecting Aphid Transmission of Cucumber Mosaic Virus.

### 1968—Doctors

- Hackwell, Glenn Alfred. The Biology and Behavior of the Alkali Bee *Nomia melanoderi* Cockerell (Hymenoptera: Apoidea)
- Koontz, Robert Frank. Biological and Ecological Relationships of the Fungus, *Entomophthora coronata* (Costantin) Kevorkian, and the Garden Symphylan, *Scutigera immaculata* (Newport)
- Osgood, Charles Edgar. Mechanisms of Orientation in the Leaf-Cutter Bee *Megachile rotundata* (Fabricius)
- Sethi, Satnam Lal. Environmental Biology of *Eriosoma pyricola* Baker and Davidson.
- Smith, David Rollins. Nearctic Sawflies I: the Adults and Larvae of the Subfamily

- Blennocampinae (Hymenoptera: Tenthredinidae)
- Sturgess, Brian Thomas. The Ecology of Chironomidae Associated with Stabilization Lagoons.

### 1969—Doctors

- Azam, Khaja Mohammed. Life History and Production Studies of *Sialis californica* Banks and *Sialis rotunda* Banks (Megalopectera: Sialidae)
- Daterman, Gary Edward. Reproductive Biology of the European Pine Shoot Moth *Rhyacionia buoliana* (Schifferrmüller) (Lepidoptera: Olethreutidae), with Special Reference to Mating Behavior, Sex Attraction, and Fecundity.
- Dejmal, Roger Kent. Partial Characterization of the Yolk Protein of *Leucophaea maderae* (Fab.) with Emphasis on Changes During Oocyte Development.
- Fitzgerald, Terrence Dennis. The Bionomics of *Medetera aldrichi* Wheeler (Diptera: Dolichopodidae) in Western Oregon.
- Harper, James Douglas. Effects of Single and Simultaneous Challenges Using DDT and a Nuclear Polyhedrosis Virus Against the Variegated Cutworm, *Peridroma saucia* (Hubner)
- Kimerle, Richard Albert. Production Biology of *Glyptotendipes barbipes* (Staeger) (Diptera: Chironomidae) in a Waste Stabilization Lagoon.
- Lehmkuhl, Dennis Merle. Biology and Downstream Drift of Some Oregon Ephemeroptera.
- Smith, Harry Glen, Jr. The Comparative Pharmacodynamics of Three Organophosphate Pesticides on Host Rabbits and Two Ectoparasites.
- Tweedy, David Graham. Circadian Rhythms in *Megachile rotundata* (Fabricius)

### 1970—Doctors

- Grau, Philip Alvin. Essential Fatty Acids in Noctuid Moths: Their Nutrition and Metabolism.
- Shoemaker, Rodger Russell. A Review of the Family Eviphididae (Acarina: Mesostigmata).

## FAMILY LIFE

### 1966—Masters

Goldman, Allene Townsend. The Effect of Nursery School Observation on Mothers' Understanding of Behavior in Preschool Children.

Hofstetter, Merlin Ivan. Three Measures of Similarity in Values.

### 1968—Masters

Cooper, Beverly McKnight. Traits Relevant to Creativity Present in Four Year Old Nursery School Children.

Glim, Margaret Ellen. Choice Behavior as a Function of Memory in Preschool Children.

Kelley, Roselene Jensen. Some Factors Associated with Reconciliation Decisions Among Couples with Marital Problems.

Lai, Shirley Tak Yan. Fantasy in Stories Spontaneously Told by Two Relatively Privileged Groups of Preschoolers.

Nayak, Sheela Ramesh. The Utility of a Correct Choice Under Conditions of Verbal Reinforcement.

Owen, Lois Darling. Content Analysis of Fiction as a Technique for Studying Attitudes in Social Relationships.

Reckendorf, Elisabeth Steidel. Assigned Variables Associated with University Sophomore Housing Choices.

Takitani, Joan Ai. Self Concept and Peer Acceptance in Nursery School Children.

Thom, Nancy Caldwell. Factors in Childhood Experience Associated with Adult Church Attendance Practices.

### 1969—Masters

Larsen, George Robert. A Comparison of Social Class Differences in Adolescents' Self-Disclosure, Parent-Cathexis and Self-Cathexis.

Mack, Marilyn Winnifred. Problems of Families with a Diet-Treated Phenylketonuric Child.

Mackie, Emma Jeanne. Physiological Maturation as a Factor Related to Intrapersonal Relations of Adolescent Girls.

Morris, Lesley Frances Moore. The Emergence of Racial and Sexual Preference in the Choice of Playmates by Preschool Children as Related to Sex, Socioeconomic Status and Race.

Toliver, Rena Faye. The Relationship of a High School Family Life Course to Post High School Problems and Marriage Role Expectations.

### 1970—Masters

Harrison, Roberta Lee. Assessment of a Selected Group of High School Girls' Experience in a Child Observation Center.

Hutchins, Nancy Gigoux. Assessment of Changes in Self Concept, Marital Role Expectation, and Behavioral Understanding in High School Family Life Students.

Moon, LouAnne Waln. A Comparison of Peer Acceptance of First-Born and Last-Born Children.

Owen, Martha-Ann. The Relationship Between Specific Mother-Child Interactions and Selected Aspects of Language Development in Head Start Children.

### 1966—Doctors

Draper, Henry Edward, Jr. Conscience Orientation in Children and Parental Attitudes Toward Independence Granting and Achievement Inducement.

### 1967—Doctors

Baker, Luther Galloway, Jr. A Comparison of the Personal and Social Adjustment of 38 Never-Married Women and 38 Married Women.

### 1968—Doctors

Breslin, Hazel Brown. The Relationship Between the Physically Handicapped Child's Self-Concept and His Peer Reputation.

### 1969—Doctors

Adams, Wesley James. Sex Composition in Group Discussion as Related to Acquisition of Knowledge and Attitudinal Change Among Women in a Family Life Course.

Sethi, Renuka Raghavan. The Relation Between Parental Consistency in Response to Frustration and Children's Imitation of Parental Responses.

### 1970—Doctors

Calderwood, Deryck. Adolescent Appraisals and Opinions Concerning Their Sex Education in Selected Institutions.

## FARM CROPS

## 1966—Masters

Brown, Dean Allen. Relationship of Nitrogen Level to Medusahead, *Taeniatherum asperum* (Sim.), Competition with Wheatgrass and Silica Content.

Copeland, Lawrence Odell. Confidence Limits for Fluorescence Tests of Ryegrass (*Lolium* sp.)

Ogg, Alex Grant, Jr. The Reproduction and Mode of Spread of Sago Pondweed (*Potamogeton pectinatus* L.) in Irrigation Systems.

Skipper, Horace Dean. Microbial Degradation of Atrazine in Soils.

Youngberg, Harold Wayne. The Effect of Source and Size of Parent Tuber on Yield of the Russet Burbank and Kennebec Potato.

## 1967—Masters

Brenchley, Ronald Glenn. The Influence of Magnesium on the Toxicity of Atrazine.

Grandal, Osvaldo Trivelli. Some Herbicidal Properties of 2-Chloro 2', 6' -Diethyl - N - (Methoxymethyl) Acetanilide.

Grisez, John Patrick. A Comparison of Four Methods of Sampling Small Seeds.

Knudson, Larry Andrew. Automatic Sampling for Seed Analysis.

Rana, Prakriti S. J. B. The Effect of Seeding Rate on Yield and Yield Components of Two Winter Wheat Varieties.

Rosell, Cadmo. A Comparison of Plant Characteristics of Annual Ryegrass (Oregon), *Lolium multiflorum* Lam., and Linn Perennial Ryegrass, *Lolium perenne* L.

Ross, Claude Gary. Influence of Soil Moisture on the Movement of Bromacil in Soil.

Slater, Clarence Harold. The Effects of CIPC Vapors on Dodder (*Cuscuta* spp.) Seedlings.

TeKrony, Dennis Merlin. Germination Potential in Monogerm Seed of *Beta vulgaris* L.

Valdes Lamar, Ramon. The Influence of Herbicides, Phosphorus Fertilization, and Mechanical and Chemical Seedbed Preparation on the Establishment of Alfalfa (*Medicago sativa* L.) and Birdsfoot Trefoil (*Lotus corniculatus* L.)

Zapata, Fabio Augusto. Administrative Principles and Procedures of the Agricultural Experiment Stations.

## 1968—Masters

Azocar C., Patricio. Management Factors Affecting Establishment of Birdsfoot Trefoil (*Lotus corniculatus* L.)

Bergman, Jerald Wilmer. Studies on the Methodology of Crossing and Selfing in *Lolium multiflorum*.

Donaldson, Dean Robert. Factors influencing the Herbicidal Activity and Persistence of Isomers of 1,1-Dimethyl-Diisopropyl-Indanyl Ethyl Ketone in Soil.

Ekins, Walter Leo. Influence of Norbak, Dacagin, and Vistik on Spray Drift, Volatility, Adherence, and Efficacy of Several Herbicides.

Hsu, Katy Yong-Yong. Ultrastructural Study of the Embryo During Germination Involving Douglas Fir (*Pseudotsuga menziesii* [sic] Franco) Seeds.

Nishimoto, Ray Katsuto. The Influence of Herbicide Placement in Soil on Toxicity to Emerging Seedlings.

Rosner, John Theodore. The Response of Winter Wheat to Irrigation in the Willamette Valley.

Schafer, David Eugene. Factors Influencing Dormancy and Persistence in Buried Seed of Five Grass Species.

Shenk, Myron Daniel. Some Components of Test Weight of Soft White Wheat.

## 1969—Masters

Gargano, Don Richard. Herbicidal Effectiveness of Trifluralin as Influenced by Methods of Incorporation Into the Soil and Depth of Weed Seed Germination.

Kitagawa, Yukio. The Persistence of Five Herbicides in Hawaiian Soil.

McLoughlin, John Walter. The Control of Colonial Bentgrass in Kentucky Bluegrass Turf.

Schweitzer, Leland Ray. Seed Development in Monogerm Sugar Beets (*Beta vulgaris* L.) as Influenced by Certain Nutrients.

Vesecky, John Francis. Influence of Soil Moisture on Movement of Terbacil in Soil.

Vigil, Frederick Rudolph. Establishment of Subterranean Clover (*Trifolium subterraneum* L.) on Medusahead, (*Taeniatherum asperum* (sim.) Nevski), Infested Ranges in Western Oregon.

Zimmerman, Martin Joseph. The Influence of Light, Temperature and Humidity on the Herbicidal Activity of Bromoxynil (3,5-Dibromo-4-Hydroxybenzonitrile) on *Amsinckia intermedia*.

#### 1970—Masters

Burr, Ronald James. Factors Influencing the Effectiveness of Activated Carbon Used to Protect Newly-Seeded Grasses from Herbicides.

Kim, Syng Chul. Exogenous and Endogenous Factors Related to Seed Germination and Vigor in Certain Varieties of Sugarbeet *Beta vulgaris* L.

Migchelbrink, Kenneth John. The Influence of Various Surfactant-Herbicide Ratios in Three Volumes of Water on the Toxicity of Dalapon, Paraquat, and Terbacil to Winter Oats (*Avena sativa* L.)

Oupadissakoon, Surapon. High Population Planting-Patterns for Maximum Yield in Field Corn.

Stanger, Charles Earl, Jr. The Lateral Movement of Cycloate as Affected by Three Soil Types and Four Methods of Irrigation When Applied to the Soil by Injection Incorporation.

#### 1966—Doctors

Carleton, Albert Eugene. The Evaluation of Heterosis for Grain Yield, Total Leaf Area and Malting Quality in 21 Spring Barley Crosses.

#### 1967—Doctors

Thomas, Johnny Ray. Heritabilities and Associations of Seed Yield Components and Seed Yield in Tall Fescue (*Festuca arundinacea*, Schreb.)

Vaartnou, Herman. Responses of Five Genotypes of *Agrostis* L. to Variations in Environment.

#### 1968—Doctors

Copeland, Lawrence Odell. Measurement of Outcrossing in *Lolium* Spp. as Determined by Fluorescence Tests.

Ganapathy, Mapangada Chengappa. Influence

of Population Density on Light Interception and Grain Yield Involving Wheat Hybrids. Smith, Garry Austin. The Effect of Heterozygosity on Phenotypic Stability in Spring Barley.

Zimdahl, Robert Lawrence. A Kinetic Analysis of Herbicide Degradation in Soil.

#### 1969—Doctors

Blacklow, Warren Marcus. The Physiology of Seasonal Growth in Tall Fescue Varieties (*Festuca arundinacea* Schreb.)

Brenchley, Ronald Glenn. The Response of Tomatoes to Atrazine as Affected by Magnesium and Photoperiod.

Figuerola, Luis Fernan. The Influence of Various Climatic and Edaphic Factors on the Toxicity of 2-Tert. Butylamino-4-Ethylamino-6-Methylthio-s-Triazine (Ingran) to Winter Wheat (*Triticum aestivum* Vill., Host)

Homesley, Wylie Buress. The Influence of Selected Environmental Factors on Diuron Toxicity to Winter Wheat.

Maguire, James Dale. Seed Dormancy, Germination and Seedling Vigor of Some Kentucky Bluegrass (*Poa pratensis* L.) Varieties as Affected by Environmental and Endogenous Factors.

Sievekking, William Earl. Inheritance of Resistance to Barley Yellow Dwarf Virus Disease in Barley.

Stobbe, Elmer Henry. Tiller Development in *Dactylis glomerata* L. as Influenced by Nutrient Supply and Panicle Removal.

TeKrony, Dennis Merlin. Seed Development and Germination of Monogerm Sugar Beets (*Beta vulgaris* L.) as Affected by Maturity.

#### 1970—Doctors

Peterson, Clarence James, Jr. Genotype-Environment Interaction in Winter Wheat  $F_1$  Progeny.

Schafer, David Eugene. Selectivity and Chemodynamics of 3,5-Dibromo-4-Hydroxybenzonitrile in Winter Wheat (*Triticum aestivum* L.) and Coast Fiddleneck (*Amsinckia intermedia* Fisch. & Mey)

West, David Lee. Environmental and Genetic Factors Affecting Seed Set in *Dactylis glomerata* L.

Wiedman, Steven John. Simulation of Plant Growth by Sub-Lethal Concentrations of Herbicides.

## FISH AND GAME MANAGEMENT

See Fisheries, Wildlife Management

## FISHERIES

## 1966—Masters

Binns, Niles Allen. Effects of Rotenone Treatment on the Fauna of the Green River, Wyoming.

Brocksen, Robert Wilbur. Influence of Competition on the Food Consumption and Production of Animals in Laboratory Stream Communities.

Gebhardt, Gary Alan. Studies on the Molluscan and Fish Hosts of the "Salmon Poisoning" Fluke, *Nanophyetus salmincola* (Chapin)

Iverson, Ronald Albert. Biology of Juvenile Sockeye Salmon Resident in Chignik River, Alaska.

Kibby, Harold VanHorn, II. Toxicity of Selected Herbicides to Four Species of Freshwater Fish.

Koski, K. Victor. The Survival of Coho Salmon (*Oncorhynchus kisutch*) from Egg Deposition to Emergence in Three Oregon Coastal Streams.

Parrish, Loys Phillip. The Predicted Influence of Kraft Mill Effluent on the Distribution of Some Sport Fishes in Yaquina Bay, Oregon.

Parrish, Richard Henry. A Review of the Gadopsidae, with a Description of a New Species from Tasmania.

Swedberg, Stephen Ernferd. Age-Fecundity Relationships in the Striped Seaperch *Embiotoca lateralis* from Yaquina Bay, Oregon.

## 1967—Masters

Baldwin, Norman Lewis. Studies on the Host-Parasite Relationships of the "Salmon Poisoning" Trematode—*Nanophyetus salmincola* (Chapin).

Brown, Randall Lee. The Use of the Embryonic Stages of the Bay Mussel, *Mytilus edulis* Linnaeus, as a Bioassay Tool with Special Reference to Sodium Pentachlorophenate.

Courtright, Robert Carl. Formulation of a Synthetic Seawater for Bioassays with *Mytilus edulis* Embryos.

Earnest, Russell David. Production of the Snail *Oxytremia silicula* (Gould) in an Experimental Stream.

Goodwin, Chester Lynn. Fish Production and Related Limnology in Two Experimental Ponds as Influenced by Fertilization.

Johnson, Allyn Gregory. Biology of the Ratfish, *Hydrolagus coliei* (Lay and Bennett)

McIntyre, John Demaris. Food Relations and Production of Cutthroat Trout, *Salmo clarki clarki* Richardson, in an Experimental Stream.

Putnam, George Biersdorf. The Influence of Metabolites on the Growth and Development of Salmonid Embryos and Sac Fry.

Tsunoda, Setsuwo. Movements of Spawning Sockeye Salmon in Hidden Creek, Brooks Lake, Alaska.

## 1968—Masters

Bucaria, Garvan Pat. Growth of Juvenile Sockeye Salmon, *Oncorhynchus nerka* (Walbaum), in Auke Lake, Alaska.

Butler, Jerry Allan. Effects of the Insecticide Sevin on the Cockle Clam *Clinocardium nuttalli* (Conrad)

Carline, Robert Frank. Laboratory Studies on the Food Consumption, Growth, and Activity of Juvenile Coho Salmon.

Crone, Richard Allan. Behavior and Survival of Coho Salmon, *Oncorhynchus kisutch* (Walbaum), in Sashin Creek, Southeastern Alaska.

Ellis, Robert Hewitt. Effects of Kraft Pulp Mill Effluent on the Production and Food Relations of Juvenile Chinook Salmon in Laboratory Streams.

Gnose, Charles Einar. Ecology of the Striped Seaperch, *Embiotoca lateralis*, in Yaquina Bay, Oregon.

Graybill, James Roger. Cyro-Preservation of Viable Fish Sperm.

Holubetz, Terry Bruce. Evaluation of a Louver Guidance Facility Used to Sample Salmon and Trout Emigrants.

Krohn, David Clark. Production of the Reticulate Sculpin (*Cottus preplexus*) and Its Predation on Salmon Fry in Three Oregon Streams.

Osborn, Charles Edwin. A Population Study of the Rainbow Trout (*Salmo gairdneri*) in a Central Oregon Stream.

Tokar, Erick Michael. Some Chronic Effects of Exposure to Kraft Mill Effluent on Juvenile Chinook Salmon.

Vincent, David Thomas. The Influence of Some Environmental Factors on the Distribution of Fishes in Upper Klamath Lake.

Wares, Paul Gordon. Biology of the Pile Perch (*Rhacochilus vacca*)

Wilson, Dennis Carl. The Effects of the Herbicides Diquat and Dichlobenil on Pond Invertebrates.

#### 1969—Masters

Bisson, Peter Andre. Origin and Distribution of the Fish Fauna of the Harney Basin, Oregon.

Fessler, James Lawrence. Some Morphological and Biochemical Changes in Steelhead Trout During the Parr-Smolt Transformation.

Hoffman, F. Owen. The Horizontal Distribution and Vertical Migrations of the Limnetic Zooplankton in Crater Lake, Oregon.

Lee, Ronald Arthur. Bioenergetics of Feeding and Growth of Largemouth Bass in Aquaria and Ponds.

Pearson, John Philip. The Abundance and Distribution of Harbor Seals and Stellar Sea Lions in Oregon.

Pelouquin, Edgar Paul. Growth and Reproduction of the Feral Nutria *Myocastor coypus* (Molina) Near Corvallis, Oregon.

Primbs, Edward Rudolph Joseph. Evidence for the Nonessentiality of Ascorbic Acid in the Diet of the Rainbow Trout, *Salmo gairdneri*.

Stolte, Lawrence William. The Black Crappie, *Pomoxis nigromaculatus*, as a Farm Pond Fish in Oregon.

#### 1970—Masters

Alevras, Ronald Allen. A Comparison of the Reproductive Rates of Zooplankton in East and Paulina Lakes.

Borton, Dennis Leland. Effects of Biologically Stabilized Kraft Mill Effluents on Juvenile Salmonid Growth.

Broderius, Steven James. Determination of Molecular Hydrocyanic Acid in Water and Studies of the Chemistry and Toxicity to Fish of the Nickelocyanide Complex.

Buchanan, David Vardyn. Effects of the Insecticide Sevin on the Dungeness Crab, *Cancer magister* Dana.

Gill, John Albert. Tolerance of Two Populations of Ring-Necked Pheasants to DDT.

Goode, Wesley Lyle. An Investigation of the Acoustic Signature of the Dungeness Crab (*Cancer magister*).

Kepshire, Bernard Michael, Jr. Growth and Stamina of Sea-Water Acclimated Juvenile Fall Chinook Salmon.

Lichatowich, James August. Influences of Kraft Mill Effluents on the Production of Chinook Salmon in Laboratory Stream Communities.

Lindland, Ronald Lee. Reproductive Rates of Copepods in Experimental Ponds in Oregon.

Ott, Alvin George. Fertilization of Salmonid Eggs with Cryo-Preserved Sperm.

Poon, Derek Clinton. Development of a Streamside Incubator for Culture of Pacific Salmon.

Ringler, Neil Harrison. Effects of Logging on the Spawning Bed Environment in Two Oregon Coastal Streams.

Seim, Wayne Kenneth. The Influence of Biologically Stabilized Kraft Mill Effluent on the Food Relations and Production of Juvenile Chinook Salmon in Laboratory Streams.

Suraswadi, Plodprasop. Growth of Channel Catfish, *Ictalurus punctatus* (Rafinesque), Fed Artificial Diets in Ponds Near Corvallis, Oregon.

#### 1966—Doctors

Leduc, Gerard. Some Physiological and Biochemical Responses of Fish to Chronic Poisoning by Cyanide.

Mason, John Christopher. Behavioral Ecology of Juvenile Coho Salmon (*O. kisutch*) in Stream Aquaria with Particular Reference to Competition and Aggressive Behavior.

#### 1967—Doctors

Saddler, James Bryan. Fatty Acids of Exercised and Non-Exercised Salmon.

#### 1968—Doctors

Van Hyning, Jack Mattson. Factors Affecting the Abundance of Fall Chinook Salmon in the Columbia River.

#### 1969—Doctors

Averett, Robert Craig. Influence of Temperature on Energy and Material Utilization by Juvenile Coho Salmon.

Beardsley, Alan Jackson. Movement and Angler Use of Four Foodfishes in Yaquina Bay, Oregon.

Brocksen, Robert Wilbur. Density Dependent Relationships in Trophic Processes of Simplified Stream Communities.

Chapman, Gary Adair. Toxicity of Pentachlorophenol to Trout Alevins.

Hazel, Charles Richard. Limnology of Upper Klamath Lake, Oregon, with Emphasis on Benthos.

Liu, David Hyuk Wui. Alterations of Carbohydrate Metabolism by Pentachlorophenol in Cichlid Fish.

Pasley, James Neville. Some Effects of Thyroxine and Pentachlorophenol on the Bioenergetics of Cichlid Fish.

Straty, Richard Robert. The Migratory Pattern of Adult Sockeye Salmon (*Oncorhynchus nerka*) in Bristol Bay as Related to the Distribution of Their Home-River Waters.

Wallace, Richard Lee. Some Aspects of the Comparative Ecology of Fishes Associated with Juvenile Sockeye Salmon, *Oncorhynchus nerka* (Walbaum), in the Lakes of the Naknek River System, Alaska.

#### 1970—Doctors

Larson, Douglas William. On Reconciling Lake Classification with the Evolution of Four Oligotrophic Lakes in Oregon.

McIntyre, John Demaris. Production and Behavioral Interactions of Salmonids in an Experimental Stream.

Sethi, Hari Singh. Temperature and the Bioenergetics of *Cichlasoma bimaculatum*.

## FOOD SCIENCE AND TECHNOLOGY

See also Foods and Nutrition

#### 1966—Masters

Arnold, Roy Gary. Identification of Some Compounds Contributing to the Stale Flavor Defect of Sterilized Concentrated Milk.

Ayres, James Lee. Isolation and Determination of Aflatoxin in Cottonseed Meal and Other Feedstuffs.

El-Miladi, Samir Salem. Dealcoholization and Concentration of Fermented Fruit Juices.

Keenan, Thomas William. Acetaldehyde Production and Utilization by Lactic Cultures.

Kray, William David. Synthesis of the Naturally Occurring Cyclopropenoids Malvalic and Sterculic Acids.

Roehm, Jeffrey Noyes. Total Fatty Acid

Composition of Autoxidized Anchovy Meal and Studies of Related Model Systems.

#### 1967—Masters

Bodyfelt, Floyd Walter. Lactic Streptococci and the Fruity Flavor Defect of Cheddar Cheese.

Chen, Tsun-Chieh. Use of Alkali in the Isolation and Preparation of Aflatoxins.

Chiba, Naoki. Oxidative Degradation of *Beta*-Carotene.

Combs, Carol Marie. Some Effects of Cyclopropenoid Fatty Acids on Lipid Metabolism in Rainbow Trout (*Salmo gairdnerii*).

Thompson, Garet Barton. Influence of Aging Temperature on Bovine Sarcoplasmic Proteins.

Walradt, John Pierce. Quantitative Gas Chromatographic Analysis of Synthetic Dairy Culture Flavors.

#### 1968—Masters

Cariño, Lourminia Almeda. Identification of Some Soluble Esterases of the Carrot (*Daucus carota* L.)

Follett, Mark Samuel. The Quantification of Malonaldehyde in Marine Lipids with Para-Aminobenzoic Acid.

Lee, David Bing-En. An Evaluation of Composition and Quality of Ground Beef Sold in Retail Stores.

Norgaard, Marida Jane. Some Carboxylic Esterases of the Pea (*Pisum sativum* L.)

Petropakis, Heraclis John. Gel Electrophoretic Analysis of Bovine Sarcoplasmic Proteins.

Putnam, Teryl Beebe. Identification of Some Esterases of the Green Bean (*Phaseolus vulgaris* L.)

Ross, Nicholas Dutton. Relationships of Cellulose and Pectic Substances to the Texture of Secondarily Bleached Cherries.

Sheldon, Ross Mark. Malty Flavor Components of *Streptococcus lactis* var. *multi-genes*.

#### 1969—Masters

Hirway, Sumesh Chandra. Recovery of *Escherichia coli* from Freeze Dried Model Systems.

#### 1970—Masters

Taylor, Stephen Lloyd. Some Enzyme Changes in Livers of Rainbow Trout (*Salmo gairdnerii*) Fed Aflatoxin B<sub>1</sub> and Sterculic Acid.

#### 1966—Doctors

Anderson, Dale Fredrick. Flavor Chemistry of Blue Cheese.

Bills, Donald Duane. The Role of Ethanol and Certain Ethyl Esters in the Fruity Flavor Defect of Cheddar Cheese.

Corlett, Donald Alexander, Jr. Replica-Plat-

ing and Computer Analysis for Rapid Identification of Microorganisms in Seafoods.

Crawford, David Lee. Malonaldehyde: Certain Chemical and Biological Properties.

Daravingas, George Vasilios. Thermal and Enzymatic Degradation of Raspberry Anthocyanins.

Khatri, Lakho Lilaram. Flavor Chemistry of Irradiated Milk Fat.

Langler, James Edward. Flavor Chemistry of Swiss Cheese.

Wyatt, Carolyn Jane. Lactone Precursor in Milk Fat.

#### 1967—Doctors

Rao, Akkinapally Venketeshwer. The Effect of Freezing and Freeze-Drying on the Physico-Chemical Changes in Northwest Strawberries.

#### 1968—Doctors

Arakji, Omar Ahmed. The Isolation and Characterization of the Pectic Enzymes of the McFarlin Cranberry.

Arnold, Roy Gary. Chemistry of the Flavor Deterioration of Sterilized Concentrated Milk.

Keenan, Thomas William. Metabolism of Volatile Compounds by Microorganisms.

Roehm, Jeffrey Noyes. Changes in the Lipid Composition of Rainbow Trout (*Salmo gairdnerii*) Fed Cyclopropenoid Fatty Acids.

Scanlan, Richard Anthony. Heat Induced Compounds in Milk.

#### 1969—Doctors

Ayres, James Lee. Studies of Aflatoxin B<sub>1</sub> in Rainbow Trout (*Salmo gairdnerii*) 1. Carcinogenicity and Chemical Structure. 2. Tissues and Subcellular Distribution of <sup>14</sup>C from Aflatoxin B<sub>1</sub>-<sup>14</sup>C.

Chan, Harvey Thomas, Jr. Isolation and Characterization of Some Oxidizing Enzymes of the McFarlin Cranberry.

Veerabhadrapa, Patnagere Siddeveera Shetty. Multiple Forms of Carboxylesterases in the Green Bean (*Phaseolus vulgaris* L.) and Pea (*Pisum sativum* L.)

Walradt, John Pierce. Flavor Chemistry of Popcorn.



**1970—Doctors**

- Castell, John Daniel. The Essential Fatty Acid Requirements of Rainbow Trout (*Salmo gairdneri*)
- Dewey, James Edward. Influence of Post-Mortem Aging Upon Some Chemical Characteristics of Tropomyosin Preparations from Bovine Skeletal Muscle.
- Heatherbell, David Alan. Enzymatic Formation and Influence of Variety, Maturity and

- Processing on Volatiles of the Carrot, *Daucus carota* L.
- Mendenhall, Von Thatcher. The Isolation and Identification of a Microbial Inhibitor from Pacific Hake (*Merluccius productus*)
- Reddy, Mallangi Chandra Sekhara. Chemistry of Fruity Flavors Produced by *Pseudomonas fragi*.
- Sheldon, Ross Mark. Flavor Chemistry of Roasted Filberts (*Corylus avellana*)

## FOODS AND NUTRITION

See also Food Science and Technology

**1966—Masters**

- Betschart, Antoinette Alice. The Phospholipids in Human Blood Fractions.

**1967—Masters**

- Rohrer, Martha Jane. The Determination of 4-Pyridoxic Acid in Urine; an Investigation into the Recovery of 4-Pyridoxic Acid and the Lactone of 4-Pyridoxic Acid from Two Dowex Ion Exchange Resins.

**1968—Masters**

- Chang, Susan Shao-Shu King. Determination of Pyridoxal Phosphate and Pyridoxal by the Cyanohydrin Method.
- Dinus, Linda Ann. Chemical Attributes of Muskmelon Related to Texture.
- McCague, Kay Elinor. Excretion of Taurine by Normal Women.

**1969—Masters**

- Chiu, Jessie Tsui. Effect of Source of Dietary Carbohydrate on Plasma Lipids of Women.

- McCune, Harriet Kling. The Determination of Taurine in Human Blood.
- Vesecy, Sharon Ann. The Influence of Dietary Carbohydrate on Blood Phospholipids.
- White, Edna. Proanthocyanidin Content of Bananas at Three Stages of Ripeness.

**1970—Masters**

- Calkins, Jeanene Marie. Some Properties of an Enzyme Hydrolyzed Soybean Protein.
- Hammond, Martha Ann. Determination of Vitamin B<sub>6</sub> Compounds in Human Blood by the Cyanide Method.
- Marumoto, Seiko. The Effects of a Physical Fitness Program on the Plasma Lipids of Late Adolescent Males.
- Prince, Marion. Some Components of the Volatiles from Rye Flour (*Secale cereale*).

**1968—Doctors**

- McWilliams, Margaret Ann. Some Flavor Components of Wheat.

## FOREST MANAGEMENT

See also Forest Products, Forest Products Chemistry

**1966—Masters**

- Cleary, Brian Dennis. Seasonal and Diurnal Variation in Internal Moisture Stress of Mature Douglas-Fir.
- Khan, Faquir Mohammad. Developing an Equation for Making Estimates of Diameter

- Inside Bark at Various Heights Up the Stem in Douglas-Fir.
- Riech, Fredric Paul. Influences of Static Bending Stress on Growth and Wood Characteristics of Nine-Year-Old Douglas-Fir from Two Geographic Sources.

Tucker, Richard Edward. An Anatomical Study of the Needles and Hypocotyls of Douglas-Fir Seedlings Grown Under Various Environments.

Woodard, Ernest Steve. Effects of Some Transpiration Retardants and Shade on Survival of Douglas-Fir Seedlings Under Drought Conditions in the Field.

#### 1967—Masters

El-Hassan, Babiker Ahmed. Juvenile Development of Douglas-Fir, Red Alder and Snowbrush Associations in Western Oregon.

Holt, Harvey Allen. Pre-Harvest Measures to Reduce the Weight of Second-Growth Douglas Fir.

LaBau, Vernon James. An Analysis of Design and Technique of Cluster Point Sampling in Coastal Alaska Old-Growth Forests.

McGhehey, John Howard. The Biologies of Two Hemlock Barkbeetles in Western Oregon.

Rietveld, Willis James. Effects of Three Plant Growth Regulators Upon Growth Patterns of Three Races of Douglas-Fir, *Pseudotsuga menziesii* (Mirb.) Franco.

Smith, Douglas Sterling. A Quantitative Analysis of Log Volume Concepts and Product Derivatives.

Strodtz, Gary Leonhard. Economic Analysis of the Public Forest Resources of Lane County, Oregon by Major Drainages.

Thomas, Gerald Evan. A Comparative Karyotype Analysis of *Pseudotsuga menziesii* (Mirb.) Franco and *Pseudotsuga wilsoniana* (Hayata).

Webb, Warren Lewis. The Differential Response of *Fraxinus pennsylvanica*, *Liquidambar styraciflua*, and *Acer saccharinum* to Picloram as Measured by CO<sub>2</sub> Absorption and Evolution.

#### 1968—Masters

Arney, James Douglas. Calculation of Tree Volume and Surface Area by the Height-Accumulation Method.

Geppert, Rollin Roger. The Effect of Age on Transpiration Rates of Douglas-Fir Seedlings (*Pseudotsuga menziesii* (Mirb.) Franco)

Gilleran, Dennis James. Rapid Calibration of Coastal Streams to Detect Effects of Road-building.

Heiner, Terry Charles. Physiological and Anatomical Studies of Several Groups of Douglas-Fir (*Pseudotsuga menziesii* (Mirb.) Franco) Seedlings Which Demonstrated Differential Survival Potential Under Drought Stress.

Kelly, Gerald Dennis. A Comparison of Several Methods for Erosion Measurement on Cut and Fill Slopes of a Logging Road in the Oregon Coast Range.

Miller, Charles Wilbur. A Method of Economic Analysis and Data Required to Determine Justifiable Expenditures for Protection of Tangible Forest Values from Fire.

Ruetz, Wolfhard Friedrich. The Effect of Seed Source on Transpiration Rates of Seedlings of Douglas-Fir (*Pseudotsuga menziesii* (Mirb.) Franco)

#### 1969—Masters

Alcock, Gerald William. Some Financial Aspects of the Level of Growing Stock Problem in Managed Douglas-Fir.

Allen, Hollis Howard. The Inter-Relationship of Salmonberry and Douglas-Fir in Cutover Areas.

Atzet, Thomas. Selective Filtering of Light by Coniferous Forests and Minimum Light Energy Requirements for Regeneration.

DeMars, Donald James. Polymorphic Site Index Curves for Noble Fir from Stem Analysis Data.

Harper, Warren Charles. Changes in Storm Hydrographs Due to Clearcut Logging of Coastal Watersheds.

O'Dell, Tharon Earl. The Influence of Dormant Brush Sprays on Forest Succession in Western Oregon.

Peterson, Charles Adrian. Some Physiological Effects of Atrazine on Douglas-Fir Seedlings.

Schutt, Walter W. A Proposed Sampling Technique and Electronic Data Processing Program for Reproduction Surveys in Forest Plantations.

Wessell, William James. Design of an Apparatus with Controlled Rates of Temperature Change for Use in Cold Tolerance Tests of Conifers.

**1970—Masters**

Hann, David William. Detection of Dwarf Mistletoe in Young-Growth Ponderosa Pine from Color Aerial Photography.

Henderson, Jan Alan. Biomass and Composition of the Understory Vegetation in Some *Alnus rubra* Stands in Western Oregon.

Sainio, Jorma Kalevi. Production of Information for Marketing Decisions in Forest Industry Firms.

Thevenon, Michel Jean. U.S.-E.E.C. Trade in Kraft Linerboard; a Study of Current and Future U.S. Exports and Marketing Practices.

Unterschuetz, Phillip. The Effect of Internal and External Moisture Stress on the Transpiration Rate of Douglas-Fir Seedlings (*Pseudotsuga menziesii* (Mirb.) Franco)

**1966—Doctors**

Thompson, Emmett Frank. Consideration of Uncertainty in Forest Management Decision-Making.

Zavitzkovski, Jaroslav. Snowbrush, *Ceanothus velutinus* Dougl., Its Ecology and Role in Forest Regeneration in the Oregon Cascades.

**1967—Doctors**

Berntsen, Carl Martin. Relative Low Temperature Tolerance of Lodgepole and Ponderosa Pine Seedlings.

Brown, George Wallace, III. Temperature Prediction Using Energy Budget Techniques on Small Mountain Streams.

**1968—Doctors**

Dinus, Ronald John. Effect of Red and Far-Red Light Upon Growth of Douglas-Fir (*Pseudotsuga menziesii* (Mirb.) Franco) Seedlings.

Payandeh, Bijan. A Computer Study of the Relative Efficiency of Several Forest Sampling Techniques as Influenced by the Spatial Distribution of Trees Found in Five Major Forest Types of the Pacific Northwest.

Ruth, Robert Harvey. Differential Effect of Solar Radiation on Seedling Establishment Under a Forest Stand.

**1969—Doctors**

Ek, Alan Ryan. A Comparison of Some Estimators in Forest Sampling.

Krammes, Jay Samuel. Hydrologic Significance of the Granitic Parent Material of the San Gabriel Mountains, California.

**1970—Doctors**

Stewart, Ronald Eugene. The Effect of Osmotic Moisture Stress During Germination on Douglas-Fir (*Pseudotsuga menziesii*)

**FOREST PRODUCTS**

See also Forest Management, Forest Products Chemistry

**1966—Masters**

Grant, Ronald Richmond, Jr. The Conversion of Quercetin to Cyanidin by Reductive Acetylation.

**1967—Masters**

Hansen, Edward Dee. Two-Stage High-Yield Sulfite Pulping of Red Alder (*Alnus rubra* Bong.)

**1970—Masters**

Blackman, Gary Lee. Pulping Qualities of Refractory vs. Permeable Douglas-Fir Heartwood.

Farr, Tommy Dale. The Pulping Characteristics of Bigleaf Maple (*Acer macrophyllum* Pursh)

**1970—Doctors**

Lo, Cheng-Fan. Low-Molecular Weight Lignosulfonates from Spent Sulfite Liquor; Isolation, Purification and Identification.

## FOREST PRODUCTS CHEMISTRY

See Also Chemistry

## 1966—Masters

- Carroll, Karen Esther. The Separation and Purification of the Fatty and Hydroxy Fatty Acids of White Fir Bark Wax.
- Fujii, Michihiro. Ethanolysis Products from Douglas Fir.

## GENERAL SCIENCE

## 1966—Masters

- Saxton, Robert Howard. The Frequency of Occurrence of Corticolous Lichens on *Quercus garryana* in the Willamette Valley.

## 1967—Masters

- McCarthy, Joseph Edward. Vascular and Extravascular Fluid Volumes in the Pacific Hagfish, *Eptatretus stoutii* (Lockington)
- Manes, Jasper Damon, Jr. The Site of Action of Radio-Lethal Compounds on *Micrococcus radiodurans*.
- Ryan, William Charles. A Cytological Study of a Spontaneous Reciprocal Translocation in the Domestic Fowl *Gallus domesticus*.
- Tripp, Martha June. Enzymatic Patterns of Ionocytes in *Oncorhynchus tshawytscha*.
- Woodring, Murial Josepha. The Determination of Pyridoxal Phosphate by the Measurement of  $^{14}\text{CO}_2$  Enzymatically Released from Tyrosine-1- $^{14}\text{C}$ .

## 1968—Masters

- Carnegie, John William. The Biological Significance of Low Molecular Weight RNA Associated with Tumor Virus.
- Denovan, James Thomas. Dosimetry Considerations in the Irradiation of Biological Populations.

## 1970—Masters

- Hess, David Owen. A Study of State and Federal Radioisotope Licensing Requirements.
- Ikkanda, John Martin. The Effect of Temperature and Salinity Acclimation on the Respiration Rate of a Marine Polychaete, *Serpula vermicularis* L.
- Wehr, Carol Meyer. Comparative Carbohydrate Catabolism in *Chromobacterium* Species.

## 1966—Doctors

- Clark, Lewis John. Development of a Metal-Ion Analysis Procedure by Radial Paper Chromatography Utilizing Complexing and Chelating Agents.

## 1969—Doctors

- Levant, Emory Marion. *In Vitro* Identification of *Clostridium botulinum* by Means of Extracellular Enzyme Tests.
- Young, Gerald Edward. Glucose Catabolism in Normal and Fluoride Injured Mung Bean (*Phaseolus aureus*) Seedlings.

## 1970—Doctors

- McKenzie, Donald Samuel. Aspects of the Autecology of the Plethodontid Salamander, *Aneides ferreus* (Cope)
- Miller, John David. Henry Augustus Rowland and His Electromagnetic Researches.

## GENERAL STUDIES

### 1966—Masters

Gilliland, Anne Huston. Economic, Political and Physical Problems Involved in Expanding the Cultivation of Swamp Rice in Sierra Leone.

### 1967—Masters

Weimer, Robert Edward, II. A Preliminary Study of Expressed Preferences and Task Efficiency in Differing Communication Networks.

### 1968—Masters

Ashwell, Sara Elizabeth. Twentieth Century Influences on Public Library Service to Certain Adult Groups.

### 1969—Masters

Carkner, Richard William. Efficiency of Social Capital Expenditures in Oregon Towns and Cities.

## GENETICS

### 1966—Masters

Srinives, Supote. The Comparison of Two Methods of Evaluating Inheritance of Milk Production of Dairy Sires.

Wong, Patrick Tin-Choi. Temperature-Effective Periods During Crossvein Development in Crossveinless-Like Strains of *Drosophila melanogaster*.

### 1967—Masters

Munji, Marcus Tebid. Performance of Three Inbred Lines of Hereford Cattle and Their Linecrosses.

### 1968—Masters

Hong, Lorraine Luo. Inheritance of Resistance to Halo Blight *Pseudomonas phaseolicola* (Burk) in *Phaseolus vulgaris* L.

Konanta, Sugsanguan. Genetic Parameters of the House Fly (*Musca domestica* Linn.)

### 1970—Masters

Trindade, Roger James. Reproductive Characteristics of Two Breeds of Swine Fed Dichlorvos.

### 1966—Doctors

Dahmen, Jerome John. Some Genetic and Environmental Factors Affecting Weaning Weights of Lambs.

North, Warren Arthur. Gonadotropins in Pituitaries of Inbred and Linecross Beef Bulls and Effects of Irradiation of Mammalian Pituitary Glands on Their Ability to Induce *In Vitro* Ovulation of Frog Ovaries.

### 1967—Doctors

Anwar-Afghan, Mohammad. Comparative Values of Liver Nicotinamide Nucleotide Coenzymes, Endocrine Glands, and Their Relationships with Production Traits of Diallel Crossed Beef Bulls.

Hutto, Daniel Carlisle. Effect of Certain Blood Enzymes and Cellular Constituents on Growth in Different Genetic Groups of Sheep.

Schilling, Prentiss Edwin. Estimation of General and Specific Combining Abilities from a Diallel Cross of Three Inbred Lines of Suffolk Sheep.

### 1968—Doctors

Caceres, Oscar. Accelerated Selection for Hen-Housed Egg Production and Correlated Responses in White Leghorns (*Gallus domesticus*)

Saini, Surinder Kumar. The Influence of Plant Densities on Gene Action Estimates and Associations in Seven Winter Wheat Parents and Their F<sub>2</sub> Progeny.

Womack, James Ernest. Effects of Radiation on Selection Progress in Mice.

### 1969—Doctors

Humes, Paul Edwin. Estimates of Combining Abilities, Heterotic Effects and Phenotypic Correlations Among Inbred Lines of Beef Cattle and Their Linecrosses.

Nix, Carroll Eugene. Genetics of Sheep Transferrins as Determined by Disc Electrophoresis.

- Spurr, David Tupper. Some Genetic and Environmental Factors Affecting Performance and Carcass Measurements in Swine.
- Templeton, Joe Wayne. Genetic Polymorphism of Sheep Hemoglobin.

#### 1970—Doctors

- Douglass, Larry Wayne. Effectiveness of Index and Elite Selection Methods.

Ihrke, Charles Albert. Influence of Chelating Agents on Genetic Recombination in *Zea mays* L.

Wang, Theodora. Correlations Between Horticultural Characteristics and *Fusarium* Root-Rot Resistance in *Phaseolus vulgaris* L.

Wong, Patrick Tin-Choi. Effects of X-Irradiation on DNA Synthesis in Salivary Gland Cells of *Drosophila hydei*.

## GEOGRAPHY

#### 1966—Masters

- Beckley, Charles Louis. An Analysis of Conservation Education in Secondary Schools.
- Davis, Roger Keith. The Lower Rogue River; Recreation Resources: Development and Potential.
- Finkl, Charles William, II. Sequent Occupance Study in Fauquier County, Virginia.
- Frederick, James Jess. Renewal and Development of Urban Riverfront Occupance: the Case of Albany, Oregon.

#### 1967—Masters

- Aldrich, Frank Thatcher. A Survey and Evaluation of Land Resource Classification Systems in the United States.
- Barney, Robert Adling. A Case in the Evaluation of Public Domain in a Bureau of Land Management Transfer Area.
- Craig, Kenneth MacKenzie. Conflicts in the Multiple Use of Wallowa Lake.

Heinsohn, Frank Peter. Cloudiness in the Willamette Valley of Oregon.

Heintzelman, Conrad Lee. The Spatial Linkages of Retirement Centers in Oregon.

Preston, John Phillip. The Impact of National Interstate Route 5 on Adjacent Non-Agricultural Land Uses in the Willamette Valley, from Salem to Portland, Oregon.

Stankey, George Henry. A Conceptual Paradigm for the Evaluation of Recreation Resources.

#### 1968—Masters

- Lewis, Anthony James. Highlights in the Changing Resource Perception and Land Use of the Willamette River Flood Plain, Albany-Corvallis Area.
- Meade, James Montgomery. Selected Variables Influencing Vacant Urban Land in Corvallis, Oregon.

## GEOLOGY

#### 1966—Masters

- Forth, Michael. Geology of the Southwest Quarter of the Dayville Quadrangle, Oregon.
- Patterson, Robert Lynn. Geology of Part of the Northeast Quarter of the Mitchell Quadrangle, Oregon.

#### 1967—Masters

- George, Gene Richard. Stratigraphy of Part

of the Crow Indian Reservation, Big Horn County, Montana.

Lauer, Timothy Campbell. Stratigraphy and Structure of the Snowflake Ridge Area, Gallatin County, Montana.

Ray, Jimmie Dell. Structure and Stratigraphy of the Cinnamon Mountain Area, Gallatin County, Montana.

Rose, Robert Rowland. Stratigraphy and Structure of Part of the Southern Madison

Range, Madison and Gallatin Counties, Montana.

#### 1968—Masters

- Ellison, Bruce Edward. Stratigraphy of the Burns Junction-Rome Area, Malheur County, Oregon.
- Hartman, Donald Albert. Stratigraphy and Structure of the Salt Wells Anticline Area, Sweetwater County, Wyoming.
- Hobbs, Billy Bob. Structure and Stratigraphy of the Argenta Area, Beaverhead County, Montana.
- Wood, Allan Deane. A Geologic and Mineralogic Study of the Bethlehem Copper Property at Highland Valley, British Columbia.

#### 1969—Masters

- Carlton, Richard Walter. The Structure and Stratigraphy of a Portion of the Trout Creek Mountains, Harney County, Oregon.
- Fankhauser, Robert Eugene. Geology and Mineralization of the Southern Cuddy Mountains, Washington County, Idaho.
- Glasheen, Richard Michael. Geology of the Whetstone Ridge Area, Meagher County, Montana.
- Muntzert, James Kay. Geology and Mineral Deposits of the Brattain District, Lake County, Oregon.
- Slater, Mical Neil. Geology and Mineral Deposits of the Western Cuddy Mountain District, Western Idaho.

#### 1970—Masters

- Bryant, George Thomas. The General Geology of the Northernmost Part of the Pine For-

est Mountains, Humboldt County, Nevada.

Burnam, Rollins. The Geology of the Southern Part of the Pueblo Mountains, Humboldt County, Nevada.

Gillespie, Clinton Dale. Geology of the Central Bond Creek Area, Nabesna, Alaska.

Hewitt, Samuel Loyd. Geology of the Fly Creek Quadrangle and the North Half of Round Butte Dam Quadrangle, Oregon.

Pungrassami, Thongchai. Geology of the Western Detroit Reservoir Area, Quartzville and Detroit Quadrangles, Linn and Marion Counties, Oregon.

Sharp, George Carter, Jr. Stratigraphy and Structure of the Greenstone Mountain Area, Beaverhead County, Montana.

Stensland, Donald Eugene. Geology of Part of the Northern Half of the Bend Quadrangle, Jefferson and Deschutes Counties, Oregon.

Wendell, William Glen. The Structure and Stratigraphy of the Virgin Valley-McGee Mountain Area, Humboldt County, Nevada.

Wracher, David Allen. The Geology and Mineralization of the Peck Mountain Area Hornet Quadrangle, Idaho.

#### 1967—Doctors

Vallier, Tracy Lowell. The Geology of Part of the Snake River Canyon and Adjacent Areas in Northwestern Oregon and Western Idaho.

#### 1968—Doctors

White, Willis Harkness. Plutonic Rocks of the Southern Seven Devils Mountains, Idaho.

## GEOPHYSICS

#### 1966—Masters

Hutt, Jeremy Reinboth. Relationships Between Thermal and Electrical Conductivities of Ocean Sediments and Consolidated Rocks.

#### 1967—Masters

Erickson, Barrett Henning. Marine Seismic Studies Near Newport, Oregon.

Souders, Robert Hunter. Angle of Emer-

gence of Seismic P Waves and Its Variation with Frequency.

#### 1968—Masters

Skorpen, Allan Jerome. Magnetic Profiles Across the Aleutian Trench and Ridge.

Vossler, Donald Alan. On the Influence of Terrestrial Heat Flow Anomalies on the Temperature Microstructure at the Ocean Floor.

**1969—Masters**

Mackay, Angus James. Continuous Seismic Profiling Investigation of the Southern Oregon Continental Shelf Between Cape Blanco and Coos Bay.

**1970—Masters**

Ma, Heau San. Sea Level Response to Low-Frequency Atmospheric Pressure Fluctuations Along the Northwestern American Coast.

**1966—Doctors**

Chiburis, Edward Frank. Crustal Structures in the Pacific Northwest States from Phase-Velocity Dispersion of Seismic Surface Waves.

**1967—Doctors**

Sarmah, Suryya Kanta. Attenuation of Compressional Waves in the Earth's Mantle.

**1968—Doctors**

Long, Leland Timothy. Transmission and Attenuation of the Primary Seismic Wave,  $\Delta=100$  to 600 KM.

Shih, Keh-Gong. On the Reduction and In-

terpretation of Ocean-Floor Temperature and Heat Flow Data.

Thiruvathukal, John Varkey. Regional Gravity of Oregon.

Trembly, Lynn Dale. Seismic Source Characteristics from Explosion Generated P Waves.

**1969—Doctors**

Couch, Richard William. Gravity and Structures of the Crust and Subcrust in the Northeast Pacific Ocean West of Washington and British Columbia.

Emilia, David Arthur. Numerical Methods in the Direct Interpretation of Marine Magnetic Anomalies.

Gallagher, John Neil. A Method for Determining the Source Mechanism in Small Earthquakes with Application to the Pacific Northwest Region.

**1970—Doctors**

French, William Stanley. Earthquake Waves Following the  $P_n$  Phase and Their Indications of Focal Depth and Crustal Structures in the Pacific Northwest States.

Mathews, Frank Samuel. The Electrical Conductivity of Atlantic Type Pyromagmas from Mount Etna, Sicily.

**GUIDANCE**

See also Education

**1966—Doctors**

Grenfell, John Elliot. The Effect of National Defense Education Act Counseling Institutes on the Measured Interests of Institute Enrollees.

**1967—Doctors**

Foster, Robert Morrison. An Analysis of Guidance Services in Selected High Schools in Oregon.

Irish, Grace. Behavioral Changes of Participants in Family Group Consultation.

**1968—Doctors**

Darby, Merlin Duane. The Relation of Sensitivity Training to Marital Integration of Graduate Student Husbands and Their Wives.

**1969—Doctors**

Young, Robert Hume. Current Practices in Guidance Services in the Secondary Schools of British Columbia.

**1970—Doctors**

Anderson, Edwin LeRoy. The Development of a Model for Computer Simulation of a Counseling Center.

Axmaker, Larry William. The Effect of Group Counseling on the Self-Concept, on the Motivation to Achieve and on the Proportion of Dropouts Among Unselected Community College Students at Southwestern Oregon Community College.

Taylor, Theodore David. Effects of Group Counseling on Self Concept and Academic Achievement of Selected High School Sophomore Health Classes.



## HEALTH EDUCATION

See also Education

### 1966—Masters

McHargue, Ruth Tarran. A Comparative Study of Physical Disorders of Educable Mentally Retarded Children and of Children of Normal Intelligence.

### 1966—Doctors

Shaw, Donald Dee. A Comparison of the Effectiveness of Teaching General Hygiene by Closed-Circuit Television and by Lecture Procedures.

### 1967—Doctors

MoAfee, Donald Claude. A Comparison of the Health Status of Incoming Freshmen at Oregon State University from 1930 to 1960.

## HOME ECONOMICS EDUCATION

### 1966—Masters

Eighme, Mary Margaret. Trends, Practices, and Beliefs Regarding the Teaching of Undergraduate Home Economics Methods Courses.

### 1968—Masters

Matheson, Edith Elsie. Former Homemaking Students' Beliefs Concerning Their Home-making Activities and Secondary School Homemaking Education.

### 1969—Masters

Alexander, Capi Forsgren. Teachers' Beliefs and Willingness to be Involved with Certain Aspects of Oregon Home Economics Education Curriculum.

Anh, Dang Thi. Home Economics Education Curriculum Development in Vietnam.

Haller, Michele Suzanne. Educational and Occupational Aspirations of Oregon Tenth Grade Girls.

Montag, Barbara Ann. The Development of Transparencies in Home Economics Education.

### 1970—Masters

Eaton, Lillian Alice. Personal and Professional Traits of Oregon Homemaking Teachers Identified as Effective by Students.

Season, Carol Burgin. Guidelines for the Production of 8mm Loop Films to Individualize Home Economics Instruction.

## HOME MANAGEMENT

### 1966—Masters

Kitchens, Helen Martin. Material Possessions and Selected Activity Patterns of Women Living in Retirement Housing.

Teitzel, Freda Anne. House Design Scores of Forty Corvallis, Oregon, Residences Related to Homemakers' Expressed Satisfaction and Ranking of Values.

### 1967—Masters

Hendrickson, Mary Robert. The Retirement

Income of a Selected Group of Retired Persons from Oregon State University.

Matsen, Shirley Suzanne. Selected Characteristics of Personal Bankruptcy Petitioners in Portland, Oregon.

Salcedo, Felita Nacino. Management Problems and Practices of Asian Graduate Students at Oregon State University.

### 1968—Masters

Eichelberg, Donna Marilyn. Housing Satis-

faction of a Selected Group of Older Women in Corvallis, Oregon.

Peterson, Shirley Holwegner. Factors Con-  
socioated with Selection and Satisfaction of  
Non-University Rental Housing as Stated  
by the Wives of Undergraduate Students  
Attending Oregon State University.

#### 1969—Masters

Carlson, Winona Havranek. Management  
Practices Used in Family Meal Service.

Evers, Norma Susan. Housing Expenditures  
and Factors Associated with Housing Se-  
lection and Satisfaction as Stated by a  
Group of Single Catholic Adults.

#### 1970—Masters

Echols, Melionee Allen. Identification of Man-  
agement Problems of Young Homemakers  
Married in Their Teens.

Hill, Marlene Evans. Meal Management Prac-  
tices Used in the Homes of Oregon State  
University Home Economics Graduates.

#### 1966—Doctors

Crabtree, Priscilla Horning. Current Finan-  
cial Resources Compared with Selected  
Characteristics of 60 Retired Couples.

#### 1969—Doctors

Hansen, Gary David. Home Managerial  
Tasks, Perceived Competence, and Related  
Social, Psychological, and Economic Con-  
sequences for Retired Couples.

## HORTICULTURE

#### 1967—Masters

Merrill, Stanley Clair. The Effect of Herbi-  
cides on the Pipecolic Acid Content of  
Strawberry Plants.

Sheets, Willis Arden. Factors Influencing  
Fruit Bud Formation and Yield of the  
Marion Blackberry.

#### 1968—Masters

Larson, Jerry Dale. The Effects of Tempera-  
ture, Photoperiod and Growth Regulators  
on Development of *Ajuga reptans* L.

Lin, Peggy Pei-Chi. Studies on Development  
and Flowering of *Lilium longiflorum*  
Thunb.

#### 1970—Masters

Mitidieri, Agustin. The Performance of N-(1,  
1-Dimethylpropynyl)-3,5-Dichlorobenza-  
mide and Other Herbicides in Controlling  
Weeds in Lettuce as Affected by Soil Type  
and Weather Conditions.

Reich, Jack Ernest II. The Use of 2,4-D, Par-  
aquat and Dinoseb for Control of Filbert  
(*Corylus Avellana* L.) Suckers.

Tsai, Jean-Duan. The Inheritance and Nature  
of a Symptomless Infection by a Willamette  
Strain of Pea Streak Virus in *Pisum sati-  
vum* L.

#### 1966—Doctors

Ali, Chaudary Niaz. Nucleic Acid, Carbohy-  
drate and Nitrogen Status of Juvenile and  
Adult Tissues of *Pyrus* Species, and Effect  
of Storage Temperature of *Pyrus* Cuttings  
on their Carbohydrate and Nitrogen Con-  
tents.

Lyons, Calvin Goodrich, Jr. The Influence of  
Increased Base Saturation and the Chloride  
Ion on *Fragaria ananassa*, Bailey.

#### 1967—Doctors

Adams, David Gordon. A Morphological Ap-  
proach to Predicting the Rooting-Potential  
of the *Rhododendron* Shoot.

Stevens, Mervin Allen. Chemistry and Genet-  
ics of Snap Bean (*Phaseolus vulgaris* L.)  
Flavor.

#### 1968—Doctors

Hartley, David Eugene. Growth and Flower-  
ing Responses of Easter Lily, *Lilium longi-  
florum* Thunb., to Bulb Storage.

#### 1969—Doctors

Bahadur, Raj. The Substitutional Relation-  
ship Between Precooling and Long Days on  
Growth and Floral Induction of Easter  
Lily *Lilium longiflorum* Thunb.

Wang, Chien-Yi. Physiology of Ripening in Pears.

Wang, Shiow-Ying. Physiology of Dormancy in *Lilium longiflorum* Thunb.

#### 1970—Doctors

Johnson, Charles Robert. The Nature of Flower Bud Influence on Root Regeneration in the *Rhododendron* Shoot.

Strausz, Stanley Douglas. A Study of the Physiology of Dormancy in the Genus *Pyrus*.

## INDUSTRIAL ENGINEERING

#### 1966—Masters

Gordon, Richard Allen. Analysis of Human and Equipment Performance in Critical Path Scheduling.

Moose, Victor Corson. Design, Construction, and Evaluation of a Mechanical Queueing Simulator.

#### 1968—Masters

Bladholm, John Roger. The Development and Application of a "Self-Help" Industrial Training Concept for the Fashion Apparel Industry.

Chiu, Wu-Yan. An Evaluation of Optimization Techniques for Production and Employment Scheduling.

Kanbe, Kenji. The Maximum Principle and Its Application to Industrial Engineering Problems.

#### 1969—Masters

Hudson, John William. Supplier Opportunity Cost of Lost Sales in the Aluminum Industry.

Ramalingam, Panchatcharam. Optimizers for

Single and Multi-Stage Job-Shop Scheduling Problems.

Sookawesh, Pala. Economic Comparison of Alternative Power Resource Development Plans in the Lower Mekong Basin.

Vincent, Julie Latham. An Economic Comparison of Hot Metal and Cold Type Composition of Display Advertising.

#### 1970—Masters

Elsner, Brian Jerome. A Study of Strategic and Tactical Decision Making Procedures.

#### 1967—Doctors

Inoue, Michael Shigeru. Systems Tableau: an Integrated Approach to Systems Theory.

#### 1968—Doctors

Van Gigch, John Peter. The Impact of Technology on the Mental Content of Work in Industrial Operations.

Dervisiotis, Kostas Nicolaus. An Investigation of the Influence of Choice Structure on Decision Making Behavior.

## INORGANIC CHEMISTRY

See also Chemistry

#### 1966—Masters

Burns, Bruce. The Kinetics of the Reaction Between Peroxydisulfate and Iodide Ions in Dimethyl Sulfoxide.

#### 1967—Masters

Gritton, George Vance. Studies Relating to the Preparation and Properties of Perfluoroalkyl Substituted Boranes.

#### 1968—Masters

Hanson, Dean Burton. Solvent Selectivity by an Organoclay Complex.

#### 1969—Masters

Bachman, David Franklin. Methanolysis of Tetrakis (Trichlorophosphine) Nickel (O).

**1970—Masters**

Lee, Albert Punpong. A U. V. Spectrophotometric Study of the Kinetics of Some Nucleophilic Displacement Reactions Involving Hydroxylamine-O-Sulfonate Ion.

**1966—Doctors**

Lerch, Ronald Edwin. Low Temperature Thermal Analysis of Some Boron Halide Complexes with Weak Lewis Bases.

**1967—Doctors**

Allen, William Lloyd. Synthesis and Properties of Trifluoromethyl Substituted Diboranes.

Clifton, James Roger. Reactions of Ethylamine and Diethylamine with Copper (I) and Copper (II) Chloride.

**1969—Doctors**

Gaswick, Dennis Charles. A Kinetic Investigation of the Mechanism and Intermediates of the Chromium(VI)-Iodide Reaction.

**1970—Doctors**

Ritter, Ronald Dale. Kinetics and Mechanisms of Displacement Reactions Involving Trithionate Ion.

## INSTITUTION MANAGEMENT

**1969—Masters**

Burwell, Frances Elizabeth. Effects of Four Handling Methods on Acceptability and Safety of Two Commercially Prepared Frozen Entrees as Served in a Residence Hall.

**1970—Masters**

Wickman, Patricia Cowley. A Composite of Food Service Curriculum Information for Use in Vocational Programs.

## MATHEMATICS

**1966—Masters**

Aalto, Sergei Kalvin. Reduction of Fredholm Integral Equations with Green's Function Kernels to Volterra Equations.

Brandt, Frank Peter. Indirect Proofs in Elementary Mathematics.

Bregel, Maurice Leonard. Proofs and Comparisons of the Mann-Dyson Estimation Theorems.

Burdg, Donald Eugene. A Synthesis of Significant Developments in the History, Calculation, and Properties of the Number Pi.

Caton, Gerald Lee. Proximate Orders and Generalized Indicators of Entire Functions.

Chutia, Bolindra Nath. On the Melting of Cylinders and Spheres.

Furcha, John Arthur. A Study of Symmetric Matrices and Quadratic Forms Over Fields of Characteristic Two.

Goslin, Dennis Irl. The Mathematical Structure of Rectangular Arrangements.

Hackert, Adelbert Frederick. Quadratic Integral Domains in  $\mathbb{R}[\sqrt{5}]$  and  $\mathbb{R}[\sqrt{-13}]$

Hirunraks, Anek. Two-Parameter Chart for Selecting Empirical Density Functions.

Hwang, John Dzen. A Real-Time Digital Control System for Two Hydroelectric Power Plants.

Johnson, Robert Carl. Tangential Families of Study Vectors.

Morgali, Ronald Ralph. Gaussian Integer Analogues of Two Theorems of Mann for Positive Integers.

Politopoulos, Anthony Nicholas. Stochastic Models of the Brownian Motion.

Seethoff, Terrance Lee. On the Pointwise Convergence of Certain Inductively Defined Sequences of Functions.

Shiflett, Ray Calvin. Uniform Convergence on Classes of Subsets.

Waldman, Wilmer Leo. The Four Color Problem Before 1890.

Waterman, Michael Spencer. The Exponential Family of Probability Distributions Generated by  $\delta$ -Finite Measures.

Wong, James Teng. On the Theory of Heat Transport in a Semi-Infinite Solid.

**1967—Masters**

- Bishop, Chester Oliver, Jr. Recursive Least-Squares Smoothing with Constant or Factorial Weights.
- Chang, Bai-Ching. The Extension Problem for Functions Invariant Under a Group.
- Clendening, Warren Gale. On the Shannon-Slepian Estimates of Probability of Decoding Error.
- Gregersen, Gordon Stanley. Khinchin's Theorem on the Schnirelmann Density of Sums of Sets of Integers.
- Haertel, Raymond Delbert. Summation Formulas for the Greatest Integer Part Function.
- Knobel, Roger Arlie. A Study of Factorization in  $I[\sqrt{-7}]$  and  $I[\sqrt{-23}]$ .
- Liebetrau, Albert Marvin. A Classification of Determinants Whose Evaluations Have Appeared in Periodical Literature.
- Massey, Dale Morrell. A Study of Factorization in  $Ra[\sqrt{-6}]$  and  $Ra[\sqrt{-21}]$ .
- Morton, John Baird. Numerical Solution of Hodgkin-Huxley's Partial Differential System for Nerve Conduction.
- Olson, Arthur Eugene, Jr. New Theorems and Examples for Freedman's Density Spaces.
- Olson, Kenneth Norman. Applying Probability to a Particular Hiring Practice.
- Pierce, Patricia Carrie. Some Conditions for a Given Positive Integer to Be Contained in a Sum of Sets of Nonnegative Integers.
- Szymanski, Henry Carl. Probability Theory as Applied to Slot Machines.
- Toribio, Andres Pada. Indirect Proofs.
- Upatisringa, Visutdhi. A Program for the Fundamental Theorem on Symmetric Functions.
- Van Enkevort, Ronald Lee. A Study of Unique Factorization in Quadratic Integral Domains.
- Waldman, Sue Elaine Hardy. The Quadratic Integral Domains  $Ra[\sqrt{-3}]$  and  $Ra[\sqrt{-15}]$ .
- Zell, William Lee. A Model of Non-Euclidean Geometry in Three Dimensions.

**1968—Masters**

- Bills, Gary Royce. An Investigation of Bivariate Approximations.
- Eschrich, Robert William. A Model of Non-Euclidean Geometry in Three Dimensions, II.

Gepner, James Richard. The Basis in Separable Banach Spaces.

Huang, Nancy Mang-Ze. A Construction of the Real Numbers Using Nested Closed Intervals.

Jacoby, Jerome Jess. Numerical Integration of Linear Integral Equations with Weakly Discontinuous Kernels.

Liepins, Nicholas. Lens Design on a Digital Computer.

Lindberg, Charles Gordon. A Cone Associated with the Lyapunov Mapping.

Mercier, Howard Thomas. A Predictor-Corrector Method for the Transient Motion of a Nonhomogeneous Incompressible, Viscous Fluid.

Ng, Benedict Loil-Chong. A Predictor-Corrector Method for Solving the Diffusion Equation for Water Movement in Unsaturated Soil.

Plotner, Nancy Darlene. A Study of Factorization in the Integral Domains  $Ra[\sqrt{-2}]$  and  $Ra[\sqrt{-31}]$ .

Wang, Mu-Lo. Relations Among Basic Concepts in Topology.

Yungen, Walter Arthur. Rigorous Computer Inversion of Some Linear Operators.

**1969—Masters**

- Akers, David Warren. First Order Differential Corrections in the Eigenvalue Problem.
- Beecroft, James Lewis. A Synthesis of Significant Developments in the History, Calculation, and Properties of the Number  $e$ .
- Hill, Edward Burlingame. A FORTRAN to ALGOL Translator.
- Hull, Harry Markwood. Numerical Solution of the Heat Equation by Net Methods.
- Jumani, Vishnu Balchand. Sheppard's Correction: Moment Relationships and Correction Terms.
- Knoshaug, Ronald Norman. Generalized Deformation-Rates in Secondary Flows of Viscoelastic Fluids Between Rotating Spheres.
- McClendon, Mickey Alton. A Model of Peano's Axioms in Euclidean Geometry.
- Miller, William Eugene. The Quadratic Integral Domains  $Ra[\sqrt{-11}]$  and  $Ra[\sqrt{-10}]$ .
- Noonchester, Howard Basil. Study of Effective Algorithms for Solving Polynomial Equations in One Unknown.

- Paik, Young Hyun. On the Calculations of the Coefficients of Cyclotomic Polynomials.  
 Sekino, Junpei. Universal Algebra.  
 Stoebig, Alan Robert. An Investigation of Selected Generating Functions.  
 Tryon, William Albert. Properties of Real Valued Continuous Functions in Relation to Various Separation Axioms.

#### 1970—Masters

- Lam, Paul Chun-Ming. Location and Description of Strokes in Chinese Characters by Digital Computer Methods as Part of an Automatic Translation of Chinese to English.  
 Lee, Martina Shoiw-Ling. Classical Implicit Finite Difference Method for Solving Diffusion Equation.  
 Margolis, Susan Paula. A Turing Machine Programming Language.  
 Winter, Lynn Taylor. Four Function Space Topologies.

#### 1966—Doctors

- Badii, Larry Lotfali. Applications of Integral Transforms in Generating Summable Series Involving Higher Transcendental Functions.  
 Kvarda, Robert Edward. Canonical States in Quantum Statistical Mechanics.  
 Nestell, Merlynd Keith. The Convergence of the Discrete Ordinates Method for Integral Equations of Anisotropic Radiative Transfer.  
 Phillips, John Richard. Eigenfunction Expansions for Self-Adjoint Bilinear Operators in Hilbert Space.  
 Prenter, Patricia Moira. The Extended Exponential of a Measure Space.  
 Wassmuth, Robert Henry. Some Complex Numerical Integrations of the Schwarz-Christoffel Transformation and Application to Potential Flow.  
 Weingarten, Frederick Wesley, Jr. On Triangulations of Fixed Points in the Plane.

#### 1967—Doctors

- Comstock, Dale Robert. An Operator Scheme for Computation with Turing Machines.  
 Cresswell, Donald Jay. The Relations Among the Modes of Convergence of Sequences of Measurable Functions.  
 Jerri, Abdul Jabbar Hassoon. On Extension

- of the Generalized Sampling Theorem.  
 Sra, Kewal Singh. Generalized Measures of Deformation-Rates in Non-Newtonian Hydrodynamics and Their Applications to Some Flow Problems.  
 Vongsuri, Sommai. A Method of Separation of Exponentials and Its Relationship to Time Domain Synthesis of a Finite Lumped-Parameter Relaxation System.

#### 1968—Doctors

- Aalto, Sergei Kalvin. An Iterative Procedure for the Solution of Nonlinear Equations in a Banach Space.  
 Boles, John Amos. The Logical Design of the NEBULA Computer.  
 Driessel, Kenneth Richard. Significance and Invariance in Mathematical Structures.  
 Farlow, Stanley Jerome. Periodic Solutions of Parabolic Partial Differential Equations.  
 Hill, Richard David. Generalized Inertia Theory for Complex Matrices.  
 Hwang, John Dzen. On Numerical Solutions of the General Navier-Stokes Equations for Two-Layered Stratified Flows.  
 Lindquist, Norman Fred. Representations of Central Convex Bodies.  
 McCoy, Michael Franklin. Optimal Stationary (s,S) Inventory Policies for Stochastically Convergent Demand Sequences.  
 Shen, Chung-Yi. Probability Densities and Correlation Functions in Statistical Mechanics.  
 Shiflett, Ray Calvin. Loops and Points of Density in Doubly Stochastic Measures.

#### 1969—Doctors

- Attia, Farag Abdel-Salam. On the Distribution Function of the Interval Between Zero-Crossing of a Stationary Gaussian Process.  
 Bakhshi, Vidya Sagar. Boundary Layer Transition.  
 Borah, Bolindra Nath. Thermo-Elastic-Plastic Transition.  
 Gamon, Kenneth Oakland. The Propagation of Waves and Pulses in the Presence of Conical Structures.  
 Green, Beryl Mansfield. Characterizations of Matrices for Which Certain Determinantal Equalities Hold.  
 Johnson, Robert Carl. Equivalent Stiefel-Whitney Classes.

- Lindstrom, Fredrick Thomas. A Mathematical Model Simulating Mass Transport of Chemicals in Saturated Porous Media.
- Middleton, William Adams. Electromagnetic Radiation and Heat Conduction Fields Near Coaxial Conical Structures.
- Seethoff, Terrance Lee. Zero-Entropy Automorphisms of a Compact Abelian Group.
- Wong, James Teng. On the Generalization of the Distribution of the Significant Digits Under Computation.
- 1970—Doctors**
- Alameddine, Ahmad Faouzi. Auxiliary Conditions for the Convergence of Sequences of Measurable Functions.
- Al-Ayat, Rokaya Abdel-Ghani. Initial and Boundary Value Problem for a Third Order Differential Equation of Parabolic Type.
- Anderson, Lee Roy. Numerical Methods for Variable Permeability Magnetostatic Field Problems.
- Elwin, John David. Homology Theories on the Mapping Category.
- Gabrielsen, Ralph Edwin. Numerical Aspects of the Inverse Sturm-Liouville Problem.
- James, Ralph Leland. Convergence of Positive Operators.
- Main, Robert Vaughn. A Critique of the Incidence and Order Axioms of Geometry.
- Nelson, Thomas Clayton. Universal Computing Systems. Part 1, Simulation of Any Normal Algorithm by Turing Machine. Part 2, A Universal Turing Machine to Translate Any Turing Machine to a Normal Algorithm.
- Short, Donald Ray, Jr. On the Theorems of Sard and de Rham.
- Southam, James Lewis. The Generating Function for Three-Line Partitions.
- Zelver, Jack Solomon. The Integro-Geometric Tangent Measures of Euclidean N-Space.

## MECHANICAL ENGINEERING

- 1966—Masters**
- Aoki, Tadao. The Study of Active Sites and Bubble Formation Frequency in Nucleate Boiling Heat Transfer.
- Atherton, George Harry. Drying Rates of Douglas Fir Veneer in Superheated Steam.
- Hodgkins, Chester Elmond. A Portable, Dual-Range Fuel Flowmeter for Automotive Research.
- Hsu, Yung-Shing. Acoustic Switching of Pneumatic Turbulence Amplifiers.
- Jarvis, Philip Arthur. Development of a Method to Determine the Penetration Velocity of a Powder Actuated Fastener.
- Meland, Bruce Roger. A Study of Field Burning Under Varying Environmental Conditions.
- Nishioka, Kenji. Effect of Pressure Coupling on Discontinuity Stresses in Shells.
- Peck, Roger Lee. An Investigation into the Mechanisms of Adherence Between Borosilicate Glass and Steatite Ceramic and Between Borosilicate Glass and Alumina Ceramic.
- Reid, Richard Stowell. The Effect of Air Injection at the Exhaust Ports of a Gasoline Engine on the Oxides of Nitrogen Emissions.
- Silke, Gerald William. Forced Vibration of a Beam-Pendulum System.
- Vongsuri, Sompong. An Investigation of Heat Transfer and Pressure Drop Across a Frosted Finned Coil.
- 1967—Masters**
- Corder, Stanley Eugene. Indentation Hardness of Douglas Fir and Western Hemlock Lumber Related to Density.
- Fritz, Dennis William. The Photoelastic Coating Method Applied to the Stress Analysis of Wood.
- Kowalczyk, John Francis. The Effects of Various Pre-Weighing Procedures on the Reported Weights of Air Pollutants Collected by Filtration.
- Letzkus, Howard John. Preliminary Design of an Agricultural Airplane.
- Waymire, James Lee. An Analysis of the Control and Economics of a Three-Pipe Heat Pump System.

- Wise, Kenneth Raymond. An Emission Sampling Device Installed, Operated, and Retrieved from Ground Level.
- Zimmerman, William Howard. The Design of a Photoelastic Load Cell.

### 1968—Masters

- Abbott, Vaughn William. The Effect of Small Amounts of Magnesium on the Superplastic Behavior of an Aluminum-Zinc Alloy.
- Hansult, Charles Clark. Stress Distribution Around Butt Joints in Laminated Lumber.
- Kuo, Ying-Ming. Solution of Unsteady, Two-Dimensional, Inviscid Flows.
- Nelson, Daniel Loren. Dynamic Measurement of Timoshenko Beam Shear Coefficient.
- Patton, John Dennis. Creep Studies on Pheasant, Narcissus and Chukar Aluminum Conductors.
- Seddigh, Foad. Effect of Initial Conditions on the Convergence Rate of the Energy Equation in Couette Flow.
- South, Veeder, III. Heat and Mass Transfer Rates Associated with the Drying of Plywood Veneer Using Superheated Steam at Various Angles of Impingement.
- Stoffel, Edward Oswald. The Effect of Entrance Configuration on Local Heat Transfer Coefficients in Subsonic Diffusers.
- Yun, Kyung Woo. An Experimental Study of the Acoustical Characteristics of Dampers in Air Conditioning Systems.

### 1969—Masters

- Anderson, Bruce Conrad. Gas-Liquid Chromatographic Determination of Low Molecular Weight Aliphatic Aldehydes in Diesel Engine Exhaust.
- Hafez, Ghassan M. Ihsan. Computer and Heating and Air Conditioning.
- Johnson, Leighton Wayne. End and Side Launching of Marine Vessels.
- Lee, Soon Mo. An Experimental Study of Natural Convection in Air Between a Vertical Isothermal Flat Plate and a Parallel Insulated Flat Plate.
- Meyers, Stanley Kent. The Design, Construction and Calibration of an Instrumented Surface for Convective Heat Transfer Studies.
- Shigehara, Roger Tokumi. Particulate and Total Gaseous Hydrocarbon Emissions

from a Gas Heated Veneer Dryer.

- Yu, Jin-Chyuan. Attitude Stability of a Symmetrical Satellite with Translational-Rotational Coupling.

### 1970—Masters

- Azarbaijani, Masoud. Agricultural Field Burning Plume Rise.
- Barlow, Dwight Edward. The Stress Analysis of a Truck Frame Bracket.
- Laity, Walter William. Heat and Mass Transfer Rates Associated with the Drying of Southern Pine and Douglas Fir Veneer in Air and in Steam at Various Temperatures and Angles of Impingement.
- Liffick, Glenn Lonngren. An Investigation of the Removal of Ozone by Activated Charcoal.
- Nelson, William George. Feasibility of Utilizing an Integrating Nephelometer to Measure Visibility.
- Zimmerman, Paul James. Heat Generation Rates of Nonfissionable Materials in a Nuclear Reactor Environment.

### 1967—Doctors

- Black, Charles Hartgraves. Effectiveness of a Fluidized Bed in Filtration of Airborne Particulate of Submicron Size.
- Edelman, Walter Eugene, Jr. Photomechanics of Stress Transfer Mechanisms in Composite Materials.
- Sandwith, Colin John. Correlations Between Crystal Orientation, Deformation Texture, and Indentation Anisotropy in Tungsten and Molybdenum Single Crystals.
- Wang, Hsien-Tsan. A Study of Attitude Stability of a Symmetrical Satellite in a Circular Orbit.

### 1968—Doctors

- Brenchley, David Lee. An Experimental Investigation of Combustion Products Through a Flat, Laminar, Premixed Hydrocarbon-Air Flame.
- Chambers, Alan B. A Model of Ciliary Streaming in the Respiratory System.
- Pagnani, Bruno Richard. An Explicit Finite-Difference Solution for Natural Convection in Air in Rectangular Enclosures.
- Shen, Yuan-Shou. The Phase Diagram of Zirconium and Chromium with Special Reference to the Transformation in the Intermetallic Compound  $ZrCr_2$ .



**1969—Doctors**

Cochrane, Glenn Frank, Jr. A Numerical Solution for Heat Transfer to Non-Newtonian Fluids with Temperature-Dependent Viscosity for Arbitrary Conditions of Heat Flux and Surface Temperature.

Dooley, George Joseph, III. Effects of Selected Minor Alloying Additions on the

Structure and Deformation Characteristics of Beryllium.

**1970—Doctors**

Aoki, Tadao. An Experimental Investigation of Transition Pool Boiling.

Yun, Kyung Woo. An Experimental Investigation of Aerosol Coagulation in the Shock Tube.

## METALLURGICAL ENGINEERING

**1967—Masters**

Stevens, Richard Francis, Jr. Effects of Neutron Irradiation on High-Purity Vanadium.

Wood, Floyd William. On the Distribution of Temperature and Heat Flow in Arc Melted Ingots.

**1970—Doctors**

Davis, Bernard Eric. Bulk Self-Diffusion in Single Crystal Alpha Hafnium-2.1% Zirconium.

Goodrich, David George. Low Temperature Deformation Characteristics of High Purity Zirconium Single Crystals.

## METEOROLOGY

**1966—Masters**

McElroy, James Lee. Relationships Between Air Quality and Thermal Structure of the Lower Atmosphere at Salem, Oregon.

Pavelka, Boris R. Some Effects of Meteorological Processes on the Air Quality in Medford, Oregon.

**1967—Masters**

Hutcheon, Richard James. Variations in Drop-Size Distributions as Measured with a Continuous Raindrop Recorder and Compared to Radar Echo Characteristics.

**1968—Masters**

Bower, Carl Albert, Jr. The Relationship Between Snow Crystal Types and the Prevailing Atmospheric Conditions Associated

with the Passage of Pacific Storms Observed at Santiam Pass in the Oregon Cascades.

Rinehart, Ronald Earl. The Meteorological Usefulness of a Maser RF Amplifier on a Highly Sensitive X-Band Weather Radar Receiver.

**1970—Masters**

Lamb, Robert Clay. A Climatology for Prescribed Fire in the Southeastern United States.

**1969—Doctors**

Reiquam, Howard Edward. Construction and Evaluation of an Airshed-Episode Model for Air Resource Management.

## MICROBIOLOGY

**1966—Masters**

Albin, Inga Anna Schroder. Effect of Quaternary Ammonium Compounds on Bacteria: Comparison of Sensitive and Resistant Strains of the Same Species.

Albright, Lawrence John. The Effect of Temperature and Hydrostatic Pressure on Deamination of L-Serine by *Vibrio marinus*, an Obligate Psychrophile.

- Hayes, Sidney Joseph, III. Occurrence of *Clostridium botulinum* Type E in Shellfish, Lake Fish and Aquatic Sediments in the Northwest.
- Kogut, Clara Marie. Effects of Chemical and Physical Agents Upon the Structure of *Streptomyces griseus* Phage 514-3.
- Nazeeri, Patsy Lundsteen. Survival Curves of Bacteria with Public Health Significance Irradiated in Crabmeat and in Hartsell's Broth.
- Nishikawa, Sumie Suzuki. The Inhibitory Effect of Cysteine on *Streptomyces griseus* Phage Reproduction.
- Shang, Janie Ching-Yin. An Electrophoretic Analysis of the Serum Proteins in Infectious Mononucleosis.
- 1967—Masters**
- Cowan, Judith Harmon Miller. The Size of the Chromosome Segment Transduced by Phage P1.
- Hauser, Bruce Allen. Studies on the Inhibition of Spoilage Organisms in Cottage Cheese by Lactic Streptococcus Organisms.
- Holmes, Beverly Ann. Some Factors Influencing Carbon Dioxide Production by *Leuconostoc citrovorum*.
- Kenis, Paul Robert. Thermally Induced Leakage and Viability Studies in an Obligate Psychrophilic Marine Bacterium.
- Kurahara, Carole Mahaney. Analysis of Segregants of F'gal Heterogenotes in *Escherichia coli*.
- Laudermilk, Patricia Joan. Materials Associated with the DNA Fraction of *Bacillus subtilis* W168.
- McCain, Bruce B. A Chromosome Analysis of Five Cell Lines from Four Species of Salmonid Fishes.
- McCollough, Marian Lorraine. Studies on the Fatty Acid and Lipid Composition of *Clostridium botulinum*.
- Paterno, Visitation Asi. A Study of the Fatty Acids and Lipids of *Clostridium botulinum* Type B.
- Quinn, Dorothy Jean. Gamma Irradiation Inactivation Kinetics of Medically Important Bacteria Contaminating Seafoods.
- Sanders, James Edward. Occurrence of the Protozoan Parasite *Ceratomyxa shasta* Among Salmonid Fishes in Oregon Waters.
- Stevens, James Orval. The Immunological Response of Sheep to Irradiated and Non-Irradiated Infectious Larvae of *Haemonchus contortus* (Rudolphi 1803) Cobb, 1898.
- Stiebrs, Anita. A Comparative Study of *Clostridium botulinum* Strains Using Differential Egg Yolk Media.
- Tolls, Terry Norman. Studies on Control of Diacetyl Off-Flavor in Beer.
- Weimer, Mary Stepahin. Purification and Kinetics of Gelatinase Obtained from an Obligately Psychrophilic Marine Vibrio.
- 1968—Masters**
- Brown, Ruth Elaine. Metabolism of Aromatic Bacteria as Related to Diacetyl Production.
- Burnison, Bryan Kent. Antagonistic Properties of Aquatic Myxobacteria and Pseudomonads.
- Frost, Gary Douglas. Oral Immunization for Possible Control of Furunculosis in Fish.
- Kimble, Charles Edward. The Lipids of Spore Types B, E and F and Vegetative Cell Types E and F of *Clostridium botulinum*.
- Ley, Ronald Douglas. A Comparison of Radiation Induced Lipid Changes in *Micrococcus radiodurans*, *Sarcina lutea*, and *Pseudomonas aeruginosa*.
- Miller, Wayne Warren. Studies on Glucose-6-Phosphate Dehydrogenase Obtained from *Vibrio marinus*, an Obligate Marine Psychrophile.
- Niedermeyer, Glenn John. *In Vitro* Detection and Typing of Toxins Produced by *Clostridium botulinum* Types A and B by Immunoelectrophoretic Techniques.
- Nims, Linda Jean. Susceptibility of Two Salmonid Fish Cell Lines to Two Viruses from Fish and Two from Homothermic Animals.
- Overholser, Donald Lee. Control of Furunculosis in Pacific Salmon by Immunization.
- Porter, Sook Hee. A Taxonomic Study on Myxobacteria Isolated from Fish.
- Radich, Paul Christian. An Ecological Study of the Lactic Streptococci.
- Rothman, Stanley. A Bacterial Disease of the American Shad (*Alosa sapidissima*)
- Shearer, Judith Ann. Biosynthesis of *Streptomyces griseus* Phage Deoxyribonucleic Acid.
- Smerda, Susan Mae. Excretion of Viable Salmonellae by *Salmonella*-Fed, Chlorine-Treated Nematodes.

**1969—Masters**

- Balstraz, Edwina Gene. Toxigenic and Non-Toxigenic Strains of *Clostridium botulinum* Type E. A. Differentiation by Immunodiffusion. B. Attempts to Induce Toxigenicity by Mutagenic Agents.
- Jakubowski, Walter. Poliovirus Adsorption by Soil Particles in Seawater.
- Orth, Donald Simms. Methods of Identifying Food Poisoning Staphylococci.
- Walter, Leslie Alva. Mechanisms of Lactose Metabolism by Strains of *Streptococcus lactis*.
- Wehr, Nancy Briggs. Herbicide Effects on *Bdellovibrio bacteriovorus*.
- Whinery, Janet. An Enzymatic Method for the Removal of Diacetyl from Fermented Beverages.

**1970—Masters**

- Brantner, Carol Jeanne. A Comparison of Some Physiological Properties of *Bacillus cereus* 569R with a Mutant Strain.
- Carlson, René Virginia. Ecological Study of Aquatic Myxobacteria in a Woodland Stream.
- Cooper, Mary Faith. Temperature-Salinity Effects on Net Protein Synthesis and Viability of *Vibrio marinus* MP-1, an Obligately Psychrophilic Marine Bacterium.
- Freitas Leitao, Mauro Faber de. Thermal Resistance and Characterization of *Vibrio parahaemolyticus* by Gel Electrophoresis of Culture Supernatants.
- Gould, Rowan Wayne. Occurrence of the Protozoan Fish Parasite *Ceratomyxa shasta* in the Deschutes River basin and the Ultrastructure of the Spore.
- Harrison, Michael John. Bacteria-Phosphate Interactions in Upper Klamath Lake Sediments.
- Nitsos, Peggy Koerner. Fresh Water Myxobacteria: a Taxonomic Study.
- Pfeifer, Donald Kurt. The Infra-Red Absorption Spectra of the *Clostridia*.
- Radich, Ruth Elaine. The Inhibitory Effect of *Streptococcus diacetilactis* on the Growth of *Staphylococcus aureus* in Milk and Vanilla Cream Filling.
- Rockhill, Robert Clayton. Fungal Growth Responses to a Photooxidized Sodium Ligninsulfonate.

- Rust, Patricia Joy. Isolation and Characterization of a Bacteriophage for *Cytophaga succinicans* (RL-8)

**1966—Doctors**

- Gawel, Len Joseph. The Respiration Characteristics of Ocean Bay Sediments and Selected Marine Isolates.
- Haight, Roger Dean. General Studies of Temperature Effects on an Obligate Psychrophile, *Vibrio marinus*.
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**1967—Doctors**

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**1969—Doctors**

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**1968—Masters**

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Englander, Carol Marcus. Stimulation of Mycelial Growth of *Endothia parasitica* by Specific Heavy Metals That Detoxify Accumulated Oxalate.

#### 1966—Doctors

Buangsuwon, Pairoj. Host Range, Serological and Electron Microscope Studies of Phages of *Agrobacterium tumefaciens* (Smith and Townsend) Conn.

Ostrowski, Richard Carl. The Relationship of Phloem Graft Union Responses to Pear Decline.

#### 1967—Doctors

Nemec, Stanley, Jr. Isolation, Purification and Other Studies of Viruses Mechanically Transmitted from Pear.

#### 1968—Doctors

Bolwyn, Bart. Relation of Boron to Cherry Rosette Disease in Oregon, and the Possible Implication of a Virus.

Byther, Ralph Sumner. Etiological Studies on Foot Rot of Wheat Caused by *Cerco-sporella herpotrichoides* Fron.

Highley, Terry Leonard. Comparison of Pectic Enzymes in Resistant and Susceptible Mints Infected by *Verticillium dahliae*.

Intrama, Siriphong. Coniothyrium Rose Cancer in Oregon.

Maas, John Lewis. Factors Affecting Development of Iris Rhizome Rot Caused by *Botrytis convoluta* Whetzel and Drayton.

Sen, Arun Kumar. Bionomics of the Hop Cyst Nematode, *Heterodera humuli* Filipjev, 1934 (Nematoda: Heteroderidae)

Siemer, Sidney Richard. Resistance Mechanisms Against Onion Pink Root *Pyrenochaeta terrestris*), Bioassay of Inoculum Potential in Soil and Chemical Control.

Zehsazian, Hassan. Verticillium Wilt of Hops: Pathogenicity, Host Range, and Temperature Relations of the Causal Agents.

#### 1969—Doctors

Carlstrom, Robert Charles. Survival of *Verticillium dahliae* in Soil.

Chantanaro, Aroon. Transmission of Plant Pathogenic Bacteria and a Bacteriophage of *Agrobacterium tumefaciens* (Smith and Townsend) Conn by a Saprozoic Nematode, *Diplogaster lheriteiri* Maupas, 1919.

Melouk, Hassan Aly. Production of Polygalacturonase and Macerating Enzymes by *Phoma menthae*.

Shaner, Gregory Ellis. Epidemiology of Stripe Rust (*Puccinia striiformis* West.) of Wheat in Oregon.

Sherrod, Leslie Lynn. Nature of Resistance to *Verticillium dahliae* Kleb. in Strains of Peppermint (*Mentha piperita* L.) Developed by Irradiation.

#### 1970—Doctors

Baldwin, Charles Harry, Jr. Pectolytic Enzyme Production by *Fusarium oxysporum* f. sp. *lycopersici*.

Grable, Carl Ivan. Copper Tolerance in Four Fungal Species.

Harman, Gary Elvan. Purification and Properties of the Polygalacturonases Produced by *Fusarium oxysporum* f. sp. *lycopersici*.

Yorston, John McKay. The Interactions of *Pratylenchus penetrans* with Host Plants, *Longidorus elongatus* and *Verticillium dahliae*.

## PLANT PHYSIOLOGY

## 1966—Masters

McKenna, John Michael. Spinach Peroxidase and the Photo-Oxidation of Manganese by Isolated Chloroplasts.

## 1967—Doctors

Jackson, Earl Kenneth. Propionate Metabolism and Its Relationship to Leghemoglobin Biosynthesis in Soybean Nodules.

Wilson, Richard Hansel. The Effect of Univalent Cation Salts on Properties of Pyruvate Kinase.

## 1969—Doctors

Cowles, Joe Richard. Some Properties of Ribonucleotide Reductase in *Rhizobium* Species.

Ecklund, Paul Richard. Physiology of Senescence of the Shoot Apex in *Pisum sativum* L.

## 1970—Doctors

Nitsos, Ronald Eugene. The Effects of Univalent Cations on the Activity of Particulate Starch Synthetase.

Norris, Logan Allen. Qualitative Changes in Cytoplasmic Proteins in Plants Treated with Growth Regulating Chemicals.

## POULTRY SCIENCE

## 1966—Masters

Abercrombie, Gary Lewis. Vitamin Requirements of Growing Japanese Quail (*Coturnix coturnix japonica*)

## 1967—Masters

Mirosh, Larry Wayne. Endocrinology of Sex-Linked-Recessive Dwarf White Leghorn Chickens, *Gallus domesticus*, with Special Reference to the Thyroid.

## 1968—Masters

Johnston, Norman Paul. Time of Insemination and Oviposition as Related to Fertility of Female Domestic Fowl.

Pautz, Roland Karl. The Effect of Storage Atmosphere on the Subsequent Hatching Performance of Coturnix Quail, Turkey and Chicken Eggs.

## 1969—Masters

Kuhns, Russell Victor. Effect of Vitamin E, Ethoxyquin and Linoleic Acid on Reproduction of White Leghorn Males.

## 1970—Masters

Hughes, Buddy Lee. Fertility in the Domestic Hen as Related to the Events of the Reproductive Cycle.

## 1966—Doctors

Rachapaetayakom, Prateap. Development and Evaluation of Essential Amino Acid Mixtures in Broiler and Layer Rations Formulated Manually or by Linear Programming.

## 1970—Doctors

Al-Soudi, Khalid A. Selection for Growth in *Coturnix coturnix japonica* on a Low Protein Ration.

## RADIATION BIOLOGY

## 1966—Masters

Lin, David Hung Yu. Development of Mitochondria-Rich Cells in Gill Epithelium of Coho Salmon *Oncorhynchus kisutch* During Seawater Adaptation.

## 1968—Masters

Monie, Herbert Joseph. Radiation Inhibition of Salt-Water Adaptation in Fish.

**1966—Doctors**

Marks, Darrell Lee. Effect of X-Irradiation Upon Glucose Catabolism in the Intact Rat.

**1969—Doctors**

Estes, George Osgood. The Influence of Dimethyl Sulfoxide (DMSO) on Growth and the Uptake of Nutritive Elements in *Phaseolus vulgaris* L. and *Solanum tuberosum* L.  
Johnson, Tod Schaefer. Cellular Dynamics of the Intestinal Epithelium of Coho Salmon, *Oncorhynchus kisutch*, as Influenced by Temperature and X-Rays.

Lappenbusch, William Louis. The Effect of Dimethyl Sulfoxide (DMSO) on the Radiosensitivity of the Rough-Skinned Newt (*Taricha granulosa*).

Prince, John Robert. Rate of Catabolic Pathways of Glucose in the Intact Rat.

**1970—Doctors**

Valett, Bryan Batson. The Uptake, Retention, and Distribution of <sup>60</sup>Co, <sup>65</sup>Zn, <sup>85</sup>Sr, and <sup>131</sup>I in the Rough-Skinned Newt (*Taricha granulosa*): a Radio-Ecological Study.

## RADIOLOGICAL PHYSICS

**1966—Masters**

Aaserude, Robert Arnold. Enlarging Radiation Survey Read-Outs for Large Audience Viewing.

Burnett, Bruce Merl. Measurement of Peak Kilovoltage Across X-Ray Tubes by Ionization Methods.

**1967—Masters**

Envall, Kenneth Roy. Measurement of Gastro-Intestinal and Gonadal Exposures in Routine Upper Gastro-Intestinal Examinations Using a Conventional and an Image Intensifier Fluoroscope.

Lentsch, Jack Wayne. Absorbed Dose from X-Rays in Soft Tissue Adjacent to Bone Measured by Induced Conductivity in Polyethylene Films.

Semler, Mark Orion. Design and Construction of an X-Ray Machine for Lecture Demonstration.

**1968—Masters**

Elle, Donald Robert. Design and Construction

of an X-Ray Diffraction Teaching Device.  
Meck, Robert Allen. Argon-41 Production by the OSU TRIGA III Reactor.

Properzio, William Stuart. A Study of the Deterioration of X-Ray Fluoroscopic Screens.

**1969—Masters**

Gragg, Royce Lynn. The Distribution of Leakage Radiation from an Unshielded Diagnostic-Type X-Ray Tube Housing.

Gross, Richard Eugene. A Study of Relative Speeds of Medical X-Ray Film and Intensifying Screen Combinations.

Weaver, Kenneth Earl. The Design and Construction of an Ionization Chamber to Measure Background Radiation.

**1970—Masters**

Boothe, Gary F. Pulse Reader for Ionization Chambers.

Clarke, Arthur Porter. The Design, Construction and Calibration of a Low-Energy, Low-Exposure-Rate Ionization Chamber.

Stovall, John Walter. A Study of the Thermal Characteristics of X-Ray Tube Housings.

## RANGE MANAGEMENT

**1966—Masters**

Pessot Zorich, Rafael. Evaluation of Species Composition by Four Methods on Two Perennial Grass Pastures (*Festuca arundinacea* Schreb. and *Lolium perenne* L.)

Grazed Lightly and Heavily in Western Oregon.

**1968—Masters**

Schrumpf, Barry James. Methodology for

Cuticular Identification of Selected Eastern Oregon Range Plants.

**1969—Masters**

Bauer, Welby. Evaluation of Dry-Weight-Rank and Microscopic Point Techniques for Seasonal Botanical Analysis of Two Pasture Mixtures.

**1970—Masters**

Markgraf, Peter Marion. Herbage Production on Three Vegetation Types in the High Desert of Eastern Oregon.

Martin, Niels LeRoy. Development of a Legend and Key for Ecological Resource Analysis in the 15-Mile Administrative Unit, Malheur County, Oregon.

**1966—Doctors**

Bailey, Arthur Wesley. Forest Associations and Secondary Plant Succession in the Southern Oregon Coastal Range.

Bedell, Thomas Erwin. Seasonal Cattle and Sheep Diets on *Festuca arundinacea-Trifolium subterraneum* and *Lolium perenne-Trifolium subterraneum* Pastures in Western Oregon.

Sharp, Lee Ajax. Vegetation and Animal Responses to Grazing Crested Wheatgrass

at Three Intensities and Two Seasons in Southern Idaho.

Urness, Philip Joel. Influence of Range Improvement Practices on Composition, Production, and Utilization of *Artemisia* Deer Winter Range in Central Oregon.

**1967—Doctors**

Hall, Frederick Columbus. Vegetation-Soil Relations as a Basis for Resource Management on the Ochoco National Forest of Central Oregon.

**1968—Doctors**

Pettit, Russell Dean. Effects of Seeding and Grazing on a Clearcut-Burn in a Mixed-Coniferous Forest Stand of the Wallowa Mountain Foothills.

Turner, Robert Bruce. Vegetation Changes of Communities Containing Medusahead (*Taeniatherum asperum* (Sim.) Nevski) Following Herbicide, Grazing, and Mowing Treatments.

**1970—Doctors**

Segura-Bustamante, Mariano. Ecology of Bitterbush (*Purshia tridentata* (Pursh) DC) in the Silver Lake Deer Winter Range, Oregon.

## RECREATION

See Geography

## SCIENCE EDUCATION

**1966—Doctors**

Craven, Gene Francis. Critical Thinking Abilities and Understanding of Science by Science Teacher-Candidates at Oregon State University.

Fiasca, Michael Aldo. Feasibility of Integration of Selected Aspects of (CBA) Chemistry, (CHEMS) Chemistry and (PSSC) Physics into a Two Year Physical Science Sequence.

Gee, Burton Cleon. Attitudes Toward Mathematics and Basic Mathematical Understanding of Prospective Elementary School

Teachers at Brigham Young University.

Hutchinson, John Stuart. Automated Science Curriculum: an Experimental Science Program.

Jorgensen, Harold Christen. Characteristics of Teachers Submitting Applications for Academic Year Institute Programs at Oregon State University.

Martin, Bernard Loyal. Spatial Visualization Abilities of Central Washington State College Prospective Elementary and Secondary Teachers of Mathematics.



Sorensen, Lavar Leonard. Change in Critical Thinking Between Students in Laboratory-Centered and Lecture-Demonstration-Centered Patterns of Instruction in High School Biology.

#### 1967—Doctors

Brown, Terrance Ralph. Attitudes Toward Science and Critical Thinking Abilities of Chemistry and Non-Chemistry Students in the Tacoma Public Schools.

Hale, James Robert. The Outcomes of Participation in Science Project Activities Among Ninth Grade Science Students in Multnomah County, Oregon.

Kellough, Richard Dean. An Experiment in the Teaching of Biology to Slow Learners in High School.

#### 1968—Doctors

Durst, Harold Everett. An Evaluation of an Experimental Biology Course Employing Some Cognitive and Non-Cognitive Achievements as Criteria.

Hankins, Lela, Ruth. A Determination and Selection of a Biology Course Content of Significance for a Freshman Level General Education Course.

Saunders, Walter Lane. Verbal-Numerical Achievement in a Required College Physical Science Course and Some Personality Correlates.

#### 1969—Doctors

Broadhurst, Norman Arthur. A Study of Selected Teacher Factors and Learning Out-

comes in Chemistry in Secondary Schools in South Australia.

Denney, Clifford Owen. A Comparison of Student Performance in Lower Division Collegiate General Chemistry Programs Between Selected Community Colleges and Four-Year Institutions in Oregon.

McIntosh, Harold LeRoy. An Integrated Physics-Chemistry Course in a Liberal Arts College.

Nelson, Bruce Edward. The Relationship of Mathematics in Oregon High Schools to Placement and Success in First-Year Mathematics at Oregon State University.

Stronck, David Richard. The Comparative Effects of Three Seventh-Grade Science Programs with Different Laboratory Materials.

Tolman, Richard Robins. Student Performance in Lower Division Collegiate General Biology Programs in Selected Community Colleges and Four-Year Institutions in Oregon.

#### 1970—Doctors

Beard, Jean. Group Achievement Tests Developed for Two Basic Processes of AAAS *Science—a Process Approach*.

Steffani, Ronald Rudolph. Some Effects of Grouping by Subject Matter Major on Student Performance in College Calculus.

Streitberger, Horst Eric. Teacher Influence-Behaviors and Teacher-Student Interaction Patterns in Selected Oregon Chemistry Classes.

## SOILS

#### 1966—Masters

Hay, James Ronald. The Relationships Between Zinc, Iron, and Phosphorus in Sweet Corn.

Mangum, Doris Louella. Influence of Anhydrous Ammonia on the Solubility of Soil Organic Matter.

Stannard, David Robertson. Water Loss and Uptake in Clayey Subsoil Materials.

#### 1967—Masters

Babalola, Olaoluwa. The Effect of Soil

Moisture Suction and Soil Temperature on Transpiration, Photosynthesis and Respiration in Monterey Pine (*Pinus radiata D. Don*)

Loqa, Harith Jabbouri. Effects of Sulfur on Yield and Plant Sulfur of Subterranean Clover.

Paeth, Robert Carl. Depositional Origin of Mima Mounds.

Somera, Rosa Duro. Iron and Manganese Distribution and Seasonal Oxidation Changes in Soils of the Willamette Drainage Sequence.

**1968—Masters**

- Kowsar, Ahang. Effects of Petroleum Mulch on Soil Water Content and Soil Temperature.
- Murarka, Ishwar Prasad. The Effect of Fertilizer Treatments on Nutrient Uptake, Yield, and Quality of Winter Wheat on Selected Western Oregon Soils.
- Tarnocai, Charles. Amount and Chemical Composition of Under-Story Vegetation in Alsea Basin Forest Communities.
- Webster, Stephen Russell. Nitrogen 15 Studies with Nonleguminous Nitrogen-Fixing Plants.

**1969—Masters**

- Araos, Jose Fernando. Availability of Phosphorus in Central Oregon Soils in Comparison with Selected Oregon Soils.
- Attavirojana, Pitsanu. Nodulation Problems with Alfalfa and Subterranean Clover on Selected Oregon Soils.
- Doak, William Herman. A Qualitative and Quantitative Characterization of Porosity in Volcanic Ash.
- Hu, Lily Jho-Yuan. Soluble Carbon and Respiration of Forest Humus.
- Huettig, Myron Allen. The Effect of Fertilizer Treatments on Oil Content and Nutrient Concentration of Peppermint in Western Oregon.
- Janghorbani, Morteza. The Relationship of Exchange Acidity and Exchangeable Aluminum in Limed and Unlimed Profile Samples of Soil from Western Oregon to the Yield and Chemical Composition of Alfalfa.
- Ross, Erric Virgil. Molybdenum Status of Selected Oregon Soils and Subterranean Clover Response to Molybdate.
- Schreiber, Jonathon Dennis. Kinetics and Thermodynamics of CIPC Adsorption on Several Oregon Soils.

**1970—Masters**

- Amujo, Stephen Jimo. Growth Rate of Wheat (*Triticum aestivum* L., var. Gaines) as a Function of Moisture Stress and Nitrogen Supply.
- Gelderman, Frederick William. Willamette and Associated Soils on Late Pleistocene Geomorphic Surfaces, Polk County, Oregon.

- Kuo, Eugene Cheng-Yen. The Movement and Adsorption of 2,4-Dichlorophenoxy-acetic Acid in Selected Oregon Soils.
- Kuo, Tsungmin. Soil Physical Conditions and Nitrogen Fixation of Soybeans (Glycine max. Merrill, var. Chippewa 64)
- Laopirojana, Pojanee. Effects of Residual and Applied Nitrogen on Nugaines Wheat.
- Scott, William. Effect of Snowbrush on the Establishment and Growth of Douglas-Fir Seedlings.
- Wert, Stephen Robert. Septic-Tank Drainfield Performance in Five Willamette Valley Soils.

**1966—Doctors**

- Cochran, Patrick Holmes. Heat and Moisture Transfer in a Pumice Soil.
- Cox, Lloyd Morris. The Transpiration Process as a Function of Environmental Parameters.
- Singleton, Paul C. Nature of Interlayer Material in Silicate Clays of Selected Oregon Soils.
- Stammers, William Norman. The Steady State Flow of Water Through Unsaturated Soil in the Low Capillary Potential Region.

**1967—Doctors**

- Carstea, Dumitru Dumitru. Formation and Stability of Al, Fe, and Mg Interlayers in Montmorillonite and Vermiculite.
- Chichester, Frederick Wesley. Clay Mineralogy and Related Chemical Properties of Soils Formed on Mazama Pumice.
- Maas, Eugene Vernon. Manganese Absorption by Barley Roots.
- Mason, Benjamin Jordan. Selective Inhibition of Ion Absorption by Uranyl.

**1968—Doctors**

- Klock, Glen Orval. Pore Size Distributions as Measured by the Mercury Intrusion Method and Their Use in Predicting Permeability.

**1969—Doctors**

- Kerridge, Peter Campbell. Aluminum Toxicity in Wheat (*Triticum aestivum* Vill. Host).
- Westermann, Dale Thomas. The Effect of Selected Potassium Salts on the Availability of Soil Manganese.

**1970—Doctors**

Borchardt, Glenn Arnold. Neutron Activation Analysis for Correlating Volcanic Ash Soils.

Paeth, Robert Carl. Genetic and Stability Relationships of Four Western Cascade Soils.

Skipper, Horace Dean. Hydrolysis and Biological Degradation of Atrazine in Soils.

Thomas, Byron Richard. The Role of Soil-Water Depletion and Plant-Moisture Stress in Soil Classification and Cambial Activity of Douglas-Fir.

## STATISTICS

**1966—Masters**

Bengston, Steven John. A Mathematical Model for Optimum Timber Allocation.

Chiang, Hung-Fu. Estimation of Integer-Valued Parameters.

**1967—Masters**

Huszar, Charles Karoly. The Use of Objective Sampling Procedures in Estimating Oregon Filbert Production.

Markham, Terrence Floyd. Sampling Inspection Plans for Attributes Derived for the Lumber Industry.

Pugh, James Donald. Testing Equality of Two Regressions.

Yates, Thomas Leyba. An Integer Programming Procedure for Scheduling Instructors.

**1969—Masters**

Gruen, Joanne Frances. Conditional Prob-

ability Along a Path.

**1969—Doctors**

Burnett, Thomas Danforth. Estimation of Stochastically Varying Regression Parameters.

Fossum, Robert Ross. Models for Statistical Dynamic Prediction of the 500-Millibar Surface.

Phillips, Charles James. Consistent Empirical Approximation of A-priori Distributions.

**1970—Doctors**

Hirunraks, Anek. Nonparametric C-Sample Tests for Arbitrarily Censored Data.

Reinmuth, James Elroy. Empirical Studies on the Estimation of Variances in Linear Regression Models.

Youssef, Mary Naguib. Optimization Techniques for Time-Shared Computer Systems.

## SYSTEMATIC BOTANY

**1966—Masters**

Gottlieb, Leslie David. Hybridization Between *Arctostaphylos viscida* and *A. canescens* in Oregon.

**1966—Doctors**

Dean, Milton Lee. A Biosystematic Study in the Genus *Aster*, Section *Aster*, in Western North America.

**1967—Doctors**

Carlbon, Curt Gerald. A Biosystematic Study of Some North American Species of *Agrostis* L. and *Podagrostis* (Griseb.) Scribn. & Merr.

**1970—Doctors**

Tyrl, Ronald Jay. Origin and Distribution of Polyploid *Achillea* (Compositae) in Western North America.

## TEXTILES

See Clothing, Textiles, and Related Arts

## VETERINARY MEDICINE

### 1966—Masters

Heifer, Donald Harold. *Meriones unguiculatus*, a New Experimental Host for *Fasciola hepatica*.

### 1969—Masters

Burdett, Ramsay George. Some Aspects of an Hemophilus Infection in the Laboratory Rat.

Schlegel, Michael Wesley. Definitive Hosts of the Trematode Vector, *Nanophyetus salmincola*.

### 1970—Masters

Sprinker, Lucas Harry. Histologic Effects of Chronic Selenium Deficiency in Selected Tissues of Laboratory Rats.

## WILDLIFE MANAGEMENT

### 1966—Masters

Miller, Frank Lawrence. Distribution Patterns of Black-Tailed Deer (*Odocoileus hemionus columbianus*) in Relation to Environment.

### 1967—Masters

Chapman, Joseph Alan. Population Characteristics, Hunter Kill, and Productivity of Dusky Canada Geese.

Henny, Charles Joseph. Population Characteristics of the Dusky Canada Goose as Determined from Banding Data.

### 1968—Masters

Sisson, Leonard Harold. Calling Behavior of Band-Tailed Pigeons in Reference to a Census Technique.

### 1969—Masters

Langowski, David Jerome. Responses of Instrumentally Conditioned Starlings to Aversive Acoustic Stimuli.

Morse, Thomas Earl. Nest Box Selection of

Wood Ducks as Influenced by Color and Site Factors.

Silovsky, Eugene Donald. Distribution and Mortality of the Pacific Coast Band-Tailed Pigeon.

### 1970—Masters

Keppie, Daniel MacKenzie. The Development and Evaluation of an Audio-Index Technique for the Band-Tailed Pigeon.

Powers, Roger Alan. The Reproductive Biology of the Mountain Cottontail Rabbit in Oregon.

Trethewey, Donald Edwin. Reproduction in the Eastern Cottontail Rabbit in Oregon.

### 1969—Doctors

Rymon, Larry Maring. A Critical Analysis of Wildlife Conservation in Oregon.

### 1970—Doctors

Chapman, Joseph Alan. Orientation and Homing of the Brush Rabbit.

## ZOOLOGY

### 1966—Masters

Chan, Elaine Chi-Ling. Effects of Chronic Coumestrol Administration on Female Rats.

Clothier, Glen Warren. An Investigation into the Metamorphosis of *Dicamptodon ensatus* (Eschscholtz).

Hollenbeck, Robert Rudolph. The Early De-

velopment of *Ambystoma macrodactylum* Baird, with Emphasis on the Larval Stages.

Johnson, Tod Schaefer. The Renewal of Intestinal Epithelial Cells in the Western Fence Lizard, *Sceloporus occidentalis* (Baird and Girard 1952).

Maser, Christopher Ottmar. Life Histories and Ecology of *Phenacomys albigipes*, *Phenacomys longicaudus*, *Phenacomys silvicola*.

Shumake, James Michael. Physiology of the Corpus Luteum of the Rat.

Wernz, James George. Pre-Hatching Stages of the Tailed Frog, *Ascaphus truei* (Stejneger)

Wyandt, Herman Edwin, Jr. The Comparative Histology of Light Organs in Four Pacific Myctophids of the Genus, *Lampanyctus*.

York, James Walter. An Histochemical Study of the Changing Patterns of Glycogen Distribution in the Uterus and Extra-Embryonic Membranes of the Golden Hamster (*Mesocricetus auratus* Waterhouse)

#### 1967—Masters

Alspach, George Samuel, Jr. Aspects of Osmoregulation in an Intertidal Shore Crab, *Hemigrapsus nudus* (Dana)

Barnes, James Ray. The Morphology and Ecology of Echinorhynchus Lageniformis Ekbaum, 1938 (*Acanthocephala*)

Behrisch, Hans Werner. The Relationship Between Body Size and Metabolism in *Lepomis macrochirus* Rafinesque.

Brodie, Edmund Darrell, Jr. Investigations on the Toxin of *Taricha granulosa*.

Dorsch, Anthony James. Aggregational Behavior in the Boreal Toad *Bufo boreas boreas* Baird and Girard.

Gethmann, Richard Charles. Crossing Over in a Reversed Acrocentric Attached-X Chromosome of *Drosophila melanogaster*.

Haertel, John David. Experimental Hybridization Between *Rana pretiosa pretiosa* Baird and Girard and *Rana cascadae* Slater.

Inhelder, Carol Marie. Fine Structure and Histochemistry of the Cuticle of the Cercaria of *Acanthatrium oregonense* (Macy).

Lidrich, Joseph Stanley. The Role of the Eyestalk in Sodium Metabolism in the Crayfish *Pacifastacus leniusculus*.

Long, Edward Ray. The Associates of Four Species of Marine Sponges of Oregon and Washington.

Parsons, Robert Hathaway. Effect of Temperature on Osmotic Regulation in Larval *Ambystoma gracile*.

Thompson, Rogene Kasperek. Respiratory Adaptations of Two Macrurous-Anomuran Mud Shrimps, *Callinassa californiensis* and

*Upogebia pugettensis* (Decapoda, Thalassinidea)

Wyse, Beatrice Milas. Cholinesterase Activity and Sodium Transport in the Frog Skin.

#### 1968—Masters

Baker, Carol Dianne. A Study of the Effects of Exposure to Air on the Respiration of Two Intertidal Snails.

Carter, Richard Thomas. The Morphology and Sexual Maturation of *Philometra americana* Ezbaum, 1933 (Dracunculioidea: Philometridae)

Chatlynne, Louise Geller. A Histochemical Study of Oogenesis in the Sea Urchin, *Strongylocentrotus purpuratus*.

Hall, James Raymond. Some Digenetic Trematodes of Oregon's Tidepool Cottids.

Lin, Samuel. A Study of the Effect of 1, 2-Alpha-Methylene-6-Chloro-Delta-4, 6-17-Alpha-Hydroxy Progesterone Acetate on the Adult Male Rat Including Changes in the Cell Associations of the Germinal Epithelium.

Wall, David Jerome. Effects of Temperature on the Development of *Fasciola hepatica* Larval Forms in *Lymnea columella*.

#### 1969—Masters

Gibson, Linda Suzanne. Seasonal Variations in the Integumental Histology of the Newt, *Taricha granulosa* (Skilton)

Hartman, Michael Colyn. The Algal Symbionts of the Solitary Green Sea Anemone *Anthopleura xanthogrammica*.

Law, Daniel Tin-Hung. The Biology of *Nanophyetus salmincola* (Chapin) in Its Snail Intermediate Host, *Oxytrema silicula*.

Moon, Thomas William. Aspects of Respiration in Vertically Separated *Mytilus californianus* (California Sea Mussel)

Saigo, Barbara Woodworth. The Relationship of Non-Recovered Rodent Caches to the Natural Regeneration of Ponderosa Pine.

Smith, Randall William. The Swimming Response to the Sacconereis Stage of *Auto-lytus varius* to Changes in Hydrostatic Pressure.

Sype, William Evans. An Histochemical Study of the Changing Patterns of Glycogen Distribution in the Estrus Cycle and Post Partum (Non-Lactation) Uterus of the Golden Hamster (*Mesocricetus auratus* Waterhouse)

Wicklund, Thomas Glen. An Histochemical Study of the Changing Patterns of Glycogen Distribution in the Uterus of the Early Pregnant and Lactating Golden Hamster (*Mesocricetus auratus* Waterhouse)

#### 1970—Masters

Hanson, Alfred Warren. The Symbolic Relationships and Morphology of *Paravortex* sp. nov. (Turbellaria, Rhabdocoelida), a Parasite of *Macoma nasuta* Conrad, 1837.

O'Rand, Michael Gene. An Ultrastructural Study of Tentacle Development in *Cordylophora lacustris*.

Polls, Irwin. Behavioral Aspects of Righting in the Asteroid Echinoderms *Henricia leviuscula* (Stimpson) and *Leptasterias aequalis* (Stimpson)

Stiffler, Daniel Francis. Cardiac and Respiratory Responses to Hypoxia in the Crab, *Cancer magister* (Dana)

Ulbricht, Richard Jules. Oxygen Consumption of Three Species of Sea Urchins at Different Temperatures.

#### 1966—Doctors

Belton, John Clair. The Deposition and Storage of Hepatic Lipids in the Frog *Ascaphus truei* (Stejneger): an Electron Microscopic, Histochemical and Chromatographic Study.

Forss, Carl Albert. The Oplophorid and Pasi-phaeid Shrimp from off the Oregon Coast.

Laban, Cornelis. A Study of Behavior in the Deer Mouse *Peromyscus maniculatus rubidus* Osgood During Its 24-Hour Cycle of Activity in a Simulated Natural Habitat.

Martin, Gordon Wyatt. A Progenetic Trematode (Lecithodendriidae) Life Cycle Involving *Rana aurora*.

Porter, Clarence Alan. The Histopathological Effects of Larval Trematodes on the Hepatopancreas of *Oxytrema siliqua* (Gould)

Ritschard, Ronald Laird. The Giant Cells in the Chorio-Allantoic Placenta of the Golden Hamster (*Mesocricetus auratus* Waterhouse)

Wilkes, Stanley Northrup. The Life History of *Nectobranchia indivisa* Fraser, 1920 (Copepoda: Lernaepodoida) a Parasite of the Starry Flounder.

#### 1967—Doctors

Darrow, Thomas Dean. Orientation and Navigation in the Rough-Skinned Newt, *Taricha granulosa*.

Fuller, Eugene George. The Comparative Histochemistry of the Decapod Antennal Gland—Esterases, Phosphatases and Glycogen.

Longo, Frank Joseph. The Fine Structure of Spermatid Differentiation in the Mussel, *Mytilus edulis*, Linn.

Monroe, James Ernest. The Comparative Histology and Histochemistry of the Digestive Tract of the Land Snails *Allogona townsendiana*, Lea (Herbivorous) and *Haplotrema vancouverense*, Lea (Carnivorous)

Morse, Howard Curtis. The Fine Structure of the Arthrobranch of the Crayfish, *Pacifastacus leniusculus* Dana, with Special Reference to Active Ion Uptake.

Smith, John Martin. The Respiratory Ecology of the Rough-Skinned Newt *Taricha granulosa* (Skilton)

Thompson, Steven Risley. The Effect of Temperature on Crossvein Formation in Crossveinless-like Strains of *Drosophila melanogaster* (Meigen)

Whitehead, Russell Albert. Time-Lapse and Electron Microscope Study of Cultured Epithelium Subjected to Calcium Depletion with EDTA and Its Subsequent Recovery.

#### 1968—Doctors

Hanson, James Charles. The Effects of Ver-sene on Dividing Sea Urchin Eggs.

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