

O. S. U.  
Theses and Dissertations  
1978-1982

Compiled by  
Evelyn Leasher

Bibliographic Series No. 20

Oregon State University Press

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Theses and Dissertations  
1978-1982

Compiled by  
Evelyn Leasher  
Reference Librarian  
Oregon State University

BIBLIOGRAPHIC SERIES NUMBER 20

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## PREFACE

We are pleased to provide another compilation of theses and dissertations prepared at Oregon State University as partial fulfillment of requirements for Masters or Doctorate degrees. This bibliography is part of a continuing series dealing with research done by students at the University. All titles listed are available and may be consulted in the William Jasper Kerr Library. Masters theses are available on interlibrary loan; doctoral dissertations may be obtained from University Microfilms, Ann Arbor, Michigan.

The bibliographic series contains a listing of all theses and dissertations accepted by the University from 1932 to date. Back issues are available from the University Press.

Preparation of this bibliography has been under the supervision of Evelyn Leasher. Robert Baker provided technical assistance in the application of computers to the publication.

The bibliography is unique in that its production involved four different computer systems. The Library uses an international cataloging system, OCLC (Dublin, Ohio), to input records to the computer via local CRT terminals. These records are accumulated quarterly on magnetic tape and sent to the Data Services Center of the Oregon State System of Higher Education (Corvallis, Oregon). The DSC pulled the thesis records from these tapes and prepared them for input to the OSU Computer Center's Cyber computer. Using Famulus, a data base management system on Cyber, the records were edited and prepared for the OSU Department of Printing's computer typesetter.

Rodney K. Waldron, Director of Libraries  
Robert S. Baker, Information Analyst

## ACKNOWLEDGMENTS

David Dowrie of the Data Services Center, Mike Drost of the OSU Computer Center, and Charles Peckham of the OSU Department of Printing, provided the technical support required to get the guide through the three machine interfaces and into the present form. We are grateful for their help and expertise.

In addition to the above, this list is a product of many hours of work by several people in the Graduate School Office and in the Library. I wish to thank them for their cooperation. I especially wish to thank Joan Eaton of the Library for her work in helping prepare the manuscript for publication.

Evelyn Leasher, Reference Librarian

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# HOW TO USE THIS GUIDE

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### *Thesis Subject Areas:*

Included in this list are the masters' theses and doctoral dissertations completed at Oregon State University between and including the years 1978-1982.

### *Not Included:*

Research papers are not included, although some university departments encourage their students to write a research paper instead of a thesis. These papers are often as worthy and well-researched as the theses, but students are not required to give the library a copy, hence the library does not maintain a list of these. If you have a title or author that you can not find listed in this booklet, but you are sure it was done within this time period, it may be a research paper. If you suspect this to be the case, it is suggested that you contact the appropriate college, school or department (not the library) for more information.

## ARRANGEMENT

Section I, the Departmental Index, is arranged alphabetically by university departments, then subdivided by type of degree and year within type (i.e. masters or doctorate). Within each type and year, the arrangement is alphabetical by author. Section II, the Author Index, is an alphabetical list of the thesis authors with the corresponding citation number(s) (i.e. the location number of the citation in the Departmental Index). You may note that some authors have 2 citation numbers which indicates they have either two masters or a masters and a doctoral thesis in this guide.

## INTER-LIBRARY LOAN

The Library's Inter-Library Loan Service lends our own institution's masters' theses to all other states, but doctoral dissertations are loaned only within the state of Oregon. Exceptions to this rule are selected universities with which we have reciprocal lending agreements for Ph. D.'s.

## PHOTO-COPY

Our policy is not to photo-copy any masters or doctorate in its entirety. University Microfilms in Ann Arbor, Michigan, provides this service for doctoral works through Dissertation Abstracts.

## OTHER GUIDES TO OSU THESES AND DISSERTATIONS

You may also wish to consult previous guides in the same bibliographic series for more information on previous years or on special subjects.

Bibliographic Series Number 6, OSU Theses & Dissertations  
1943 - 1959

Bibliographic Series Number 8, OSU Theses & Dissertations  
1960 - 1965

Bibliographic Series Number 9, OSU Theses & Dissertations  
1966 - 1970

Bibliographic Series Number 17, OSU Theses & Dissertations  
1970 - 1977

#### **Agricultural and Resource Economics—MASTERS 1978**

- 1 **Erhabor, Patrick Osaretin.** An economic analysis of resource substitution with sprinkler irrigation systems in use in Oregon's Northern Columbia River Basin counties.
- 2 **Flacco, Paul Richard.** Projected income and employment impacts of a decline in the timber resource base of a highly timber-dependent economy.
- 3 **Hanson, Kenneth Allen.** Dynamic investment and pricing decisions for municipal sewerage.
- 4 **Holst, David Lee.** The economic feasibility of soybean production in Oregon.
- 5 **Larson, Douglas M.** Estimated net economic benefits to visitors of selected Columbia River fish hatcheries.
- 6 **Martin, John Barrett.** An evaluation of the economic feasibility of pollock processing in southeast Alaska.
- 7 **McDowell, Robert M.** The economics of controlling cattle feedlot runoff.
- 8 **Rahuma, Ali Ahmed.** Application and evaluation of ridge regression to selected empirical economic models.
- 9 **Utterback, Robert L.** Motor vehicle operations of Pacific Northwest agricultural cooperatives.

#### **Agricultural and Resource Economics—MASTERS 1979**

- 10 **Buchanan, Shepard C.** The relationship between population and residential property taxes in Oregon.
- 11 **Sass, Mary Ellen.** A Monte Carlo analysis of principal components and ridge regression with application to a fisheries evaluation model.
- 12 **Savage, John F.** The fiscal response of Oregon counties to mental health grants.
- 13 **Shirack, Rosalyn Proffitt.** The impact of special use assessment on land use and income distribution.
- 14 **Valpey, John Richard.** Transferability of equities of Oregon agricultural marketing and supply cooperatives.
- 15 **Winter, John R.** An economic analysis of land prices of mountainous grazing land in eastern Oregon.

#### **Agricultural and Resource Economics—MASTERS 1980**

- 16 **Ahmed, Awadelkarim Hamid.** An econometric analysis of risk attitudes among grass seed producers in the Willamette Valley.
- 17 **Beare, Stephen Carroll.** An econometric model of the effects of feed grain prices in the feeder cattle market and breeding inventories.
- 18 **Carroll, Thomas Michael.** Tests of the RAS and modified RAS updating techniques on a regional input-output model.
- 19 **Cuthbert, Richard W.** The economic incentives facing illegal Mexican aliens in the U.S.: a case study at Hood River, Oregon.
- 20 **Doverspike, Mark Steven.** Predicting the impacts on residential property values from changes in water quality.
- 21 **McCarty, Thomas Vere.** The agronomic, economic and social effects of the availability of new weed control treatments to small corn farmers in the North Atlantic Zone of Costa Rica.
- 22 **Moe, Debra K.** Wheat acreage response in Oregon and Washington.
- 23 **Murtaugh, John Jeffrey.** The effects of federal agency payments in lieu of taxes on Oregon county expenditure patterns.
- 24 **Owen, Linda P.** Migration and economic change in timber-reliant counties: an econometric analysis.
- 25 **Spies, Paul Andrew.** Evaluation of the ownership, leasing, and residency restrictions of proposed amendments to the reclamation laws: three federal irrigation districts in Oregon.
- 26 **Whitely, Carol Elaine.** Production and marketing strategies for eastern Oregon rangeland cattle producers, 1968-1978.

#### **Agricultural and Resource Economics—MASTERS 1981**

- 27 **Bristol, Roger Dale.** Information and analysis techniques for making crop selection decisions.
- 28 **Carpenter, John Teller.** The feasibility of establishing a futures delivery point for Pacific Northwest feeder cattle.
- 29 **Chou-Yang, Bih-lian.** Estimated net economic benefits from steelhead sport fishing of selected Washington rivers.
- 30 **Giardina, Larry.** Grass seed acreage response to policies concerning field burning: Willamette Valley, Oregon.
- 31 **Knox, Kenneth W.** Evaluating the financial risk involved in farmland investment decisions.

- 32 **Lin, Biing-hwan.** Optimal expansion of a water resource system and issues of water allocation and utilization: Umatilla River Basin, Oregon.
- 33 **Lin, Tsae-Yun.** An application of transfer function and econometric procedures to employment impact analysis, Grant County, Oregon.
- 34 **Matzat, James H.** The peppermint industry: situation and outlook with emphasis on Oregon.
- 35 **Miller, Lester F.** Grant County, Oregon: impacts of changes in log flows on a timber-dependent community.
- 36 **Richardson, James Andrew.** Production relationships for the Oregon commercial fishing fleet.
- 37 **Shalloof, Faisal M.** Estimation of net economic benefits of the Oregon big game resource to hunters.
- 38 **Smith, Nancy E.** A comparison of the travel cost and contingent valuation methods of recreation valuation at Cullaby Lake County Park.
- 39 **Tay, Winnie K.** Primary & secondary irrigation benefits in small watershed projects: an evaluation of an Oregon P.L. 566 project in mid-life.
- 40 **Thompson, Mark Edward.** Estimating residential flood control benefits using implicit price equations.
- 41 **Townsend, Terry P.** An economic analysis of the white wheat marketing system between the Pacific Northwest and Japan.
- 42 **Vanderpool, Cynthia Ann.** An econometric model of Pacific Northwest feeder cattle basis.

#### **Agricultural and Resource Economics—MASTERS 1982**

- 43 **Bodvarsson, Örn Bodvar.** Three essays on the theory of information valuation and demand.
- 44 **Boyle, Kevin J.** Modifications of static input-output models to reflect sectoral change.
- 45 **Buerkin, Kurt M.** The Oregon wine industry: an economic analysis.
- 46 **Cajina, Ariel.** The ex-ante introduction of a chemical weed mulch weed control system in the Atlantic Plain of Nicaragua.
- 47 **Clement, David A.** An economic analysis of ocean freight rates for Lower Columbia River exports.
- 48 **Dickens, Mike L.** An evaluation of alternative wheat marketing strategies for Pacific Northwest soft white wheat producers.
- 49 **Eppley, Linda M.** Local economic impacts of changes in the availability of public timber.
- 50 **Wagenblast, David E.** An economic analysis of wheat import demand in South Korea with emphasis on the demand for White Wheat from the U.S.
- 51 **Walker, Kevin D.** Application of multiattribute utility analysis in determining coho salmon policy.
- 52 **Whittaker, Gerald Wayne.** Economic criteria as normative content in Oregon surface water law.
- 53 **Wood, Stephen G.** Estimating import substitution potential and multiplier effects for basic sectors in rural Oregon counties.

#### **Agricultural and Resource Economics—DOCTORS 1978**

- 54 **Dyke, Paul Thomas.** An econometric structure for cost functions with application to municipal water.
- 55 **Hussen, Ahmed M.** Economic feasibility of mechanical strawberry harvesting in Oregon: estimated private and social benefits and costs.
- 56 **Khan, Ahmad Saeed.** An economic analysis of the demand for graduate education.

#### **Agricultural and Resource Economics—DOCTORS 1979**

- 57 **Bellele, Solomon.** An economic analysis of small-holders agriculture in the central highlands of Ethiopia: a system simulation approach.
- 58 **Chong, Kee-Chai.** Resource combination and product-mix in Oregon seafood processing.
- 59 **Swartz, A. Nelson.** The Pacific Coho salmon fishery: an intra-seasonal and interregional economic analysis of the ex-vessel market.

#### **Agricultural and Resource Economics—DOCTORS 1980**

- 60 **Herrick, Samuel F.** An economic analysis of the long-run decision-making behavior of Oregon otter trawl fishermen.
- 61 **Johnson, Thomas G.** A dynamic input-output model for regional impact analysis.
- 62 **Rogers, Larry O.** The demand for buffalofish, a proxy for carp.

- 63 **Russell, Kenneth Dale.** The concept of diversification as a characteristic of farm structure.
- 64 **Sriswasdilek, Jerachone.** An economic analysis of irrigation development in Nam Pong Irrigation Project, Khon Kaen, Thailand.

#### **Agricultural and Resource Economics—DOCTORS 1981**

- 65 **Escobar, German.** Prospects for technical change and family nutrition effects in the Caqueza integrated rural development project of Colombia: an economic evaluation under risk.
- 66 **Kim, Chong S.** Projected impacts on growers, processors, and consumers from mechanical strawberry harvesting.
- 67 **O'Brien, Dennis Terrence.** Risk and the selection of alternative weed management technologies in Philippine upland rice production.
- 68 **Paez, Maria Lucia D'Apice.** An economic analysis of some factors associated with the international trade flows of frozen groundfish blocks.
- 69 **Paez, Paulo Brasil.** Analysis of the international demand for Brazil nuts.
- 70 **Rahuma, Ali Ahmed.** Some small sample properties obtained by simulation for a squared error loss estimator for ridge regression with application to an empirical economic model.
- 71 **Sorhus, Colin.** Estimated expenditures by sport anglers and net economic values of salmon and steelhead for specified fisheries in the Pacific Northwest.

#### **Agricultural and Resource Economics—DOCTORS 1982**

- 72 **Bhadra, Binayak Prasad.** Separability tests on wheat production functions in Oregon.
- 73 **Carter, Christopher Norton.** Multi-fishery activity in Oregon commercial fishing fleets: an economic analysis of short-run decision-making behavior.
- 74 **Dawson, Oliver Glenn.** An economic evaluation of yield grade standards for Canadian carcass beef.
- 75 **Hanna, Susan Steele.** A theoretical analysis of information networks in the fishery.
- 76 **Nordblom, Thomas Lee.** Simulation of cattle cycle demography: cohort analysis of recruitment and culling decisions in the national beef cow herd.
- 77 **VanKooten, Gerrit C.** The integration of efficiency and equity in public decision-making: theoretical issues and applications.
- 78 **White, William Barnes.** Valuation of recreation resources: a methodological comparison as applied to Steens Mountain, Oregon.

#### **Agricultural Economics—MASTERS 1979**

- 79 **Abraham, Gideon.** Canadian chum salmon export market study.
- 80 **Muangkoe, Marut.** Interrelationships between issues of the environment and economic growth: an economic-ecologic analysis of Tillamook County, Oregon.

#### **Agricultural Education—MASTERS 1979**

- 81 **Bellamy, Billy Clinton.** Agricultural adult education needs in Central Oregon.

#### **Agricultural Engineering—MASTERS 1978**

- 82 **Saluja, Harash V.** A model for predicting water table fluctuations in layered soils.

#### **Agricultural Engineering—MASTERS 1979**

- 83 **Licht, Louis A.** A prototype wet packed bed scrubber for controlling odor emission from a confinement livestock building.

#### **Agricultural Engineering—MASTERS 1980**

- 84 **Owre, Jane Cunningham.** Nitrate leaching as affected by artificial drains.
- 85 **Pritchard, Vernon Ross.** Direct conversion of solar radiation to mechanical power using thermostatic bimetal and linear Fresnel lenses.

#### **Agricultural Engineering—MASTERS 1981**

- 86 **Nicholson, Martin Theodore.** A slatted floor portable shelter for lambing in winter rainfall pastures.

#### **Agricultural Engineering—MASTERS 1982**

- 87 **Nuss, Gary Steven.** Crop evapotranspiration of winter wheat under deficit irrigation.

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- 88 **Beuselinck, Paul Richard.** Temperature x genotype effects for perloine, crude protein and total water soluble carbohydrate levels in tall fescue (*Festuca arundinacea*, Schreb.).
- 89 **Conway, Michael Patrick.** Temperature and moisture effects on stand establishment of seven winter wheat cultivars and selected progeny (*Triticum aestivum*, L em thell).
- 90 **Dübberrn de Souza, Francisco Humberto.** Grass seed quality in relation to time of windrowing.
- 91 **Filgueiras, Tarciso de Sousa.** Effect of variety, planting date and plant population on yield and quality of Snap Bean (*Phaseolus vulgaris* L.) seed.
- 92 **Firat, Ahmet Ertug.** Inheritance and association of earliness and grain yield in four winter x spring wheat crosses (*Triticum aestivum* L. em Thell.).
- 93 **Harrabi, Moncef Mohamed.** Estimates of genetic variance and heterosis in F<sub>1</sub> winter x spring barley crosses (*Hordeum vulgare*, L.).
- 94 **Hennigen, Jose.** Relationship of physical characteristics to performance of wheat (*Triticum aestivum* L.) seeds.
- 95 **Lhamby, Julio Cesar.** Physiological characteristics of different forage yielding tall fescue (*Festuca arundinacea* Schreb.) selections under field sward conditions.
- 96 **Mathenge, Felix Njeruh.** Effect of production methods on quality of wheat seed.
- 97 **Matos, Marlene de.** Standardization of the tyrosinase test for identification of wheat varieties.
- 98 **Reddy, Lekkala Vijayasimha.** Effect of temperature on seed dormancy and alpha-amylase activity during kernel maturation and germination in wheat (*Triticum aestivum* L.) cultivars.
- 99 **Rotta, Benigno.** Effect of seed size, seeding rate and irrigation on yield and yield components of spring wheat (*Triticum aestivum* L.).
- 100 **West, GERALYN Marie.** Foliar vs. root uptake of the herbicide Hoe 23408 in Italian ryegrass and wild oats.
- 101 **Whitesides, Ralph E.** Selective control of *Cirsium arvense* (L.) Scop. in *Mentha piperita* L. with 3,6-dichloropicolinic acid.
- 102 **Zinn, Thomas G.** The effects of tillage systems and seeding dates on grain yields of wheat (*Triticum aestivum* Vill., Host) on the Anatolian Plateau of Turkey.

#### **Agronomic Crop Science—DOCTORS 1977**

- 103 **Locatelli, Eduardo Atilio.** Tobacco rattle virus: weed hosts, diagnosis, characterization, purification, and interaction with potato virus X.

#### **Agronomic Crop Science—DOCTORS 1978**

- 104 **Vasquez, Raul Moreno.** Meiotic chromosome behavior in two tall fescue (*Festuca arundinacea* Schreb.) genotypes and their sterile hybrid.

#### **Agronomic Crop Science—DOCTORS 1979**

- 105 **Lovato, Claudio.** Nitrate reductase activity in leaves and its relationship to nitrogen yield in four spring barley (*Hordeum vulgare* L.) cultivars.

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- 106 **Ali, Elgasim Elgasim.** The effects of ultra-hydrostatic pressurization of pre-rigor muscle on characteristics of economic importance.
- 107 **Aseltine, Mark Stephen.** The effect of feeding tallow, urea and protected tallow on *in vivo* nutrient digestion in sheep.
- 108 **Champe, Karla Ann.** Digestibility of by-product feeds by sheep.
- 109 **Hoffman, Charles Chase.** Effects of intramuscular administration of selenium in dairy cattle on levels of erythrocyte glutathione peroxidase and blood selenium.
- 110 **Levine, Joel Martin.** Crossbred lamb production from Columbia and Suffolk ewes.
- 111 **O'Masta, George.** Effects of selected dietary minerals and amino acids in zinc-deficient experimental animals.
- 112 **Pangborn, Marvin Clark.** The effects of various levels of dietary protein on high producing dairy cows in early lactation.

- 113 **Pierson, Mary Louisa.** Factors affecting the toxicity of *Senecio jacobaea* to laboratory animals.
- 114 **ZoBell, Dale Richard.** The effect of monensin on efficiency and production of a brood cow herd.

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- 115 **Buckmaster, Gary Wayne.** Nutritional influences affecting *senecio* toxicity in laboratory animals.
- 116 **Daugherty, Dennis A.** The effects of urea supplementation on feather meal and hair meal utilization by ruminants.
- 117 **Dudley, Eric George.** The effects of alfalfa hay fiber and vitamin B<sub>12</sub> levels in body fluids on milk fat production in high-producing dairy cows.
- 118 **Jordan, Ellen Rae.** Fertility in the high-producing postpartum dairy cow as affected by dietary crude protein.
- 119 **LeaMaster, Brad R.** Factors influencing the utilization of alfalfa meal by rats and swine.
- 120 **Ortega-Rivas, Eligio.** Optimum stocking rate of cattle on three tropical grasses.
- 121 **Pope, William Frederick.** Embryonic and hormonal control of ovine uterine arterial constriction.
- 122 **Santos, Ariel.** The effect of different levels and sources of crude protein on the voluntary intake of low quality roughages.

#### Animal Science—MASTERS 1980

- 123 **Aderibigbe, Adeshina O.** Palatability for cattle of four varieties of ryegrass.
- 124 **Dally, Martin R.** Relationships between hemoglobin genotype and production in cross-bred ewes: I. Reproduction and lamb production : II. Wool and milk production and health related traits.
- 125 **Goeger, Douglas Eugene.** Determination of the transfer of pyrrolizidine alkaloids into goats milk by biological assay.
- 126 **Knott, Robert Edward.** Cycling and reproductive phenomena in gilts.
- 127 **Luebke, Mary Beth.** Mechanism of action of exogenous estrogen in the ovine endometrium during the mid-luteal phase of the estrous cycle.
- 128 **Meyers, Stuart Alan.** The effects of exogenous follicle stimulating hormone on serum hormone concentrations and in vitro testicular responsiveness to gonadotropins in prepubertal bulls.
- 129 **Pirelli, Gene J.** Scrotal circumference measurements as an indicator of growth in the male beef animal.
- 130 **Powley, John S.** Utilization of alfalfa meal by non-ruminant animals.
- 131 **Shqueir, Adnan Ali.** The effects of ryegrass straw and monensin on performance of feedlot lambs.
- 132 **Swick, Robert Alphonso.** Dietary factors influencing the toxicity of tansy ragwort (*Senecio jacobaea*) in animals.
- 133 **Walker, Calvin.** Reproductive and litter performance of sows mated during lactation.
- 134 **Weiss, Deborah Ellen.** Photoperiodic effects on serum glucocorticoids and fur growth in mink.

#### Animal Science—MASTERS 1981

- 135 **Gendron, Eric.** Perinatal mortality and preweaning growth of progeny of ewe lambs.
- 136 **Herrera-Saldana, Rolando E.** The effect of ammoniation treatment on the nutritive value of wheat straw for ruminants.
- 137 **Lukefahr, Steven D.** The inheritance of spermatozoan midpiece length and its relationship with traits of economic importance in cattle.
- 138 **Norman, Lindsay M.** Genetic differences in concentration of immunoglobulins M and G in serum and colostrum of cows and in serum of neonatal calves.
- 139 **Pote, Linda Marie Wayland.** Utilization of high roughage diets by rabbits.
- 140 **Throckmorton, John C.** Evaluation of meadowfoam (*Limnanthes alba*) meal as a feedstuff for rabbits, poultry and sheep.
- 141 **Turnbull, Gerald Wayne.** The effects of alfalfa hay quality on the production of a lactating dairy cow.
- 142 **Wanyama, Justin Mukami.** Comparison of high and low tannin sorghum grain with low quality roughage for feeding ruminants.

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- 143 **Alabi, Nathaniel Sigismund.** Glutathione peroxidase and selenium distribution in semen and reproductive tissues of farm animals.
- 144 **Carey, Anne C.** The effect of precipitation variation and fertilization level on the nutritive value of wheat residue.
- 145 **Lamberson, William Russell.** The effects of inbreeding in a flock of Hampshire sheep.
- 146 **Lin, Chih-kai Jimmy.** The effect of electrical current on bacteria on beef carcasses, on agar media and in suspensions.
- 147 **Rosecrans, John Gerald.** Analysis of two alternative management systems for the production of fall born beef calves in western Oregon.
- 148 **Sanchez, Jorge Ml.** Canola meal as a protein supplement in dairy rations.
- 149 **Schumann, Michael Shawn.** The effect of hot-boning and pre-rigor pressurization of boneless beef cuts on yield of trimmed retail cuts and other factors of economic importance.
- 150 **Steiner, Robert J.** Evaluation of different processing methods on the utilization of steam hydrolyzed feather meal by ruminants.
- 151 **Wooten, Donald Griffin.** Monensin and zeranol alone and in combination for growing-finishing steers and growing heifers.

#### Animal Science—DOCTORS 1978

- 152 **Jones, Steven Ryan.** The effects of aerobic and anaerobic fermentation on the nutritive value of ryegrass straw.
- 153 **Koligian, Karl Bruce.** Some aspects of the mechanism of estrogen action in the uterus of the ewe.

#### Animal Science—DOCTORS 1979

- 154 **Aseltine, Mark Stephen.** Nutrient evaluation of secondary clarifier microbial paper sludge for ruminants.
- 155 **Kansky, Ladislav Leo.** Hairlessness in the young mouse resulting from an interaction of genetic, nutritional and environmental factors.
- 156 **Kezar, Wesley W.** A physiological study of acidosis in ruminants.
- 157 **Levine, Joel Martin.** Computer simulation of beef cattle production systems in the Llanos of Columbia.
- 158 **Whittington, David Lynn.** Alternate methods of fattening steers in Eastern Oregon.

#### Animal Science—DOCTORS 1980

- 159 **Torres-Hernandez, Glafiro.** Milk production and progeny growth in crossbred sheep.

#### Animal Science—DOCTORS 1981

- 160 **Aderibigbe, Adeshina O.** Evaluation of feather and hair meals as protein supplements for ruminants.
- 161 **Ali, Elgasim Elgasim.** Meat tenderness studies: 1. Electrical stimulation-delayed chilling of beef carcasses. 2. Protein quality of pressurized meat.
- 162 **Daugherty, Dennis A.** Nutrition and management of the beef unit for production of slaughter animals on range and improved pastures in southeastern Oregon.
- 163 **Ortega-Rivas, Eligio.** Effect of different nitrogen sources on molasses-based liquid supplements for cattle.
- 164 **Tewolde, Assefaw.** Direct-maternal genetic correlations for preweaning growth in Hereford cattle.

#### Animal Science—DOCTORS 1982

- 165 **Atil, Osman Bin.** A study of feeding value and potential toxicity of pulp mill single cell protein in ruminants.
- 166 **Harris, David Joseph.** Forage utilization by rabbits.
- 167 **Jordan, Ellen Rae.** Relationship of dietary crude protein to factors in uterine secretions and plasma in high producing postpartum dairy cows.
- 168 **Pope, William Frederick.** Intrauterine migration of the porcine embryo.
- 169 **Schurg, William Alan.** Evaluation of ryegrass straw in rations for ponies.
- 170 **Shqueir, Adnan Ali.** Evaluation of liquefied fish as ruminants feed.
- 171 **Swick, Robert Alphonso.** *Senecio jacobaea*: toxicity and effects on mineral metabolism in animals.



**Atmospheric Sciences—MASTERS 1978**

- 172 **Duker, Dick C.** Synoptic influences on the evolution of a severe hailstorm environment.
- 173 **Heald, Robert Cameron.** Parameterization of the oceanic mixed layer use in general circulation models.
- 174 **Lilly, Kenneth E.** Characteristics of the subsidence inversion over the eastern North Pacific Ocean north of the 48th parallel.

**Atmospheric Sciences—MASTERS 1979**

- 175 **Reynolds, Bradley Wayne.** Experimental studies of resuspension and weathering of deposited aerosol particles.
- 176 **Vickers, Dean.** Estimates for wet and dry removals' contribution to the residence time for atmospheric pollutants in the eastern United States.
- 177 **Wilkinson, David R.** A study of flow acceleration over a coastal headland.

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- 178 **Freeman, Daniel Lee.** Meteorological aspects of geothermal energy development : a hypothetical case study.
- 179 **Smith, Bartlett Knapp.** Dynamics of a differentially-heated geophysical boundary layer.
- 180 **Wang, Jough-tai.** Energetics studies of the OSU two-level atmospheric general circulation model.

**Atmospheric Sciences—MASTERS 1981**

- 181 **Maria, J. Christopher.** Mean fronts and frontogenesis near the Asian east coast.
- 182 **Paumier, James Orrin.** Penetrative elements at the top of the atmospheric mixed layer.
- 183 **Ruscher, Paul Harold.** A numerical study of mesoscale motion in the atmospheric mixed layer.
- 184 **Sielaff, Carl Ogden.** The marine air penetration of the southern Willamette Valley and its effect upon agricultural field fires.

**Atmospheric Sciences—DOCTORS 1978**

- 185 **Park, Soon-Ung.** Influence of stratification and accelerations on boundary production of vertical motion.

**Atmospheric Sciences—DOCTORS 1982**

- 186 **Chang, Jy-tai.** Analysis of the atmospheric water vapor transport and the hydrologic cycle simulated in a global circulation model.
- 187 **Su, Chang-chun.** Analysis of the normal modes simulated by latitude-longitude grids in general circulation models.

**Biochemistry**

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- 188 **Taylor, Duncan Paul.** Neurotransmitters, cyclic nucleotides, and adenylyl cyclase in the central nervous system of *Manduca sexta*.

**Biochemistry—DOCTORS 1979**

- 189 **Tatchell, Kelly George.** Physical structure and reconstitution of chromatin core particles.

**Biochemistry—DOCTORS 1981**

- 190 **Ide, Gregory James.** In vitro transcription in the yeast: *Saccharomyces cerevisiae*.

**Biochemistry and Biophysics**

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- 191 **Engelgau, Michael Maurice.** Ti plasmid coded protein in *Agrobacterium tumefaciens*.
- 192 **Simpson, Frank Berry.** Hydrogen-stimulated CO<sub>2</sub> fixation and coordinate derepression of hydrogenase and ribulosebiphosphate carboxylase in a H<sub>2</sub>-uptake positive strain of *Rhizobium japonicum*.

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- 193 **Williams, David Edward.** Analysis of cytochrome P-450 isozymes from rat liver and studies on the mechanism of induction.
- 194 **Zsebo, Krisztina Maria.** The 2- $\mu$ m plasmid of *Saccharomyces cerevisiae*: partial characterization of a eukaryotic minichromosome.

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- 195 **Mardian, James Kenneth Walker.** Physical studies of the yeast inner histones.
- 196 **Ramberg, Donald Allen.** The effects of hexachlorophene on mitochondrial and artificial membrane systems.
- 197 **Spencer, Sylvester Goodrich.** Lactate dehydrogenase from *Hexanchus griseus*: isolation and characterization.

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- 198 **Bowman, Richard Leroy.** Interpreting the circular dichroism of cyclic dimers of amino acids.
- 199 **Corden, Jeffrey Lynn.** Nucleoprotein structure of adenovirus.
- 200 **Dzoghbeia, Victoria Pearl.** Polychlorinated biphenyls and related metabolites: mode of action on phospholipid and glyceride biosynthesis.
- 201 **Liou, Ruey Shyan.** Binding studies of rabbit muscle phosphofructokinase: I. Binding of ATP and of 1,N<sub>6</sub>-ethenoadenosinetriphosphate to phosphofructokinase. : II. Binding and activation of phosphofructokinase by F-actin.

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- 202 **Bodnar, John W.** The kinetics of adenovirus DNA replication.
- 203 **Johnson, Stephen Craig.** Trinitrophenylation of bovine muscle pyruvate kinase.
- 204 **McLean-Bowen, Colleen Ann.** A role for sterols as modulators of membrane fluidity.

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- 205 **Babson, John Robert.** Specific enzymic interactions relating to the mechanism of action on certain 2-chloroethyl nitrosoureas.
- 206 **Kingan, Timothy Gilmore.** Prothoracicotropic hormone, cyclic nucleotides, and proctolin in insect central nervous system.
- 207 **Porter, David Hamilton.** The renaturation of bovine muscle pyruvate kinase.

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- 208 **To, Richard Yue-leung.** Studies on the transforming gene of avian myeloblastosis virus.

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- 209 **Crowder, Cheryl Alison.** The ecology and reproduction of *Sophora leachiana* Peck (Fabaceae).
- 210 **Flota, James Ernest.** The identification and quantification of *Pyrenochaeta terrestris* (Hansen) Gorenz, Walker, and Larson, propagules in soil and onion roots.
- 211 **Gomez-Navarrete, Gladys.** Photoinduction of kaurene synthetase, an enzyme of the gibberellin biosynthetic pathway, during de-etiolation of pea seedlings.
- 212 **Honda, Sandra.** Preliminary biochemical evidence for an ascospore coat protein in *Saccharomyces cerevisiae*: partial characterization and timing of synthesis.
- 213 **Johnson, Earl Ray.** Development and control of benomyl-tolerant *Botrytis cinerea* strains on snap beans (*Phaseolus vulgaris*).
- 214 **Kaltwasser, Robert George.** An ecological study of the vegetation of the Bear River Migratory Bird Refuge, Box Elder County, Utah.
- 215 **Larew, Hiram Gordon.** Big bud disease of filbert: a descriptive cytological study of the affected plant tissues.
- 216 **Marquis, Robert John.** An investigation into the ecology and distribution of *Kalmiopsis leachiana* (Hend.) Rehder.
- 217 **McCrae, Roberta Ellen.** Properties of the hydrogenase system in bacteroids of soybean root nodules.
- 218 **McGraw, Anne-Cressey.** Development of vesicular-arbuscular mycorrhizae and pink root (*Pyrenochaeta terrestris*) in commercial onion fields in relation to nutrition, H, and soil fumigation.
- 219 **Zeigler, Robert S.** The vegetation dynamics of *Pinus contorta* forest, Crater Lake National Park, Oregon.

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- 220 **Edwards, Cynthia Ann.** Cytokinin-active ribonucleosides in *Phaseolus vulgaris* L. transfer ribonucleic acids.

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- 221 **Axelrood, Paige Ellen.** Ethylene production from cultures of *Cylindrocladium* and from *Cylindrocladium*-infected azalea leaves.
- 222 **Cooley, Sally Joan.** Distribution and variation of *Armillariella mellea* clones in relation to vegetative cover and severity of root rot in Ponderosa pine.
- 223 **Goodell, Jody Jellison.** Potato virus X: detection and inter-relationship with *Verticillium dahliae* and *Colletotrichum atramentarium*.
- 224 **Jasalavich, Claudia Ann.** Characterization of a bacterial agglutinin from legumes.
- 225 **Kee, Saik Chuan.** An improved method for the isolation of  $\Delta 42$ -IPP:tRNA isopentenyltransferase activity from *Saccharomyces cerevisiae*.
- 226 **Lueck, Dennis.** Ecology of *Pinus albicaulis* on Bachelor Butte, Oregon.
- 227 **McKewan, Jeanette Anne.** The biology and pathogenicity of a sheath nematode *Hemicycliophora similis* Thorne, 1955.
- 228 **Peterman, Jeffrey J.** Sulfation of fucoidin in *Fucus zygotes*: intermediates of sulfate transfer.
- 229 **Pires, Maria Joaquina Pinheiro.** Morphogenetic studies of intra-specific hybrids of *Microseris laciniata* (Hook.) Sch.-Bip.
- 230 **Seyer, Susan C.** Vegetative ecology of a montane mire, Crater Lake National Park, Oregon.
- 231 **Sumner, William T.** Grazer-periphyton interactions in laboratory streams.
- 232 **Tkacz, Borys Myroslav.** Comparison of *Phellinus weirii* root rot damage in a 60-year-old Douglas-fir (*Pseudotsuga menziesii*) stand with the damage in the preceding old-growth stand.

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- 233 **Hamm, Philip B.** Morphological variation, taxonomy, and host specificity of *Phytophthora megasperma*.
- 234 **Julian, Larry, L.** The effect of variation of some physical and chemical factors on the rate of growth of *Botryococcus braunii* (Chlorophyta, Chlorococcales).
- 235 **Mansfield, Michael Andrews.** The effects of abscisic acid on protein synthesis in mature and immature embryos of wheat.
- 236 **Reynolds, Keith Morgan.** Factors affecting inter-tree root contact and the transmission of *Phellinus weirii* in young-growth Douglas-fir.
- 237 **Seliskar, Denise Martha.** Morphological and anatomical responses of selected coastal salt marsh plants to soil moisture.

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- 238 **Alsheikh, Abdulmagid M.** Taxonomy of desert truffles: the genera *Phaeangium* and *Tirmania*.
- 239 **Cardon, Nanette Clark.** Effect of nutrient enrichment on marine benthic diatoms in Yaquina Bay, Oregon.

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- 240 **Anderson, Arthur Robert.** Taxonomy and host specificity of the genus *Agrobacterium*.
- 241 **Busch, David E.** Successional changes associated with benthic assemblages in experimental streams.
- 242 **Guevara, Juan Garcia.** The glutamine synthetases in soybean root nodules and free-living *Rhizobium japonicum*.
- 243 **Kaiss-Chapman, Richard Wilkinson.** Cytokinin production by *Agrobacterium tumefaciens*.
- 244 **McCoy, George A.** Nutritional, morphological, and physiological characteristics of *Trentepohlia* (I.U. 1227) in axenic culture on defined media.
- 245 **Miller, John M.** Phenotypic variation in diploid and tetraploid populations of *Claytonia perfoliata* (s.l.) (Portulacaceae).
- 246 **Stromberg, Erik Leslie.** The nature of *Fusarium* wilt disease resistance in tomato.
- 247 **Wickliff, Carlos.** The effects of cadmium on the nitrogen fixation system in *Alnus rubra*.
- 248 **Young, Stanford Adams.** Quantitative epidemiology of stripe rust (*Puccinia striiformis* West.) in wheat cultivars (*Triticum aestivum* Vill.) with general resistance.

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- 249 **Atzet, Thomas.** Description and classification of the forests of the upper Illinois River drainage of Southwestern Oregon.
- 250 **Daniels, Barbara Ann.** Factors affecting germination of endomycorrhizal spores.
- 251 **Fuller, Lloyd Randolph.** Infection of stressed ponderosa pines by *Armillariella mellea* from indigenous and artificial inoculum sources.
- 252 **Hemstrom, Miles Arthur.** A recent disturbance history of forest ecosystems at Mount Rainier National Park.
- 253 **Triplett, Barbara Ann.** Localization and time of synthesis of wheat germ agglutinin in developing wheat (*Triticum aestivum*, L.).

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- 254 **Carter, Kevin Richard.** Purification and properties of a ferredoxin from *Rhizobium japonicum* bacteroids.
- 255 **Gottwald, Timothy Ross.** The life history of *Anisogramma anomala* (Pk.) E. Müller (Diaporthaceae) and its pathological and epidemiological association with *Corylus avellana* L.
- 256 **Graham, James Herbert.** The role of ethylene in ectomycorrhiza formation and *Fusarium* infection of Douglas fir roots.
- 257 **Halse, Richard R.** Taxonomy of *Phacelia* section *Miltitzia* (hydrophyllaceae).
- 258 **Kollmorgen, James Frederick.** Morphology, ultrastructure and mating of sporidia of a wheat-bunt fungus, *Tilletia caries* (DC.) Tul.
- 259 **Weber, Kenneth Alan.** The identity, biological and molecular characteristics and serology of carlaviruses infectious to peas in the Pacific Northwest.

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- 260 **Danko, Stephen John.** Production and characterization of anti-fungal compounds produced by tomato plants inoculated with *Fusarium oxysporum* f. sp. *lycopersici*.
- 261 **Davis, Robert Francis.** Occurrence, transmission, and properties of strains of cucumber mosaic virus that are seed-transmitted in *Phaseolus vulgaris*.
- 262 **Kim, Sang-Gu.** Control of cytokinin autonomy in *Phaseolus lunatus* callus cultures.
- 263 **Koonce, Andrea Lavender.** Interactions between fire and dwarf mistletoe in ponderosa pine.
- 264 **Kropp, Bradley Ray.** The mycorrhizal associations of western hemlock.
- 265 **Means, Joseph Earl.** Dry coniferous forests in the Western Oregon Cascades.
- 266 **Metz, James George.** Investigation of the oxidizing side of photosystem II through mutant analysis.

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- 267 **Imper, David Kimberly.** The relation of soil characteristics to growth and distribution of *Chamaecyparis lawsoniana* and *Thuja plicata* in southwestern Oregon.
- 268 **Staver, Michael J.** Studies on inhibitory compounds produced by *Agrobacterium radiobacter* strain 84.

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- 269 **Cahill, James Michael.** Decay caused by infection of *Fomes cajanderi* Karst: in top-broken, young-growth Douglas-fir trees.
- 270 **Hamblin, Martha T.** Ribulose biphosphate carboxylase: a marker for the germination pathway in wheat embryos.
- 271 **Hennon, Paul Edward.** Incompatibility reactions and nuclear condition of three *Phellinus* species.
- 272 **McMorran, Jeffrey P.** The detection of ilarvirus (subgroup B) by enzyme-linked immunosorbent assay.
- 273 **Wilson, Mary Lovernia.** Identification and mapping of habitat types in the vicinity of Mount Tolman in eastern Washington.

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- 274 **Guppy, Geraldine Anne Allen.** Biosystematics of a Western North American polyploid complex in the genus *aster*.

- 275 **Molina, Randolph John.** Patterns of ectomycorrhizal host-fungus specificity in the Pacific Northwest.

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- 276 **Biermann, Brenda Joan.** Inoculation of container-grown plants with vesicular-arbuscular mycorrhizae.
- 277 **Cooksey, Donald Arthur.** Biological control of crown gall with bacterial and fungal antagonists.
- 278 **Davis, Michael W.** Production dynamics of sediment-associated algae in two Oregon estuaries.
- 279 **Graham, Robin Lee Lambert.** Biomass dynamics of dead Douglas-fir and western hemlock boles in mid-elevation forests of the Cascade Range.
- 280 **Halsey, Mark Evan.** Suppression of take-all [*Gaeumannomyces graminis* (Sacc.) Arx & Olivier var. *tritici* Walker] of wheat (*Triticum aestivum* L.) by banded ammonium and chloride fertilizers.
- 281 **Mitchell, Diane Lynne.** Salt marsh reestablishment following dike breaching in the Salmon River estuary, Oregon.
- 282 **Quaye, Eric Charles.** The structure and dynamics of old-growth Sitka spruce (*Picea sitchensis*) forest of the Oregon Coast Range.

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- 283 **Fisher, Harold Melvin.** A study of student characteristics, attitudes, and attrition from secretarial science programs in seven selected two-year post-secondary educational institutions in Alberta.

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- 284 **Fukui, Stanley Chikashi.** Development of a real-time digital computing facility in chemical engineering.
- 285 **Kumar, Shiv.** Models for fluid bed solids movement and elutriation.
- 286 **Olgun, Ferdi Tahir.** An executive for simulation of process dynamics and control.
- 287 **Ruthaiyanont, Anuwat.** A preliminary investigation in gas bubble formation from hypodermic needles into various depth water columns.
- 288 **Shih, Chih Ching.** Oxygen absorption in brine as a result of a plunging jet.

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- 289 **Lee, Sai Heep.** Deposition characteristics of magnesium silicate and calcium carbonate in cooling tower water.
- 290 **Zuehlsdorff, DuWayne Aaron.** Absorption of ammonia in water using a multiple stage crosscurrent packed column.

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- 291 **Cho, Choong Hoon.** Oxygen absorption into water using multiple plunging jets.
- 292 **Coates, Kenneth Edwin.** Calcium carbonate scaling characteristics of cooling tower water.
- 293 **Colakyan, Manuk.** Elutriation from fluidized beds with immersed heat transfer tubes.
- 294 **Deaton, William W.** Solids movement in a tube-filled fluidized bed.
- 295 **Gosmeyer, Clayton David.** An experimental study of heat transfer in a large particle heated fluidized bed.
- 296 **Turton, Richard.** Combustion of wood char in a transport reactor.

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- 297 **Bengali, Sadiq S.** Kinetics of cellulose pyrolysis under high heating rates.
- 298 **Dardel, Brice Marie Jean.** Corrosion and corrosion control of trawl wire rope.
- 299 **Golike, Gregory Philip.** Development and dynamic analysis of an experimental heat integrated distillation column.
- 300 **Patil, Sadanand R.** Dynamics and control of a heat integrated distillation column with side heat exchanges.
- 301 **Stephanakis, Adonis C.** Fluid dynamics in a two dimensional fluidized bed of large particles.

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- 302 **Beyer, Richard P.** Automation of a low-temperature calorimeter.
- 303 **Chang, Li-yang R.** Kinetics of wood pyrolysis with rapid heating rates.

- 304 **Chattratchart, Jarinee.** A.C. corrosion of various metals in a salt solution.

- 305 **Kaster, Suzanne Snead Perry.** Absorption of carbon dioxide in water using a multiple stage cross current packed column.

- 306 **Shieh, Yeong-chenng.** Testing of cold scaled bed modeling for fluidized bed combustors.

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- 307 **Catipovic, Nikola Milivoj.** Heat transfer to horizontal tubes in fluidized beds: experiment and theory.

- 308 **Jovanovic, Goran N.** Gas flow in fluidized beds of large particles: experiments and theory.

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- 309 **Bayan, Ghawamedin.** Mass transfer in a multiple stage cross-current packed column.

- 310 **Park, Dalkeun.** The plume model for large utility scale atmospheric fluidized bed combustors.

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- 311 **Leu, Lii-ping.** Dynamics and control of continuous crystallizers.

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- 312 **Balyeat, John Robert.** Carbene chemistry: I. Stereochemical integrity at C $\alpha$  in ketone tosylhydrazones: II. Hydrogen migration in 2-carbena-6, 6-dimethylnorbornane.

- 313 **Burns, Walter Frederick.** Slow processes in gas-solid chromatography.

- 314 **Meshgini, Mehdi.** Ring expansion 3-methoxy-6-vinyl-7,8,9,10-tetrahydro-6(5H)-benzocyclooctenol.

- 315 **Montano, Laurence Alan.** Determination of trace concentrations of cobalt via lucigenin chemiluminescence.

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- 316 **Cheung, Isabella Shiu Wing.** Indoor/outdoor atmospheric trace element abundances.

- 317 **Chick, Stephen W. K.** The use of stable activable tracer in hydrology.

- 318 **Dei Rossi, Dale Raymond.** The use of the Diels-Alder reaction in asymmetric synthesis.

- 319 **Geers, Brian Nicholas.** Addition of substituted phenylthiyl radicals to substituted  $\alpha$ -methylstyrenes.

- 320 **Jansky, Michael Thelen.** Tertiary amine complexes of cobalt (II) and nickel (II) trifluoromethanesulfonates.

- 321 **McCarthy, Kermit D.** The photochemistry of some O-(methyl-carbamoyl) oximes.

- 322 **Silkey, James R.** Electrochemical studies of liquid chlorocuprates(I).

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- 323 **Budahn, James Richard.** Geochemical study of Hawaiian basalts.

- 324 **Chase, Duane Scott.** Partial chemical speciation techniques for aquatic humic-metal complexes.

- 325 **De Briceno, Maria Betania Orduz.** Classification of stationary liquids in gas chromatography by infrared spectrophotometry.

- 326 **Nolan, Gary Scott.** Substituent effects in hydrogen abstraction by trichloromethyl radical from 10-substituted-9-methylanthracenes: a linear free energy study.

- 327 **Oda, Carl Ekio.** Continuous sample flow and mercury (II) speciation studies utilizing the cold vapor atomic absorption method for mercury determination.

- 328 **Rivera, Maria Rita Dacanay.** Variations in trace element abundances in small fragments from a single terrestrial basaltic flow: applications to 59 Apollo-17 mare basaltic fragments.

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- 329 **Ghannam, Lina M.** Stable activable tracers for environmentally significant organic molecules.

- 330 **Hallen, Richard Thomas.** Hydrogen atom abstraction from saturated cyclic ethers and sulfides.

- 331 **James, Corinne.** Exploratory studies of the mechanism of 1, 3 sigmatropic ring expansion reactions.
- 332 **Johnson, Robert David.** A reinvestigation of the molecular structure of cyclohexane-1,4-dione by electron diffraction.
- 333 **Miller, Gary J.** Acidity and basicity measurements of some silicone gas chromatographic liquid stationary phases.
- 334 **Thumneum, Pornpan.** The obstructive factor in gas chromatography.
- 335 **Ungerer, Carl Andre.** Atmospheric trace element abundances associated with slash burning.

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- 336 **Dzata, Francis K. A.** Development of stable x-ray fluorescent tracers for use in small water systems.
- 337 **Fyke, David Ray.** The adsorption of uranium ions from seawater.
- 338 **Liu, Yun-gang.** Chemical element profiles by instrumental neutron activation analysis: in, part 1, two species of wheat bunt spores, *Tilletia caries* (DC) Tul. and *Tilletia controversa* Kühn; part 2, representative sediment and basalt samples taken from a DSDP 678 m core, site 525A, Leg 74, Walvis Ridge.
- 339 **Mattoon, Terence Richard.** A three-phase argon plasma arc for analytical emission spectroscopies.
- 340 **Ndip, Edmund Moses Nso.** The photochemical transformation of oxime carbamates.
- 341 **Oertel, Christopher Paul.** Target fragmentation in the interaction of relativistic heavy ions and protons with  $^{181}\text{Ta}$ .
- 342 **Tilton, Mary Lehman.** Thermolysis of cis,cis,trans-1-phenyl-1,3,5-heptatriene.
- 343 **Zebrowski, Jerome Alan.** Experimental aspects of optical three wave mixing spectroscopy.

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- 344 **Bower, Nathan Wayne.** Theoretical and experimental factors affecting the accuracy and precision of atomic absorption measurements.
- 345 **Chambers, Scott Alexander.** Satellite structure in the gas-phase X-ray photoelectron spectra of planar unsaturated molecules.
- 346 **Dandeneau, Raymond Dale.** Fast gas chromatography.
- 347 **Fredrickson, Larry R.** Molecular intensity parameters in the solid state.
- 348 **McCann, Steven Wayne.** Magnetic properties of an analog compound for cytochrome P-450.
- 349 **Morgan, Larry G.** Vibrational and reorientational lifetimes in liquids determined by Raman spectroscopy.
- 350 **Prisbylla, Michael Paul.** The synthesis of trisporic acids.
- 351 **Ruppert, John Fredrick.** The total synthesis of (-)- acorenone B ; Approaches to the synthesis of mycosporin (P 310).
- 352 **Salin, Eric Dunbar.** Multielement atomic absorption and fluorescence spectrometry.
- 353 **Seitz, Earl Philip.** Ring expansion reactions of alkoxides and their application toward synthesis of large ring hormone models.

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- 354 **Chum, Pak-Wing.** The intramolecular cyclization of organoaluminum compounds: Reductions using low-valent titanium and zirconium complexes.
- 355 **Hilton, Charles Bruce.** The synthesis and electrocyclization of some linear and cross-conjugated hexatrienes.
- 356 **Lytz, Robert Keith.** X-ray structure studies of oriented phospholipid multilayers.
- 357 **Raghavan, Palaykotai Rajagopalan.** Approaches to the synthesis of methymycin.
- 358 **Smith, Michael James.** The heteroatom effect in intramolecular cyclizations of organoaluminum and -lithium compounds.
- 359 **Thomas, James Anthony.** Approaches to the synthesis of trichothecane sesquiterpenes.

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- 360 **Almond, Stephen W.** The aromatic Cope rearrangement: energetics and reality.
- 361 **Bass, Larry W.** Cyclization of organolithium and -zirconium compounds ; Rearrangements of selected anionic compounds in highly disassociative solvents.

- 362 **Danielson, Donald Delbert.** Gaseous electron-diffraction investigations: I. Development of high-temperature nozzles : II. Molecular structure and barrier to internal rotation of diboron tetrafluoride and diboron tetrabromide : III. Molecular structure and composition of 2,3-butanedione and oxalyl chloride at high temperature.
- 363 **Halim, Ester Hung-Quei.** Mobility of F centers in potassium chloride crystals containing divalent ions.
- 364 **Herting, Daniel L.** Reactions and stereochemistry of thiolato and sulfenato cobalt (III) complexes.
- 365 **Hwang, Wen-shu.** Tertiary phosphorus esters: their reaction with dioxygen, their complexes with cobalt(II) chloride, and the catalysis of their autooxidation by cobalt(II).
- 366 **Schiefer, Guy Alan.** The isolation and structure of leptosphaerin: a metabolite of the marine ascomycete, *Leptosphaeria oraemaris* (Linder) and A synthesis of the marine toxin, 9-isocyanopupekeanane.
- 367 **Skeean, Richard William.** Cyclization of olefinic  $\beta$ -ketoesters. An approach to the synthesis of aplystatin.
- 368 **Swenson, Karl Edward.** Vinylcarbene intermediates in some cyclic systems.

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- 369 **Bomben, Kenneth D.** Photoelectron spectroscopy of small molecules.
- 370 **Bowen, Robert Clifford.** Optical and EPR investigations of the photochemistry of KCl:OH.
- 371 **Braut, Margaret A.** Metal atom synthesis, characterization and physical properties of II-cyclooctatetraene and substituted cyclooctatetraene complexes of lanthanide metals ; Attempted synthesis of homocyclooctatetraene dianion complexes with ytterbium and uranium.
- 372 **Burton, Lester Percy Joseph.** The total synthesis of ( $\pm$ )-cinnamodial and related drimane sesquiterpenes ; Photochemical activation of the carboxyl group via N-Acyl-2-thionothiazolidines.
- 373 **Chiarello, Ronald Harry.** Exploratory studies directed toward the synthesis of large ring hormone analogs.
- 374 **Friesen, Dwayne Thomas.** Gaseous electron diffraction investigations: molecular structure, composition and barrier to internal rotation of 1,2-difluoroethane, oxalyl fluoride, and oxalyl chloride fluoride.
- 375 **Guthals, Dennis Marc.** Coherent anti-Stokes Raman spectroscopy of gases.
- 376 **Marino, Dean Frank.** Analytical chemiluminescence measurements and instrumentation.
- 377 **Miller, Jeffrey Templeton.** Synthesis of substituted cyclooctatetraene dianions ; Cycloheptadienyl complexes of the *d*- and *f*-transition elements ; Reactions of cyclohexanone with metal vapors.
- 378 **Miller, Krys J.** Synthesis and oxidation of cysteine- and penicillamine containing Fe(III) and Co(III) complexes. Analogs for the active metal sites of the cysteine and cysteamine dioxygenases.
- 379 **Pastorek, Christine.** A study of the infrared intensities of some small molecular anions.
- 380 **Pierce, John Robert.** Synthesis of large-ring analogs of estrone.
- 381 **Ryan, Mary Andrieu.** Design and development of an intensified diode array system and its application to new fluorometric reaction rate methods of analysis.
- 382 **Sheldon, Bernard Gale.** Intramolecular diels-alder cycloadditions of citraconic and mesaconic esters: Studies on the synthesis of the northwest and southeast segments of boromycin.
- 383 **Soppe-Mbang, Helene.** Molecular orbital correlation of the relative rates of chlorine atom abstraction from homo- and heteroaryl-methyl chlorides by triphenyltin radical.
- 384 **Titterington, Donald Roy.** Syntheses via thermal rearrangements: a new route to 4-cycloheptenones and approaches to medium rings.

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- 385 **Beenen, Gerhard Joseph.** Spectroscopic investigation of atomic and molecular species formed in a laser microprobe plasma using a wavelenath calibrated tunable dye laser.
- 386 **Lewis, Arnold Leroy.** Chemical and physical influences of the atmosphere upon the spatial and temporal characteristics of atomic fluorescence in laser microprobe plumes.

- 387 **Strycker, Arden R.** Approaches to the synthesis of botryococene: synthesis of the half molecule.
- 388 **Yindepit, Somrat.** Study of simultaneous codeposition of metals at solid electrodes.
- 389 **Yue, Stephen T.** Syntheses of large ring hormone analogs.

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- 390 **Askren, David Robert.** Numerical simulation of sedimentation and circulation in rectangular marina basins.
- 391 **DeBok, Donald H.** A large scale model study of placed stone breakwaters.
- 392 **Delphey, Craig Edward.** Trace metal redistribution in artificial estuarine sediments.
- 393 **Grecco, Michael G.** Dynamic response of an offshore structure to measured and simulated stochastic wave forces.
- 394 **Hatch, David Russell.** Development of structural layer coefficients for open graded asphalt emulsion mixes.
- 395 **Iranitalab, Farhad.** Development of a priority rating system for highway safety improvements.
- 396 **Kobune, Koji.** Random wave velocity field from periodic theory.
- 397 **Kornsombut, Aram.** Trade-offs between geometric design standards and safety for low volume roads.
- 398 **Steimer, Robert Bruce.** An eigenvalue wave analysis of a fixed semi-immersed rectangular structure.

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- 399 **Baliga, B. R.** Sand waves in a pristine estuary.
- 400 **English, Charles Joseph.** Determination of equilibrium partial pressure of ammonia gas above anaerobically digested sewage sludge.
- 401 **Hansen, Robert Michael.** Optimizing intake screens for Ocean Thermal Energy Conversion power plants.
- 402 **Huddleston, Ira J.** Cement stabilization of poor quality national forest bedrock materials for road construction.
- 403 **Jensen, Robert Edward.** Finite amplitude deep water waves: a comparison of theoretical and experimental kinematics and dynamics.
- 404 **Kehr, Richard H.** A procedure to identify and evaluate forest arterial and collector road networks.
- 405 **Nichols, Kevin Scott.** Computerized safety analysis technique for secondary highways.
- 406 **Pote, Jonathan W.** Modeling of ammonia losses in sprinkler application of animal wastes.

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- 407 **Bonell, John Alexander.** Influence of expansive soils on structures in the Eugene area.
- 408 **Chastain, Edward Oran.** A method for programming maintenance on paved forest roads.
- 409 **Clemmons, Gregory H.** An evaluation of coastal Oregon's marginal aggregates.
- 410 **Conlin, Mary F.** Factors affecting the adsorption of heavy metals by activated sludge bacteria.
- 411 **Copeland, Jane Ann.** Fabrics in subdrains: mechanisms of filtration and the measurement of permeability.
- 412 **Haq, Asif Jinnah.** The evaluation and selection of highway safety improvements for local jurisdictions.
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- 414 **Shrestha, Ramesh Lal.** Least squares adjustment computer programs for horizontal and vertical positions.

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- 415 **Chang, Chen.** Evaluation of selected marginal aggregates stabilized with cement.
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- 417 **Grismer, Mark Edward.** Evaluating dairy waste management systems' influence on fecal coliform concentration in runoff.
- 418 **Huang, Min-chih.** Stability of pipelines under shoaling finite amplitude waves.

- 419 **Whitcomb, William George.** Evaluation of a unified design for asphalt recycling by means of dynamic and fatigue testing.

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- 420 **Alto, Jalmer V.** Engineering properties of Oregon and Washington coast range soils.
- 421 **Berg, Ryan Robert.** Evaluation of finite element techniques for soil reinforcement applications.
- 422 **Filz, George.** Engineering properties of Southeast Alaskan forest soils.

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- 423 **Heggen, Richard J.** Input/output energy analysis of regional water pollution control.
- 424 **Maitland, James Keith.** Behavior of cellular bulkheads in deep sands.

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- 425 **Chen, Min-Chu.** Nonlinear diffraction theory by an eigenfunction expansion of the Green's function.

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- 426 **Kane, Donald A.** Bacterial toxicity and metabolism of three hydrazine fuels.
- 427 **Lin, Cheng-wen.** Fluid forces on smooth and rough circular cylinders.
- 428 **Oakley, Stewart M.** The geochemical partitioning and bioavailability of trace metals in marine sediments.
- 429 **Thrall, F. G.** Geotechnical significance of poorly crystalline soils derived from volcanic ash.

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- 430 **Ahn, Gil Soo.** Digital simulation of multi-dimensional random processes and its applications.
- 431 **Davies-Colley, Robert James.** Estuarine sediment controls on trace metal distributions.
- 432 **Lo, Alain.** Nonlinear dynamic analysis of cable and membrane structures.
- 433 **McDougal, William George.** Ocean wave-soil-geotextile interaction.
- 434 **Swanson, Gregory Robert.** The effect of dissolved oxygen concentration on the activated sludge process.

#### Clothing, Textiles, and Related Arts—MASTERS 1978

- 435 **Davis, Barbara Ann.** Analysis of the fabric salespersons' answers to specific consumer questions.
- 436 **Gertenrich, Caryl.** The Thomas Kay Woolen Mill in Salem, Oregon, 1900-1959.
- 437 **Kim, Minja.** Fashion leadership as related to attitudes toward change and socioeconomic level among Korean college women.
- 438 **Rupe, Carol Elaine.** Furniture utilization in apartment living.

#### Clothing, Textiles, and Related Arts—MASTERS 1979

- 439 **Altseimer-Tilson, Wendy Victoria.** Wasco and Warm Springs Indian clothing for six periods between 1805 and 1976.
- 440 **Cross, Charlotte Dianne Weaver.** Women's clothing practices for specific occasions at age 65 or older as compared with recall of their practices in their 40's.
- 441 **Foster, Shirley Ann Girod.** Analysis of factors associated with success of graduates of Clothing, Textiles, and Related Arts in obtaining first positions.
- 442 **Gallaher, Helen Adele.** Factors associated with use of care labels by home sewers.
- 443 **Laughlin, Mildred Ruth.** Perceived attractiveness and perceived support of the feminist movement.
- 444 **McCauley, Lynda Dianne.** Consumers' attitude toward metric conversion for clothing sizes related to selected variables.

#### Clothing, Textiles, and Related Arts—MASTERS 1980

- 445 **Deforge, Rose Diane.** Classifying and cataloguing system and procedure for costume, textile, and slide collections.
- 446 **Otness, Sharol Lind.** The Tlingit button blanket.

#### Clothing, Textiles, and Related Arts—MASTERS 1981

- 447 **Anderson, Constance Marie.** Development and analysis of the CT 225 construction diagnostic and summative tests at Oregon State University.

- 448 **Bhadra, Chandra Kala.** Use of time for physical and non-physical care of family members: an analysis in two-parent, two-child Oregon households.
- 449 **Leber, Delores Ann.** Diffusion of information about clothing to adults with orthopedic limitations.
- 450 **Leisinger, Sherrie Hawkins.** The relationship between preferences for clothing fabrics and home furnishing fabrics in color and design.

#### Clothing, Textiles, and Related Arts—MASTERS 1982

- 451 **Klein, Carol Ann.** Preplanning used in acquisition of children's clothing by women who patronize a free clothing distribution center.
- 452 **May, Janet Katy Hatch.** Clothing practices of Oregon 4-H youth: purchase, daily selection, and care.
- 453 **Paeth, Linda Kirk.** Body awareness as related to clothing interest of college men and women.
- 454 **Richardson, Susan Ogawa.** Consumers of used clothing.

#### College Student Services Administration—DOCTORS 1982

- 455 **Jerome, Jerry Blair.** A predictive model for identifying the highly anxious freshman.

#### Computer Science

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Electrical and Computer Engineering

#### Computer Science—MASTERS 1978

- 456 **DeCurtins, Jeffrey Lee.** A comparison of methods for finding Hamiltonian circuits in graphs.
- 457 **Rood, Andrew Lloyd.** MARLA: a chess playing program.

#### Computer Science—MASTERS 1979

- 458 **Fajuyigbe, Oladele.** The shortest strings in a context-free language.
- 459 **Obi, Gabriel Michael.** Computers and planning: a study of the computer simulation methodology for land use planning in Bendel State, Nigeria.
- 460 **Oman, Paul Wilson.** Personalized information management systems with tutorial capabilities.

#### Computer Science—MASTERS 1980

- 461 **McAlister, Richard Earl.** Knots: a measure of program complexity.
- 462 **Weems, Charles Chilton.** An experimental string processing extension to Pascal.

#### Computer Science—MASTERS 1981

- 463 **Starr, Robert W.** A multi-tour heuristic for the traveling salesman problem.

#### Computer Science—MASTERS 1982

- 464 **Cunningham, Robert Stephen.** On asymmetric error-correcting codes.
- 465 **Giangrande, Ernest.** Augmenting self-study materials with micro-computer-based lessons: a case study.

#### Computer Science—DOCTORS 1978

- 466 **Ayromloo, Shahram Shawn.** PEESHTAZ: the interactive computer programming system in Farsi.
- 467 **Wang, Patrick Shen-pei.** On sequential/parallel matrix array languages.

#### Computer Science—DOCTORS 1979

- 468 **Levine, Barry Arthur.** The automated inference of tree system.

#### Computer Science—DOCTORS 1982

- 469 **Gazaly, Mohammed.** Specification of parallel processing using production systems.
- 470 **Holt, John Douglas.** Analysis of program control structure and data flow—with applications for program complexity and data flow machines.

#### Counseling

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Counseling and Guidance

#### Counseling—DOCTORS 1982

- 471 **Cherry, Richard Eugene.** Personal and national values: a multi-national comparison of values within the person-centered community.
- 472 **Coles, John Michael.** The effects of a career class with a T-group emphasis on the level of vocational self-concept crystallization and self-esteem among selected university freshmen.
- 473 **Lynagh, Ian Lawrence.** Influence, techniques, and therapeutic change: a study of the relative efficacy of the common components in psychotherapy.

#### Counseling and Guidance—DOCTORS 1978

- 474 **Brown, Brian Hale.** An investigation of qualities predictive of future counselor effectiveness.
- 475 **Parker, Carl Edward.** An investigation of the relationship between Christian religious ideology and identity achievement in selected university students.

#### Counseling and Guidance—DOCTORS 1979

- 476 **Briscoe-Kleven, Judith.** Sex role and self-concept in young children.
- 477 **Musco, Richard Alphonse.** The effects of counselor-induced conditions of present-centeredness on self-actualization in college students.
- 478 **Stetson, Leo Dean.** An assessment of the attitudes and opinions of administrators, content faculty, developmental faculty, and students concerning the developmental education needs of community college students.

#### Counseling and Guidance—DOCTORS 1980

- 479 **Tomine, Satsuki Ina.** Measuring cultural competence in counselor-trainees: the development of an assessment process.

#### Crop Science

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Agronomic Crop Science

#### Crop Science—MASTERS 1979

- 480 **Deffinbaugh, Daniel D.** Estimators of seed yield and its components in a plant introduction nursery of tall fescue (*Festuca arundinacea* Schreb.).
- 481 **Downes, Patricia Marion.** Glutamine synthetase and  $\alpha$ -Amylase activity in germinating wheat under water stress.
- 482 **Eberlein, Charlotte Vawter.** Sugarbeet response to mechanical and chemical manipulation of the shoot apical meristem.
- 483 **Estes, James Patrick.** Water injection into the seed zone as an aid to emergence of dryland cereals.
- 484 **Gingrich, Gale Allen.** Effect of broadleaf weeds on winter wheat yields.
- 485 **Muren, Roger Craig.** A study of in vitro metabolic changes in germinating Douglas fir pollen.
- 486 **Ozdilek, Engin.** Influence of lime on Italian ryegrass control in winter wheat with five herbicides.
- 487 **Russelle, Michael P.** Soil moisture and temperature relationships under fallow in eastern Oregon.
- 488 **Stebinger, Edward.** Influence of fonofos insecticide on EPTC injury to corn (*Zea mays*).

#### Crop Science—MASTERS 1980

- 489 **Ben Ali, Mohamed Nouredine.** Yield and quality of cereals for winter silage production.
- 490 **Brajcich, Pedro.** Estimates of heterosis for five agronomic traits in selected winter x spring and winter x winter wheat crosses (*Triticum aestivum* L. em Thell).
- 491 **Cohen, Cynthia Joy.** CER and leaf characteristics of four tall fescue (*Festuca arundinacea* Schreb.) selections differing in forage yield.
- 492 **Cook, Ronald Lawrence.** Effect of lot size on lot uniformity in *Lolium* spp. seed.
- 493 **Haines, Kenneth.** The effect of methods and dates of planting on establishment, growth and yield potential of *Papaver bracteatum* Lindl.
- 494 **Lee, Wha-gi.** Amylolytic enzymes in wheat seeds.
- 495 **Oakley, Stephen Roland.** Estimates of heterosis in winter/winter, winter/spring, and spring/spring crosses of barley (*Hordeum vulgare* L.).

- 496 **Schumaker, Karen Sue.** Evaluation of four quality factors in a selected winter x spring wheat cross (*Triticum aestivum* Vill., Host).
- 497 **Seddigh, Majid.** The effect of harvest date and pre-storage drying methods on capsule thebaine yield, seed oil yield, and seed germination of two accessions of *Papaver bracteatum* Lindl.

#### Crop Science—MASTERS 1981

- 498 **Altman, David Wayne.** Effect of late foliar applications of urea on protein, hardness, and yield of winter wheat cultivars (*Triticum aestivum* L.).
- 499 **Boulger, Mary Caroline.** Influence of phosphorous and lime application on root growth and grain yield of two winter wheat cultivars (*Triticum Aestivum*, L em thell).
- 500 **Coleman, Quentin Charles.** Degradation of the herbicide EPTC in three Willamette Valley soils.
- 501 **Ekse, Ali Osman.** Chemically induced male sterility and natural out-crossing in selected wheat cultivars (*Triticum aestivum* L. em Thell).
- 502 **Gangi, Ali Salih.** Floral induction and reproductive development in selected perennial ryegrass cultivars.
- 503 **Gomez-Pando, Luz.** Influence of different nitrogen and moisture levels on the expression of grain yield and protein content in selected wheat (*Triticum aestivum*, L. em Thell) and barley (*Hordeum vulgare*, L. em Lam.) cultivars.
- 504 **Hostetter, Mary.** Dormancy of Kentucky bluegrass (*POA pratensis* L.) seed: the effect of germination environment, hormone applications, and hulling on seed germination.
- 505 **McAuliffe, David.** Effect of a pre-irrigation period on the activity of ethofumesate applied to dry soil.
- 506 **Min, Hwang Kee.** Association between length of grain filling period and grain yield in two wheat populations (*Triticum aestivum* L. em Thell.).
- 507 **Powers Evans, Claudia L.** Integrated control of tansy ragwort (*Senecio jacobaea* L.).
- 508 **Rizzio, Rihoh.** Temperature effects on growth and nutrient concentration in tall fescue (*Festuca arundinacea*, Schreb.) selections differing in forage yield.
- 509 **Senel, Atila Huseyin.** Nitrate-nitrogen accumulation in the surface soil during the fallow period under different precipitation levels and tillage systems.
- 510 **Turner, J. Kevin.** Growth and reproductive development in selected cultivars of Kentucky bluegrass given different durations of exposure to floral inductive conditions.
- 511 **Yahyaoui, Amor.** Effects of three herbicides on yields of five cultivars of winter wheat (*Triticum aestivum* L. em Thell).
- 512 **Young, William C.** Grazing duration effects on seed yield of annual ryegrass (*Lolium multiflorum* L.).

#### Crop Science—MASTERS 1982

- 513 **Choi, Byung Han.** Time and duration of growth stages and subsequent grain yield in selected wheat cultivars (*Triticum aestivum* L. em Thell).
- 514 **Flores, Maurilio.** Response of *Marah oreganus* to herbicides.
- 515 **Manurung, Sabam Oloan.** Growth and forage quality of tall fescue (*Festuca arundinacea* schreb.) and perennial ryegrass (*Lolium perenne* L.) as affected by mefluidide.
- 516 **Mead, Richard M.** The influence of various levels of nitrogen and potassium fertilizer on yield and performance of seed potatoes (*Solanum tuberosum*, L.).
- 517 **Mork, Colleen C.** An evaluation of field methods of disease assessment in wheat (*Triticum aestivum*) for stripe rust (*Puccinia striiformis*).
- 518 **Salazar, Luis Carlos.** Effect of glyphosate when applied to grass and legume seeds or preemergence to bentgrass (*Agrostis tenuis* Sibth.).
- 519 **Zeghida, Ali.** Factors influencing metribuzin use in strip-planted wheat.

#### Crop Science—DOCTORS 1979

- 520 **Assuncao, Marcos Vinicius.** Effect of moisture stress on yield and quality of winter wheat seed.
- 521 **Camargo, Carlos Eduardo de Oliveira.** Heritability estimates and associations of different height levels with aluminum toxicity and grain yield in wheat.

- 522 **Chase, Richard Lyle.** Control of purple nutsedge (*Cyperus rotundus* L.) with glyphosate.
- 523 **Rolston, M. Philip.** Control of volunteer legumes during establishment of legume seed crops with activated carbon bands and non-selective herbicides.
- 524 **Thill, Donald Cecil.** The influence of certain environmental and edaphic factors on germination and emergence of *Bromus tectorum* L.
- 525 **West, Lynn Douglas.** Factors influencing barnyardgrass (*Echinochloa crus-galli*) control with diclofop.
- 526 **Whitesides, Ralph E.** Field bindweed: a growth stage indexing system and its relation to control with glyphosate.

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- 527 **Alexander, William Larry.** A study of methods of parental evaluation using testers to predict subsequent progeny performance in winter wheat (*Triticum aestivum* L.).
- 528 **Beuselinck, Paul Richard.** Ovule characteristics of two tall fescue (*Festuca arundinacea* Schreb.) genotypes and their sterile hybrid.
- 529 **Ibrahim, Abuelhassan Salih.** Interrelationships of tall fescue seed yield characteristics in selfed and open-pollinated progeny and their parents.
- 530 **Petpisit, Vichien.** Progeny tests for predicting grain yield and selected agronomic traits in single, three-way, and double crosses in wheat (*Triticum aestivum* L. em Thell.).
- 531 **Sader, Rubens.** Effect of N and P fertilizers on growth, nitrate reductase activity, seed production and seed quality of snap bean (*Phaseolus vulgaris* L.).
- 532 **Sears, Rollin George.** Identification, inheritance and association of different dwarfing sources and gibberellic acid insensitivity in barley (*Hordeum vulgare* L.).
- 533 **Soh, Aik-chin.** Genetic variation and interrelationships of acid detergent fiber, neutral detergent fiber, hemicellulose, crude protein and in vitro dry matter digestibility in tall fescue (*Festuca arundinacea* Schreb.).
- 534 **Valencia-Villarreal, Jose Antonio.** Competitive effect for grain yield of four cultivars in pure and mixed populations in wheat (*Triticum aestivum* Vill., Host).

#### Crop Science—DOCTORS 1981

- 535 **Brajcich, Pedro.** Nature of inheritance, genotype-environment interaction and association of selected agronomic characters in crosses of winter X spring wheats (*triticum aestivum* L. em Thell).
- 536 **Cuevas-Pérez, Federico E.** Inheritance and associations of six agronomic traits and stem-base carbohydrate concentration on ratooning ability in rice (*Oryza sativa*, L.).
- 537 **Glenn, David Michael.** The effect of precipitation variation on soil moisture, soil nitrogen, nitrogen response and winter wheat yields in eastern Oregon.
- 538 **Mareck, James.** Methods of evaluation, effects of intermating and results of one cycle of S<sup>1</sup> family recurrent selection in barley.
- 539 **Ortiz Ferrara, Guillermo.** A comparison of four methods of selection for the improvement of grain yield in winter by spring wheat crosses (*Triticum aestivum*, L. em Thell).

#### Crop Science—DOCTORS 1982

- 540 **Dewey, Steven A.** Manipulation of assimilate transport patterns as a method of studying glyphosate translocation in tall morning-glory [*Ipomoea purpurea* (L.) Roth].
- 541 **Panchaban, Santibhab.** Effect of organic residue and nitrogen levels on growth of spring wheat and ryegrass.
- 542 **Steiner, Jeffrey John.** Effect of sheep grazing on subterranean clover (*Trifolium subterraneum* L.) seed production.

#### Education

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#### Education—MASTERS 1978

- 543 **Buckovic, Nancy Jo.** Identification of realistic learning activities for attaining FHA/HERO goals in home economics classrooms.
- 544 **Gottfried, Corbett Stanley.** Preferred criteria for determining independent student status for financial aid purposes.

- 545 **Kauffman, Leonard Alvin.** An electromyographic approach to motor unit activity during sustained isometric contractions.
- 546 **Lewis, Yvonne Pelletier.** Male attitude toward equality for women as a correlate of self-concept.
- 547 **Van Winkle, Christine Ann.** Effectiveness of three methods of expanding sex-role perceptions to a more androgynous state.

#### Education—MASTERS 1979

- 548 **Bowman, Ruth Ann.** Effect of peer group presence on selected psychomotor measurements with educable mentally retarded children.
- 549 **Dernbach, Arthur Robert.** Initial physical fitness evaluation of Salem Fire Department personnel.
- 550 **Pavey, Laurie.** Nutritional knowledge and three-day dietary survey of sixty university athletes and non-athletes.
- 551 **Zumwalt, Evelyn Jean.** Cinematographic analysis of technique in the women's 100 meter hurdles.

#### Education—MASTERS 1980

- 552 **Hammer, Donalyn Louise.** Physiques of female competitive rowers.
- 553 **Ponzetti, James Joseph.** The interrelationships between loneliness, locus of control, and academic achievement in selected college students at Oregon State University.
- 554 **Smith, Ella Jean.** Diurnal variations of body temperature and reaction time accompanying early morning and evening aerobic routines.

#### Education—MASTERS 1981

- 555 **Chai, Sharon Pao-chu.** Combinations of block angles and lateral block spacings on sprint start time.
- 556 **Gharai, Foroozandeh.** The development of a Likert-type scale measuring attitudes toward the handicapped.
- 557 **Novak, Charles Willard.** External and internal work of a T-6 paraplegic propelling a wheelchair and arm cranking a cycle ergometer: case study.
- 558 **Tomasovic, Robert Scott.** Dehydration and rehydration in collegiate wrestlers.
- 559 **Wegner, Julie A.** Power weight training applied to college females.

#### Education—MASTERS 1982

- 560 **Goulard, Frank.** QT interval changes during monitored exertion following varied carbohydrate feedings and vitamin B-6 supplementation in humans.
- 561 **Siemann, Art W.** Work load and S-T segment changes during monitored bicycle ergometer exertion following varied carbohydrate feedings and vitamin B-6 supplementation.

#### Education—DOCTORS 1978

- 562 **Arritola, Pascual Pedro.** Coaching preparation consistent with recommendations from active coaches.
- 563 **Boarman, Alice Marie.** The effect of folk dancing upon reaction time and movement time of senior citizens.
- 564 **Brooks, Timothy F.** A comparison of the Oregon State University environment as perceived by two student age groups, faculty, and student services staff.
- 565 **Brown, Carol Madeline.** The development of an instrument for identifying competencies of nurse-supervisors in small general hospitals.
- 566 **Griggs, Lawrence Floyd.** The effect of a special living-learning residence hall experience on the self concept of entering educational opportunity program students at Oregon State University.
- 567 **Guzman, Juan.** Community conflict: a case study of the implementation of a bilingual education program.
- 568 **Hasle, Frederick G.** An assessment of differences in morale between and among selected union and non-union community college faculty.
- 569 **Kirsch, Theodore W.** A comparative study of concerns and expectations of coordinators and employers for selected cooperative work experience programs in Oregon community colleges.
- 570 **Metcalf, Robert Lee.** The functions of vocational, occupational, and career counseling and guidance as perceived by Washington State Community College deans of students, vocational directors, and counselors.

- 571 **Morray, Marjorie Kuh.** Phonological contrasts and word-decoding skills of the reader of English as a second language.
- 572 **Robinson, Gail Patricia.** The acquisition of values: a theoretical model.
- 573 **Vaughn, Arthur Clarence.** A study of the contrast between computer assisted instruction and the traditional teacher/learner method of instruction in basic musicianship.
- 574 **Visger, Dale Bennett.** A cooperative work experience approach to in-service staff development for selected community colleges.

#### Education—DOCTORS 1979

- 575 **Arnold, Richard Jennings.** A comparison of the attitudes of three groups toward released time for religious instruction in Oregon.
- 576 **Carl, Frank.** A study of the interaction between learner characteristics, two methods of CPR instruction, and affects on retention of CPR competencies.
- 577 **Franks, Robert Grover.** Postsecondary student consumerism: a national Delphi forecast of developments and articulation of policy options.
- 578 **Gallagher, Patricia Reed.** The context in which student teaching occurs and its effect on student teacher performance.
- 579 **Huff, Wynelle Jean.** The effect of a selected nursing curriculum upon the critical thinking ability of baccalaureate nursing students.
- 580 **Jones, Lenoa Kent.** The effect of a management course on leadership knowledge and behavior of baccalaureate nursing students.
- 581 **Justice, Patricia Kallberg.** The staff development needs of full-time instructional faculty as reported by professional staff members in Oregon community colleges.
- 582 **Logan, Charles Allen.** An inquiry into the bases and effects of teacher militancy through an analysis of collectively bargained contracts in Oregon's largest school districts.
- 583 **Matthews, Lawrence Joseph.** Comparisons of self-actualization among three groups of college women.
- 584 **Neuman, Esther L.** Horizontal mobility, professional enthusiasm, and personal characteristics of public school teachers K-12 in rural and small urban schools of the Mid/South-Willamette Valley of Oregon.
- 585 **Noonan, Arthur Barry.** Development of a model for context evaluation of community college competency-based curricula.
- 586 **Plagens, Donald John.** A pilot study concerning the measurement of the typewriter composition skills of selected postsecondary students.
- 587 **Poling, Peggy Jo.** An analysis of factors related to course drops by undergraduate students at Oregon State University.
- 588 **Price, William Francis.** Personal value orientations and selected demographic variables as predictors of retirement preparation among preretirees.
- 589 **Ross, Dorian Mordecai Roseman.** The psychological affect of modern and traditional schools on students' self-concepts, self-adjustment and social adjustment.
- 590 **Saporito, Fred Joseph.** The effect of human relations-sensitivity training on the self concept of low income high school students.
- 591 **Stamps, Margaret Frances.** An analysis of the acceptance and the conceptual clustering of personal finance competencies as identified by the business community and personal finance teachers.
- 592 **Sweeney, James E.** Professional competencies for church ministry as perceived by seminary faculties, church lay leaders, and seminary seniors.
- 593 **Walker, Thomas Vaughn.** Aggression in sport: a study of fouling in university basketball.
- 594 **Yates, Douglas Page.** Older and younger students, full-time and part-time: a comparison of their perceptions of the campus environment at Oregon College of Education.

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- 595 **Barnett, Werner Joseph.** The effects of teacher gender on mathematics achievement of first-grade students.
- 596 **Dudley, David Hugh.** An analysis of vocational exploratory behavior as a function of internal vs. external control and selected structural variables.
- 597 **Emerson, Roger W.** Changes in depression and self-esteem of spouses of stroke patients with aphasia as a result of group counseling.



- 598 **Erickson, John William.** Guide groups: an evaluation of educational innovation in a secondary school.
- 599 **Gaeta, Michael J.** The identification of medicine education learning outcomes for ambulatory, noninstitutionalized older adults.
- 600 **Gelowitz, Arnold Charles.** A proposal for professional preparation in college student personnel work for western Canada.
- 601 **Hazen, Logan Rhodes.** Alcohol use, knowledge and attitudes among freshman women.
- 602 **Hofmann, Carl.** A study of the evaluation practices and procedures for part-time faculty in the California community colleges.
- 603 **Jackson, Kent Lee.** The utilization of multiple dimensions in quality judgments of master's degree programs.
- 604 **Kluckman, Delores.** Traditional and nontraditional career role vocational agriculture teacher perception of career choice, work satisfaction, and career plans.
- 605 **Kroeger, Linda.** An assessment of the safety attitudes of college students following completion of a first aid course.
- 606 **Passwater, Glenn Darrell.** The development of an instrument to assess Oregon high school students' nutrition knowledge.
- 607 **Prakhonghit, Taworn.** Effects of rest pause interruption upon learning and attitudes with instruction via self-instruction with multi-media programs.
- 608 **Pratt, Le Etta.** An investigation of college student attitude change toward teaching through participation in a school health fair.
- 609 **Reddington, Kenneth George.** Self-esteem, locus of control, and perceived defending behavior in the classroom in relation to grades of junior high students in Kochi, Japan.
- 610 **Rini, Victor Matthew.** A comparison of the educational attitudes of eighth-grade students of Portland, Oregon: urban black and urban white.
- 611 **Welander, Gary Brent.** A descriptive study of the relationships between classroom verbal interaction and students' school-related attitudes.

#### Education—DOCTORS 1981

- 612 **Brown, Harold Clifford.** A history of the department of defense dependents schools, Okinawa, Japan, 1946-1978.
- 613 **Haugen, Roger Earl.** The relationship between student ratings and selected characteristics of university transfer instructors in the community college.
- 614 **Haynes, Judith Lee.** Self-assessment as a function of entering skills analysis in Adult Basic Education.
- 615 **Henderson, Laura B.** The influence of gender and structure of intellect ability factors on teacher perception of gifted children.
- 616 **Hogan, James P.** The achievement effect of behavioral objectives in introductory psychology.
- 617 **Jones, Sheridan Davis.** A model for identifying evaluation procedures that have a positive influence on teacher attitude.
- 618 **Judson, Cheryl Jean.** Managerial roles as perceived by chief student affairs administrators in higher education: an exploratory study.
- 619 **Lewis, Linda H.** A study of the sex-role attitudes and marital adjustment of female doctoral candidates and their spouses during the course of doctoral study.
- 620 **McCreight, Keith Russell.** A longitudinal study of Basic Educational Opportunity Grant recipients at Oregon State University, 1975-1980.
- 621 **McNabb, David Earl.** Experimental methodology for segmenting the postsecondary education market.
- 622 **Mitarai, Shoji.** Transcultural education and Japanese-American relations.
- 623 **Namkung, Dalwha.** A study of the purpose in life among Korean high school seniors.
- 624 **Offiong, Edem Daniel.** Analysis of the state of development of adult education in Nigeria: suggestions for future action.
- 625 **Price, Sandra.** Radiographic assessments of bone density in cardiac-prone adults participating in a 12-month physical conditioning program.
- 626 **Sitthiphong, Bularat Suvannabriksha.** A comparative study of work values between selected tenth-grade Thai girls in Bangkok and Chiangmai, Thailand.

- 627 **Smith, Margaret Mary.** Identifying knowledge and attitudes toward sexual expression among selected 65 to 74 year olds, utilizing a structured interview.
- 628 **Solomon, A. Leiomalama.** Cross-cultural conflicts between public education and traditional Hawaiian values.
- 629 **Vandehey, Linda Tamura.** Early teacher attrition background data and professional concerns of teachers who leave the profession.
- 630 **West, Ellen Louise.** Productivity analysis of adult basic education programs: an analytic model.
- 631 **Whipple, Edward George.** Sex-role identity differences as a function of place of residence of male college students.

#### Education—DOCTORS 1982

- 632 **Behroozian, Shervin.** Minimal competencies needed for elementary/secondary ESL and bilingual teachers in Oregon and Washington.
- 633 **Beyer, Elmira K.** Wholistic primary education: investigation and development of an integrated curriculum model.
- 634 **Christopherson-Choudhry, Matiny Lee.** Intercultural self concept and coping behavior: Asian and American Caucasian graduate students.
- 635 **Clayton, Diane Elthea.** A motivational typology of reentry women.
- 636 **Dexter, Ronald L.** An investigation of the causes of absenteeism in an inner-city school.
- 637 **Evans, Evan L.** An assessment of electrophysiological and auditory processing instruments in relation to learning disabilities.
- 638 **Finn, Beatrice.** A comparison of the effect of instructor-designed reading materials and the effect of programmed reading materials on selected reading skills and academic achievement of intercollegiate freshman student athletes.
- 639 **Higgins, John W.** Counseling and guidance needs as perceived by community college bound students and community college counselors and administrators.
- 640 **MacFarlane, William Henry.** A study of the mathematical competence requirements for graduation among Oregon's A-AA-AAA senior high schools.
- 641 **Nichols, Stephen P.** Development of an attitude scale for personal health.
- 642 **Orr, Evelyn Bonnie Fairburn.** A study of the relationship between a cloze and a word opposite reading vocabulary placement instrument designed for adults.
- 643 **Parker, Mickey Ann.** The development and authentication of the Parker Unified Motivational and Learning Theories Model.
- 644 **Peterson, Erik Alfrid.** A study of the relationship of academic achievement in accounting courses to the readability of required textbooks and the reading ability of two-year accounting students.
- 645 **Robertson, Barbara J.** The development of an adaptation model for emergency departments in urban and suburban health maintenance organizations.
- 646 **Schmidt, Sharon.** The relationship between hearing impairment and motor proficiency in selected school age children.
- 647 **Searcy, Julie A. Davies.** An analysis of the source, nature, and resolution of grievance filings in Oregon community colleges, school years 1979-80 and 1980-81.
- 648 **Smith, David Adelbert.** The identification of long-term care administrator competencies.
- 649 **Stark, Merritt William.** A Group Informal Reading Inventory: an instrument for the assessment of ESL students' reading performance.
- 650 **Stephen, David Bruce.** Toward a taxonomy of contraceptive behaviors and attitudes of single college men.
- 651 **Zieminski, Robert S.** Coping behavior employed by Oregon school administrators in dealing with occupational stress.

#### Electrical and Computer Engineering—MASTERS 1978

- 652 **Kraemer, Thomas Fredrick.** A study of time series interpolation and decimation with signal processing applications.
- 653 **Lawrence, Karen.** Compartmental analysis of the immune system.

#### Electrical and Computer Engineering—MASTERS 1979

- 654 **Emery, Timothy R.** Nonsymmetrical coupled microstrip lines for applications as ideal directional couplers.

- 655 **Squire, David Charles.** A simulation study of a heuristic technique for approximating availability percentiles for cascaded independent systems.

#### Electrical and Computer Engineering—MASTERS 1980

- 656 **Lin, Pei-chen.** Multiple-output combinational network minimization.  
657 **Shoji, Fumihiko Frank.** Simplification of large linear systems using two-step iterative method.

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- 658 **Bhatia, Surendra P. S.** A new computational method for constrained nonlinear programming.  
659 **Jafari, Hossein.** A new loop structure for distributed microcomputing systems.  
660 **Karanam, Veerabhadra Rao.** Functional expansions in bilinear system analysis.  
661 **Nehrir, Mohammad Hashem.** A study of the effect of the rotor coil couplings of a synchronous machine on its predicted transient response.  
662 **Ramchandani, Hiranand Balchand.** Hybrid, high speed fault detection based on instantaneous line voltages.  
663 **Shadman-Valavi, Ali.** On the state and parameter estimation of stochastic bilinear systems: a sub-optimal filtering approach.

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- 664 **Hsu, Chin-Shung.** Bilinear control processes with application to immunology.  
665 **Ma, Peng-yi.** Optimizing the microcode produced by a high level microprogramming language.  
666 **Ramamurti, Chandramouli.** Multiple-fault detection in iterative arrays.  
667 **Rode, Ajit G.** Injection of electrons into silicon dioxide from planar silicon substrates.

#### Electrical and Computer Engineering—DOCTORS 1980

- 668 **Engelbrecht, Rudolf S.** The effect of rain on satellite communications above 10 GHz in the Pacific Northwest.  
669 **Malik, Kamran.** Designing a high level microprogramming language.  
670 **Maneshi, Reza.** Identification and analysis of simple models for the response time of complex computer systems.  
671 **Rathja, Roy C.** Tone burst deconvolution.  
672 **Warner, Clifford John.** Analysis of new protocols for computer communication networks.

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- 673 **Assiri, Jafar A.** Development of dependent failure reliability models for distributed communication networks.  
674 **Kolodziej, Wojciech Jan.** Conditionally Gaussian processes in stochastic control theory.

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- 675 **Kang, Yong Joong.** A distributed local computer network: FISHNET (Facilities Integrated in a Shared Habitat NETWORK).  
676 **Ku, Joseph W.** Defects and transport properties in  $\text{In}_{1-x}\text{Ga}_x\text{As}(\text{y})\text{P}_{1-y}$  and  $\text{Ga}_{1-x}\text{Al}_x\text{As}$ .  
677 **Rhee, Jin Koo.** Electrical and optical properties of semi-insulating and ion-implanted GaAs and InP.  
678 **Yang, Kei-wean Calvin.** Electrical and optical measurements on a.c. thin-film electro-luminescent devices.

#### Entomology—MASTERS 1978

- 679 **Bell, Harry Thomas.** Life history of the Obscure Root Weevil, *Sciopithes obscurus* (Horn), on rhododendron.  
680 **Rose, Sharon Diane.** Effect of diet on larval development, adult emergence and fecundity of the cinnabar moth, *Tyria jacobaeae* (L.) (Lepidoptera:Arctiidae).  
681 **Russell, Malcolm Howard.** Sampling and estimating populations of insect seed-predators in coniferous forests.  
682 **Sy, Adama.** Insect pests of economic importance on cereal crops in the Senegal River Basin, West Africa.  
683 **Tremblay, Alan.** Controlled release fumigation of the greater wax moth, *Galleria mellonella* (L.), a pest of stored honeycomb.

- 684 **Wilmot, Thomas Ray.** Seasonal distribution, sex attractants, and applied biology of the strawberry crown moth, *Synanthedon bibionipennis* (Boisduval), in Oregon (Lepidoptera:Sesiidae).  
685 **Youngs, Lorna C.** Effects of synthetic 9-oxodectrans-2-enoic acid on the foraging activities of honey bees (*Apis mellifera* L.).

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- 686 **André, Henri M.** Application of the study of organotaxy to a generic revision of the family Tydeidae (Acari : Actinedida).  
687 **Hafele, Richard E.** Effects of controlled flow reductions on the insect community of an Oregon coastal stream.  
688 **La Lone, Ralph Stanley.** Examination of factors affecting larval mortality of the black vine weevil, *Otiorhynchus sulcatus* Fab., on container grown rhododendrons.  
689 **Peters, Kay Myra.** Mechanisms of hop resistance to the two-spotted spider mite (*Tetranychus urticae* Koch).  
690 **Razafimahatratra, Vincent de Paul.** The *Deraeocoris* *Kirschbaum* and *Deraeocapsus* Knight of Oregon (Hemiptera: Miridae).  
691 **Seibert, Thomas Floyd.** Toward a continuous culture of bumble bees (*Bombus* Latr.).  
692 **VanKirk, James Ross.** The relationship of temperature to pupal development rates of the western cherry fruit fly, *Rhagoletis indifferens* Curran.  
693 **Vernoff, Suellen.** Sound production in *Leperisinus oregonus* Blackman and *L. californicus* Swaine (Coleoptera:Scolytidae).

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- 694 **Annis, Barry Alan.** Host preferences of green peach aphid and seasonal occurrence of weed hosts at key sites of aphid buildup.  
695 **Eltoum, Elameen M. A.** Resistance in snap beans, *Phaseolus vulgaris* L., to adult Western Spotted Cucumber Beetle, *Diabrotica u. indecimpunctata* Mann.  
696 **Stark, Steven Bruce.** Simulation of postdiapause development of the western cherry fruit fly, *Rhagoletis indifferens* Curran, and its application to predicting the time of adult emergence.  
697 **Suharto, Hendarsih.** Aphid age and in-vector virus concentration as factors influencing pea enation mosaic virus transmission by the pea aphid.

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- 698 **Cooper, Gary Michael.** The Miridae (Hemiptera : Heteroptera) associated with noble fir, *Abies procera* Rehd.  
699 **Eulensen, Gustav Egon.** Differential transmission of strawberry mottle virus by *Chaetosiphon thomas Hille Ris Lambers* and *Chaetosiphon fragaefolii* (Cockerell).  
700 **Gut, Larry Jerome.** Oviposition of the codling moth, *Laspeyresia pomonella* (L.), on several varieties of apples and pears.  
701 **Pajutee, Maret Silvia.** Food utilization by Cinnabar moth larvae, *Tyria jacobaeae* L. (Lepidoptera : Arctiidae) in relation to feeding site on the host plant, *Senecio jacobaea* L., (Compositae).  
702 **Pereira, Christine Rosabelle Dolores.** Life history studies of *Cinygma integrum* Eaton (Ephemeroptera : Heptageniidae) and other mayflies associated with wood substrates in Oregon streams.  
703 **Schwartz, Michael David.** A revision of the black grass bug genus *Irbisia* Reuter (Heteroptera:Miridae).

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- 704 **Cacka, Joseph Francis.** Biology, distribution and economic threshold of the strawberry root weevil, *Otiorhynchus ovatus* (L.), in peppermint.  
705 **Cox, Caroline Shipley.** Environmental controls on the capacity of tansy ragwort (*Senecio jacobaea* L.) to compensate for defoliation by cinnabar moth (*Tyria jacobaeae* L.).  
706 **Witcosky, Jeffrey John.** Insects associated with black stain root disease of Douglas-fir in western Oregon.

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- 707 **Brown, Robert David.** Gamma irradiation of the western cherry fruit fly for the sterile male control technique.  
708 **Stimac, Jerry Lynn.** A model study of a plant-herbivore system.

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- 709 **Scott, Donald Wayne.** Survival and development of the flat-headed fir borer in forest residues as affected by host and microclimatic conditions.

- 710 **Swaby, James Archie.** Pheromone-mediated behavior of adult Douglas-fir tussock moths, *Orgyia pseudotsugata* (McD.) (Lepidoptera: Lymantriidae).
- 711 **Undurraga O., Jaime M.** Effects of temperature and other abiotic and biotic factors on development and survival of the immature stages of the alfalfa leafcutting bee, *Megachile pacifica* (Panzer) (= rotundata (F.)) (Hymenoptera: Megachilidae).

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- 712 **Mahmoud, Ali Ahmed.** The Tabanidae (Diptera) of Oregon.
- 713 **Russell, Loren Kenneth.** A biological and systematic study of the armored boreid, *Caurinus decetes*, with comparative notes on related mecoptera.

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- 714 **Hollingsworth, Craig Stephen.** Twospotted spider mite, *Tetranychus urticae* Kock, in Oregon peppermint, *Mentha piperita* L.: sampling, population dynamics and economic injury.
- 715 **Maa, Can-jen William.** Carboxylesterases in the house fly (*Musca domestica*, L.), flesh fly (*Sarcophaga bullata*, Park.), and black blow fly (*Phormia regina*, Meig.).
- 716 **Razafimahatratra, Vincent de Paul.** A revision of the genus *Deraeocoris* Kirschbaum (Heteroptera: Miridae) from western America north of Mexico.

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- 717 **DeAngelis, Jack Douglas.** Effects of *Tetranychus urticae* Koch feeding injury on physiological processes in *Mentha piperita* L.
- 718 **Larew, Hiram Gordon.** A comparative anatomical study of galls caused by the major cecidogenetic groups, with special emphasis on the nutritive tissue.
- 719 **Vandenberg, John Donald.** Etiology and pathogenesis of chalkbrood in the alfalfa leafcutting bee, *Megachile rotundata*.

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- 720 **Hein, Maria Lynn.** Measurement of preschool children's consumer preferences.
- 721 **Hocking, Leila J.** Race and socio-economic-status in child psychopathology.
- 722 **Miksis, Joanne S.** Assessment of changes in behavioral understanding, marital role expectations, self-concept and ideal mate in high school students.
- 723 **Moran, Thomas.** Moral judgment and cognitive reasoning among young children.

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- 725 **Stone, Nancy T. J.** An exploratory study of family role structures and cognitive complexity.
- 726 **Strang, Nancy L.** Husbands' and wives' attitudes toward the therapeutic role.
- 727 **Wadsworth, Emily Malti.** Parental evaluations of children's social behaviors.

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- 728 **Knudsen-Lindauer, Shelley L.** Sex education practices of mothers and fathers with preschool children.
- 729 **Lee, Jae Yeon.** The sociocultural environment, maternal employment status and Korean children's awareness of sex-trait stereotypes.
- 730 **Palmer, Jill Susan Ginsburg.** Views of the female role, mothers' expression of sexual affection and female college students' attitudes toward sexual behavior.

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- 731 **Banta, Paul Roy.** Spouse therapeutic role attitudes and performances: an exploratory study.

- 732 **Kleffner, Carolyn Joyce.** Assessing the sex education attitudes and skills of parents of church attending preadolescents.
- 733 **Moore, Jacqueline Lee.** Sex role orientation, locus of control, and likelihood of pregnancy among young, unmarried women.
- 734 **Van Elswyk, Brent Alan.** Fathers' perceptions of their role and interest in parent education.

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- 735 **Harris, Janice J.** Self-concept and teacher competency among female college students in a preschool-teacher training program.

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- 736 **Fjelstad, Margaret Ann.** A study of the relationship between the firefighter occupational role and dyadic adjustment.
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- 738 **Gray, Cecilia D.** Achievement as a family theme in drama.
- 739 **Hunt, Shirley Jeanne Persons.** A comparative analysis of childless women with low birth expectations.

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- 740 **Abraham, Kitty Greene.** The influence of cognitive conflict on religious thinking in fifth and sixth grade children.
- 741 **Ames, Sheila A.** Sociability, constraints, network involvement, and the self-esteem of older women.
- 742 **Granberg, Beth Wellman.** Parental attitudes toward women's roles and daughters' sex role development.

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- 743 **McCown, Darlene Elizabeth.** Selected factors related to children's adjustment following sibling death.

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- 744 **Breuner, Gregory Brennan.** A survey of personal finance curriculum in Oregon secondary schools.
- 745 **Close, Betsy L.** Consumer use and understanding of unit pricing in two cities: Portland, Oregon and Seattle, Washington.
- 746 **Olson, Pamela Niemeyer.** Evaluation of participants' learning resulting from a personal finance workshop.

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- 747 **Amling, Janice E.** Practices and preferences of rural grocery shoppers in Scio, Oregon.
- 748 **Ferrara, Pamela Ann.** Labor force attachment of mature women, Corvallis, Oregon: an analysis of determinants.
- 749 **Kubin, Laurel Covington.** Consumer credit attitudes, knowledge and use by high school juniors and seniors in Rio Blanco County, Colorado.
- 750 **Parker, Louise Anne.** Shared family time: an analysis in two-parent, two-child Oregon households.

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- 751 **Granite, Mary Lou.** Energy considerations in remodeling of owner-occupied single family dwellings, Corvallis, Oregon.
- 752 **Miyamoto, Naomi Sachie.** An investigation of consumers' knowledge and use of the Real Estate Settlement Procedures Act of 1974 as amended in 1975.

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- 753 **Bradford, Nancy Ellen.** Travel time: an analysis in two-parent, two-child Oregon households.
- 754 **Kennedy, Louise Claudia.** Time use for household tasks performed by school-age children in two-parent, two-child Oregon families.
- 755 **Lang, Birgit.** Consumer satisfaction with problem resolution in Oregon: an analysis of determinants.
- 756 **Vallade, Linda Michelle.** The behavioral effectiveness of consumer credit counseling service on past clients in Linn-Benton County, Oregon.
- 757 **Weiss, Molly Deborah.** An exploratory study of women's involvement in the estate planning process in selected Oregon communities.

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- 758 **Buck, Lynn E.** Comparison of Oregon renters' and non-renters' home energy conservation behavior, belief about the U.S. energy problem, belief about their home energy efficiency, and belief about four energy policy directions.
- 759 **Marganus, Martin.** Attitudes and behavior toward energy consumption among Oregon residents and their sociodemographic correlates.
- 760 **Remmele, Antonie.** The development and pilot testing of a model for assessing the effectiveness of innovative consumer education programs.

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- 761 **Brandt, Jeanette Ann.** Homeownership consumption and investment attitude scales: development and analysis.

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- 762 **Kreuz, Keith Francis.** Long-term variation in growth of Dover sole (*Microstomus pacificus*) and English sole (*Parophrys vetulus*), and its possible relationship with upwelling.

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- 763 **Grimes, Terry Neill.** Correlations between rainbow trout (*Salmo gairdneri*) populations and stream environments in Eastern Oregon streams.
- 764 **Thompson, Grant Garrison.** A theoretical framework for economic fishery management.

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- 765 **Duke, Stephen D'Wayne.** Distribution of fishes and their relationships to environments in selected coastal streams, Douglas and Coos Counties, Oregon.
- 766 **McClure, Robert Edward.** Neritic reef fishes off central Oregon: aspects of life histories and the recreational fishery.
- 767 **Stuart, Robert Edward.** Physiological and pharmacological investigation of the vascularized and nonvascularized teleost heart with adrenergic, cholinergic and coronary dilating agents.

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- 768 **Pfeifer, Keith Frederic.** Biochemical and physiological aspects of carbon tetrachloride ( $CCl_4$ ) toxicity in the rainbow trout.

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- 769 **Morris, Steven L.** The osteology and relationships of the Embiotocidae (Pisces).
- 770 **Sleet, Randolph Bullock.** The relationship between the gut and the water-electrolyte balance of a marine teleost, *Enophrys bison* (Girard).

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- 771 **Amandi, Antonio.** Effects of *Nanophyetus salmincola*, the salmon poisoning trematode, on growth and hematological characteristics of coho salmon and steelhead trout.
- 772 **Bills, Frederick T.** Taxonomic status of the isolated populations of tui chub referred to *Gila bicolor oregonensis* (Snyder).
- 773 **Chesnutis, Edward Joseph.** Relationships of the freshwater naiad *Margaritifera margaritifera falcata* to some fishes of the Willamette River.
- 774 **Costain, David Bruce.** Dynamics of a population of Belding's ground squirrels in Oregon.
- 775 **Golden, James Thomas.** The effects of fluctuating temperatures on the lethal tolerance limits of coastal cutthroat trout (*Salmo clarki clarki*).
- 776 **Hayman, Robert August.** Environmental fluctuation and cohort strength of Dover sole (*Microstomus pacificus* and English sole (*Parophrys vetulus*)).
- 777 **Hinschberger, Mark Steven.** Occurrence and relative abundance of small mammals associated with riparian and upland habitats along the Columbia River.
- 778 **Kornet, Christine Anne.** Status and habitat use of California bighorn sheep on Hart Mountain, Oregon.
- 779 **Martin, James T.** Racial identification of chinook salmon (*Oncorhynchus tshawytscha*) and juvenile steelhead trout (*Salmo gairdneri*).
- 780 **Redding, Joseph Michael.** The adaptive significance of certain enzyme polymorphisms in steelhead trout (*Salmo gairdneri*).

- 781 **Sower, Stacia Ann.** Growth and precocious development of steelhead trout: effects of hormonal compounds.
- 782 **Van Dyke, Walter A.** Population characteristics and habitat utilization of bighorn sheep, Steens Mountain, Oregon.
- 783 **Wanjala, Benny.** The association and distribution of fish species in Nyanza Gulf, Lake Victoria, East Africa, 1975.
- 784 **Wilson, Marcia M.** The effects of rotational grazing and prescribed burning on bobwhite populations in south Texas.
- 785 **Winter, Gary Wayne.** Resistance of coho salmon (*Oncorhynchus kisutch*) and steelhead trout (*Salmo gairdneri*) stocks and transfer-in genotypes to bacterial kidney disease and vibriosis.

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- 786 **Baker, Calvin Orville.** The impacts of logjam removal on fish populations and stream habitat in Western Oregon.
- 787 **Coombs, Candia Irene.** Reef fishes near Depoe Bay, Oregon: movement and the recreational fishery.
- 788 **Kiokemeister, Elizabeth Ann.** The effects of multiple toxicants on growth of the guppy, *Poecilia reticulata*.
- 789 **Murphy, Michael Louis.** Predator assemblages in old-growth and logged sections of small Cascade streams.
- 790 **Peterson, Nancy M.** Biological characteristics of wild and hatchery steelhead trout, (*Salmo gairdneri*) in two Oregon rivers.
- 791 **Scarnecchia, Dennis Leslie.** Factors affecting coho salmon production in Oregon.
- 792 **Simpson, Susan Gay.** Comparative ecology of several subspecies of Canada geese during winter in western Oregon.
- 793 **Steiner, Richard George.** Food habits and species composition of neritic reef fishes off Depoe Bay, Oregon.
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- 795 **Sweet, Diane Ruth.** Myxosporidians of rainbow and cutthroat trout broodstocks from Oregon hatcheries.
- 796 **Tomasson, Tumi.** Age and growth of cutthroat trout, *Salmo clarki clarki* Richardson, in the Rogue River, Oregon.
- 797 **Toner, Margaret Ann.** Comparative growth of juvenile Pacific oysters (*Crassostrea gigas*) fed unialgal vs. synthesized diets.

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- 798 **Cairns, Michael A.** Estimation of chronically safe zinc concentrations with steelhead trout (*Salmo gairdneri*) emphasizing ventilatory responses.
- 799 **Faudskar, John David.** Ecology of underyearling summer steelhead trout in intermittent streams tributary to the Rogue River, Oregon.
- 800 **Goldenberg, Debra Lynn.** The effect of maternal condition on sex ratio of offspring of grey-tailed voles.
- 801 **Hjort, Randy Carl.** Phenotypic comparison of hatchery and wild coho salmon (*Oncorhynchus kisutch*) in Oregon, Washington, and California.
- 802 **Holtan, Lars H.** Nesting habitat and ecology of Aleutian terns on the Copper River Delta, Alaska.
- 803 **Kalinowski, Stephan Alexander.** Efficacy of sodium fluoroacetate in reducing ground squirrel damage to alfalfa.
- 804 **Knight, Ned Jay.** Factors affecting the smolt yield of Coho salmon (*Oncorhynchus kisutch*) in three Oregon streams.
- 805 **Kulbicki, Michel Louis.** The effects of diel and different food levels on life history tactics of the guppy (*Poecilia reticulata* Peters).
- 806 **Myers, Katherine West Whitney.** An investigation of the utilization of four study areas in Yaquina Bay, Oregon, by hatchery and wild juvenile salmonids.
- 807 **Oates, Russell M.** Effects of habitat manipulations on California quail in western Oregon.
- 808 **Purcell, Alice.** Seasonal movements and home ranges of mule deer at Lava Beds National Monument.
- 809 **Sandoval, William A.** Odor detection by Coho salmon (*Oncorhynchus kisutch*): a laboratory bioassay and genetic basis.
- 810 **Tresierra-Aguilar, Alvaro.** Life history of the snake prickletail *Lumpenus sagitta* Wilimovsky, 1956.
- 811 **Van Vuren, Dirk.** Ecology and behavior of bison in the Henry Mountains, Utah.
- 812 **Worcester, Thomas C.** Mercury accumulation in fish from Cottage Grove Reservoir and its tributaries.

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- 813 **Baker, Rocky Joseph.** Susceptibility of chinook salmon (*Oncorhynchus tshawytscha*) and rainbow trout (*Salmo gairdneri*) to infection with *Vibrio anguillarum* following sublethal copper exposure.
- 814 **Caldarone, Elaine Marie.** Exposure of coho salmon (*Oncorhynchus kisutch*) to petroleum hydrocarbons: effect on lipid metabolism and aryl hydrocarbon hydroxylase activity.
- 815 **Fendrick, James Leonard.** Influence of Aging on the maturation, examined by scanning electron microscopy, and transmission of *Ceratomyxa shasta* (*Myxosporaea*), a protozoan parasite of salmonid fishes.
- 816 **Finger, Susan Everett.** Effects of perturbation on community structure and organization in aquatic microcosms.
- 817 **Hohler, David Berry.** A dwarfed population of *Catostomus rimiculus* (*Catostomidae*: *Pisces*) in Jenny Creek, Jackson County, Oregon.
- 818 **Jacobs, Steven Edward.** Stream habitat utilization and behavior of sympatric and allopatric wild cutthroat trout (*Salmo clarki*) and hatchery coho salmon (*Oncorhynchus kisutch*).
- 819 **Kapuscinski, Anne.** In search of the optimum stocking density for chum salmon (*Oncorhynchus keta*) eggs in shallow matrix substrate incubators.
- 820 **Keister, George P.** Characteristics of winter roosts and populations of bald eagles in the Klamath Basin.
- 821 **Klika, Larry John.** An investigation of the blood-brain barrier in the rainbow trout (*Salmo gairdneri*).
- 822 **Kruse, Gordon Henry.** Relationships between shelf temperatures, coastal sea level, the coastal upwelling index, and English sole (*Parophrys vetulus*) spawning activity off Oregon.
- 823 **Muranaka, Michael Shigeo.** Broodstock management of the Pacific oyster *Crassostrea gigas* (Thunberg).
- 824 **Paylor, David King.** The effects of intermittent and continuous copper exposure on the susceptibility of Steelhead trout (*Salmo gairdneri*) to infection by *Vibrio anguillarum*.
- 825 **Rostker, Margaret Anne.** Some lizard-habitat relationships in the Northern Great Basin.
- 826 **Wilson, Ruth A.** Snowy plover nesting ecology on the Oregon coast.

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- 828 **Dorsey, Geoffrey L.** An analysis of avian communities on three islands, Lower Columbia River, Oregon.
- 829 **Gant, Daniel Brian.** Neuromuscular pharmacology and [<sup>125</sup>I]-aebungarotoxin binding characteristics of the pectoral muscle of the buffalo sculpin (*Enophrys bison*).
- 830 **Gregor, Marion Elizabeth.** A conceptual unification and application of biogeoclimatic classification.
- 831 **Kern, John Christopher.** Succession of the under-ice fauna on fast ice off Narwhal Island, Alaska in 1980 and a report on an exclusion experiment of sub-ice fauna from the ice.
- 832 **Washington, Betsy B.** Identification and systematics of larvae of *Arteidius*, *Clinocottus*, and *Oligocottus* (*Scorpaeniformes*: *Cottidae*).

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- 833 **Parrish, Richard Henry.** An assessment of environmentally related variation in the recruitment of the California Current stock of Pacific mackerel (*Scomber japonicus*) and its implications for management.

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- 834 **Barton, Michael Glenn.** Influence of temperature and salinity on the adaptation of *Anoplarchus purpureus* and *Pholis ornata* to an intertidal habitat.
- 835 **Muska, Carl Frank.** Evaluation of an approach for studying the quantitative responses of whole organisms to mixtures of environmental toxicants.
- 836 **Strange, Richard Jackson.** Changes in plasma cortisol concentration of juvenile salmonids during stress.

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- 837 **Hughes, Robert M.** Temperature, interspecific competition, and the production of juvenile salmonids in experimental stream communities.

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- 838 **Barton, Anne Christine Kristiansson.** Factors influencing the life history of spring chinook salmon (*Oncorhynchus tshawytscha*) spawning in the Columbia River watershed from 1960 to 1977.
- 839 **Finger, Terry Richard.** Patterns of interactive segregation in three species of sculpins (*Cottus*) in western Oregon.
- 840 **Forsman, Eric D.** Habitat utilization by spotted owls in the West-Central Cascades of Oregon.
- 841 **Gregory, Stanley Vincent.** Effects of light, nutrients, and grazing on periphyton communities in streams.
- 842 **Helle, John H.** Influence of marine environment on age and size at maturity, growth, and abundance of chum salmon, *Oncorhynchus keta* (Walbaum), from Olsen Creek, Prince William Sound, Alaska.

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- 843 **Armantrout, Neil Brant.** The freshwater fishes of Iran.
- 844 **Meyerhoff, Roger Dean.** Exercise and acid-base balance in rainbow trout.
- 845 **Sower, Stacia Ann.** Sexual maturation of coho salmon (*Oncorhynchus kisutch*): induced ovulation, in vitro induction of final maturation and ovulation, and serum hormone and ion levels of salmon in seawater and fresh water.
- 846 **Specker, Jennifer Lee.** Hormonal and osmoregulatory aspects of smoltification in coho salmon, *Oncorhynchus kisutch*.
- 847 **Williams, Jack Edward.** Systematics and ecology of chubs (*Gila*: *Cyprinidae*) of the Alvord Basin, Oregon and Nevada.
- 848 **Woltering, Daniel Mark.** Organization and the adaptation of aquatic laboratory ecosystems to resource availability, exploitation, and a toxicant.

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- 849 **Mannan, Robert William.** Bird populations and vegetation characteristics in managed and old-growth forests, northeastern Oregon.
- 850 **Smoker, William Williams.** Quantitative genetics of chum salmon, *Oncorhynchus keta* (Walbaum).
- 851 **Spinrad, Richard William.** Optical characteristics of the suspended sediment in the High Energy Benthic Boundary Layer Experiment.
- 852 **Stein, David Leslie.** Aspects of reproduction, early life history, and biology of bathyal and abyssal liparididae and macrouridae (*Pisces*) off Oregon.
- 853 **Witmer, Gary William.** Roosevelt elk habitat use in the Oregon Coast Range.

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- 854 **Chu, Tien-iu.** Frozen shelf-life characteristics of condensed phosphate treated Pacific shrimp meat (*Pandalus jordani*).

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- 855 **Abers, Julie Ellen.** Causative factors of color deterioration in strawberry preserves during processing and storage.
- 856 **Andrews, Matthew V.** Flavors associated with the use of cheddar cheese whey powder in ice cream mix.
- 857 **Culbertson, Jeffry Dean.** Acid stabilization of autolyzed fish: storage and nutritional characteristics.
- 858 **De Rosenzweig Pasquel, Lorenzo Jose.** Isolation and partial characterization of a natural antioxidant from shrimp (*Pandalus jordani*).
- 859 **Dondero, Marta Luisa.** Preparation of a potato hydrolysate with *Bacillus subtilis*  $\alpha$ -amylase.

- 860 **Madero, Carlos F.** Effect of initial quality on the frozen shelf-life of Pacific shrimp (*Pandalus jordani*).
- 861 **Ngaba-Mbiakop, Pierre Rolland.** Microbial characterization of cassava (*Manihot esculenta* Crantz) fermentation.
- 862 **Parker, Robert S.** Metabolism of (1-<sup>14</sup>C) linolenic acid in coho salmon, *Oncorhynchus kisutch*.
- 863 **Schen, Julie A.** Essence recovery from stawberry pomace.

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- 864 **Bailey, Marcia Lynn.** Comparative effects of sterculic and malvalic acids on the hepatic microsomal cytochrome P-450 system of rainbow trout (*Salmo gairdneri*).
- 865 **Chang, Yih Hermon.** Chemical analysis of acid precipitated colloid of ripe bartlett pear juice.
- 866 **Chao, Rong-yue.** Improvement of the peelability of Pacific shrimp (*Pandalus jordani*) with citric acid and heat pretreatment.
- 867 **Chung, Yuh-mei.** Inhibition of microbial growth in seafood by potassium sorbate.
- 868 **Gallagher, Daniel LeRoy.** Studies on cucumber fermentation: microbiological analyses and factors influencing bloating.
- 869 **Lee, Dai-lih Doris.** The influence of enzymes on color deterioration of strawberry juice and concentrate.
- 870 **McKenzie, Stephen M.** Characterization of *Arthrobacter* species isolated from marine and seafood sources.
- 871 **Vernon, Stephen M.** Nutritional and biochemical characterization of *Moraxella* species isolated from fishery sources.

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- 872 **Ayeni, Timothy Olusegun.** Effect of condensed phosphate and steam precooking time on the yield and quality of canned shrimp (*Pandalus jordani*) meat.
- 873 **Chao, Lucia Sy-Jing Lo.** Influence of fish on the bioavailability of plant iron in the anemic rat.
- 874 **Cornwell, Chris.** Causes of browning in pear juice concentrate during storage.
- 875 **Elkhalifa, Elamin Abdalla.** The effect of prerigor electrical stimulation pH decline, protein solubility and water holding capacity in beef muscles.
- 876 **Kortekaas, Marjan G.** Clarification of pear juice by hollow fiber ultrafiltration.
- 877 **Nouchpramool, Kovit.** Effect of condensed phosphates and steam precooking time on the yield and quality of cooked shrimp (*Pandalus jordani*) meat.
- 878 **Poei, Metty Soek-Kioen.** The role of ascorbic acid on discoloration of strawberry juice and concentrate.
- 879 **San Roman, Maria Teresa.** Yield and quality of meat from shrimp (*Pandalus jordani*) precooked in water containing condensed phosphates.
- 880 **Smith, Denise Myrtle.** Methods of extraction and characterization of polyphenol oxidase from d'Anjou pears (*Pyrus Communis* L.).
- 881 **Tinsley, Joel Ray.** The influence of vegetable fibers on mineral balance in the rat.
- 882 **Voss, Sherri Denise.** Induction of hepatic microsomal enzymes in rainbow trout by dietary aroclor 1254 and the effect of cyclopropene fatty acids.

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- 883 **Carter, Amanda L.** The isolation and characterization of naturally occurring antioxidants in blackstrap, sugarcane molasses.
- 884 **Clark, Max Gregory.** Evaluation of methods to enumerate psychrotrophic bacteria in fluid milk.
- 885 **Erickson, Marilyn Clara.** Qualitative evaluation of the proteolytic activity in the muscle of Pacific whiting (*Merluccius productus*).
- 886 **Guy, Vicki H.** The growth of *Salmonella typhimurium*, *Staphylococcus aureus*, and *Bacillus cereus* in bakery products as related to the food distribution system.
- 887 **Haight, Lynn Ellen.** The characterization of the MFO system in rainbow trout fed cruciferous vegetables.
- 888 **Kruk, Mark W.** Inhibition of *Escherichia coli* trimethylamine-N-oxide reductase by food preservatives.
- 889 **Miaw, Mei-chen.** Studies on the recovery of concentrate pear essence from ripe Bartlett pears.

- 890 **Miller, Frederick Kenton.** Mesurol (methiocarb) residues in grapes and wine and their possible effects on fermentation and wine quality.
- 891 **Nygaard, Michael DuWayne.** The effect of prerigor electrical stimulation of beef muscle on selected bacteria.
- 892 **Olaeta-Coscorroza, Jose A.** Effect of maturity on the physical, chemical and sensory properties of frozen peas.
- 893 **Sayavedra-Soto, Luis Alberto.** Effect of moisture, temperature, and sulfur dioxide on color of dried apples.
- 894 **Shadbeh, Maryam.** Drug resistance indexing *Enterobacter* as a method of identifying food contamination of public health significance.
- 895 **Wesche Ebeling, Pedro Alfredo E.** Extraction and partial characterization of strawberry polyphenol oxidase.
- 896 **Whitham, Mark.** Effect of various parameters on in vivo Aflatoxin B<sub>1</sub> binding to rainbow trout (*Salmo gairdneri*) liver DNA.

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- 897 **Akel, Phillip John.** Characterization of the collagen protein in smooth pink shrimp (*Pandalus jordani*).
- 898 **Chu, Caroline Li-yuan.** Temperature requirement for the efficient application of condensed phosphate to Pacific shrimp (*Pandalus jordani*).
- 899 **Garcia-Lopez, Jesus Salvador.** Iron availability from corn tortillas and cooked beans (*Phaseolus vulgaris*): a study on the effect of fiber.
- 900 **Hassanein, Sitir M.** Color of strawberry juice and concentrate as influenced by heating and storage temperatures.
- 901 **Hernandez-Molinari, Ernesto.** An improved solvent extraction of onion oil.
- 902 **Hodgson, Jeanne.** Ultrafiltration of pear juice: chemical and physical analysis.
- 903 **Huerta-Espinosa, Victor M.** Significance of air removal in institutional size retortable pouches.
- 904 **Johnson, Lynn I.** Heterotrophic bacteria associated with a feed algae for oyster larvae.
- 905 **Kuhn Abaunza, Martha Cecilia.** Pear juice concentrate studies: color stabilization by forced aeration, decolorization and clarification.
- 906 **Ronan, Kathleen M.** The effects of processing on sodium-potassium and calcium-phosphorus ratios in foods.
- 907 **Swanson, Joy Emily.** The effects of cyclopropenoid fatty acids on the growth, blood lipids, and viral infectivity of White Leghorn chickens.
- 908 **Timm, Elizabeth M.** Isolation and survival of *Campylobacter jejuni* in foods.

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- 909 **Yoss, James Kenneth.** Metabolism of 14C-sterculic acid in rats and rainbow trout (*Salmo gairdneri*).

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- 910 **Akhavan, Iradj.** Variation of sugars and acids during ripening of pears and in the production and storage of pear concentrate.
- 911 **Boyko, Alayne Linda.** Porous polymer trapping for GC/MS analysis of volatile flavor compounds in corn.
- 912 **Stott, William T.** Dietary protein and aflatoxin B<sub>1</sub> metabolism in rainbow trout (*Salmo gairdneri*).

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- 913 **Geromel, Edison Jose.** Release of lipase from lysosomes of rainbow trout (*Salmo gairdneri*) muscle subjected to low temperatures.
- 914 **Hotchkiss, Joseph H.** Analysis of N-nitrosamines and nitramines in foods and herbicides.

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- 915 **Canhos, Vanderlei Perez.** Microorganisms isolated from sand filtered bay water and the proteolytic activity of a flavobacterium isolate.
- 916 **Ngaba-Mbiakop, Pierre Rolland.** Investigation of methods for determination and prevention of protein instability in wines.
- 917 **Parker, Robert S.** The use of liposomes as encapsulating agents for feeding juvenile Pacific oysters (*Crassostrea gigas*).

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- 918 **Ablett, Richard F.** An investigation of the effects of nutritional status on the action of insulin in rainbow trout (*Salmo gairdneri*).

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- 919 **Adegoroye, Modupe Elizabeth.** The effects of fermentation on the thiamin, riboflavin, and amino acid content of African locust-bean seeds.
- 920 **Blaha, Sandra Jeanne Mitchell.** Measurements of pupil size in response to pictures of food with changes in the percentage of blood glucose in underweight, normal weight, overweight, and obese women.
- 921 **Peppers, Diane Elizabeth.** Bioavailability of vitamin B<sub>6</sub> from wheat breads in humans.
- 922 **Shen, Chia-ying.** Studies on dietary factors affecting plasma and red cell folate.

### **Foods and Nutrition—MASTERS 1979**

- 923 **Hughes, Jamie Marie.** Significance of a graphic plot of developmentally delayed children on anthropometric growth charts and its relationship to dietary intake.
- 924 **Jensen, Christine May.** Deoxycytidine excretion in vitamin B<sub>6</sub> or pantothenic acid deficient rats.
- 925 **Patterson, Janet Elizabeth.** Bacteria of public health significance on alfalfa and bean sprouts at the retail level.
- 926 **Schardt, David G.** Vitamin A status of vegetarians.

### **Foods and Nutrition—MASTERS 1980**

- 927 **Barrett, Joan.** Ascorbic acid and vitamin B<sub>6</sub> retention in broccoli and green peppers after home dehydration and storage.
- 928 **Blecher, Lee.** The effects of meal frequency on plasma lipids in moderately obese humans.
- 929 **Brown, Carolyn Gene.** Physical and sensory characteristics of a wheat flour and modified waxy maize starch system in a commercially prepared cream of cheese with bacon frozen soup concentrate during processing and after storage.
- 930 **Cochran, Carol Marie.** The effect of lecithin supplementation on human blood lipids, coagulability, and cholesterol esterification.
- 931 **Ganong, Carrie A.** The effect of soy and beef diets on nitrogen and zinc balance in men.
- 932 **Lind, Mary Beth.** Vitamin B<sub>6</sub> status in young women using oral contraceptives.
- 933 **Lindberg, Andrea Susan.** The effect of wheat bran on the bioavailability of vitamin B<sub>6</sub> in humans.
- 934 **Stark, Christina May.** An evaluation of the effectiveness of a nutrition education workshop for home economics teachers.
- 935 **Surlak, Lorraine Diane.** The contribution of the Type A school lunch to the adolescent female's total nutrient intake.
- 936 **Whitmore, Aileen Perdue.** Home preservation practices and knowledge of Alberta homemakers.
- 937 **Yu, Michelle Hui-ming.** Effect of wheat bran on fecal nutrients and bowel function in humans.

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- 938 **Henry, Holly Jean.** Salt preference, sodium excretion and blood pressure in normal adults.
- 939 **Hoaglund, Judith Ann.** The relationship of dietary intake to blood vitamin B<sub>6</sub> in oral contraceptive users.
- 940 **Lewis, Julie Maureen.** The effect of a salmon diet on the absorption of dietary cholesterol, plasma lipid levels, and the fecal excretion of neutral steroids and bile acids.
- 941 **Loghmani, Emily S.** Effect of cooking on the fiber content of cauliflower and carrots.

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- 942 **Curtis, Suzanne Render.** Time allocations to job functions of school foodservice directors in Oregon.
- 943 **Daoust, Jan Morgan.** Interrelationships among attitudes toward and practice of nutrition and health of prepaid health plan members.
- 944 **Dustrude, Ann Marie.** Nutrient intake of selected non-reservation native Americans residing in southwest Oregon.
- 945 **Finley, Elizabeth Bidwell.** Influence of ascorbic acid supplementation on copper status in young adult men.
- 946 **Houghton, Leslie Anne.** The contribution of snacking to the diets of freshman college women.

- 947 **Li, Yu-tsuang.** Vitamin B<sub>6</sub> retention in all-beef and beef-soy loaves processed by two simulated food-service systems.
- 948 **McCarty, Ann Marie.** Influence of various wavelengths of light on bone metabolism in enucleated rats.
- 949 **Munoz, Kathy Denise.** The influence of exercise on vitamin B<sub>6</sub> metabolism.
- 950 **Nester, Susan DeWitt.** Contamination and growth of *Bacillus cereus* and *Clostridium perfringens* in Mexican-style beans.
- 951 **Soetrisno, Uken Sukaeni Sanusi.** The effect of heating time of soybean on vitamin B<sub>6</sub> and folacin retention, trypsin inhibitor activity, and microstructure changes.
- 952 **Wang, Ann-gau Nancy.** The effect of pyridoxine supplementation on erythrocyte aminotransferase activity in man.
- 953 **Wei, Shu-feng.** Effect of dietary fiber level on the proximate composition and water-holding capacity of rabbit meat.

### **Foods and Nutrition—DOCTORS 1978**

- 954 **Cusack, Gil-Won Song.** Effect of dietary lecithin on cholesterol esterification, tissue cholesterol and platelet aggregation in guinea pigs.
- 955 **Paik, Hyun Suh.** Influence of dietary fat and meal frequency on lipoprotein lipase and hormone-sensitive lipase in rat adipose tissue.
- 956 **Wozenski, Janet Regina.** The metabolism of vitamin B<sub>6</sub> in humans and guinea pigs.

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- 957 **Ro, Sookya Lim.** Vitamin B<sub>12</sub> and ascorbic acid in kimchi with *Propionibacterium shermanii*.
- 958 **Ross, Jane Kaye.** Effect of dietary wheat bran and citrus pectin on human fecal steroids, B-glucuronidase, and 7 alpha-dehydroxylase: possible relationship to colon cancer.
- 959 **Skinner, Jean Dingman.** Teacher characteristics related to effective nutrition education for adolescents.

### **Foods and Nutrition—DOCTORS 1981**

- 960 **Shultz, Terry Dale.** Comparative nutrient intake and biochemical interrelationships among healthy vegetarian and nonvegetarian Seventh-Day Adventists, nonvegetarians, and hormone dependent cancer subjects.

### **Foods and Nutrition—DOCTORS 1982**

- 961 **Alexander, Anne Rose.** The effect of food processing on the bioavailability of selenium in tuna and wheat: human and rat studies.
- 962 **Hollenbeck, Clarie Beall.** The effect of high carbohydrate, low fat diets on lipoprotein lipids, apoproteins, nutritional status and diabetic control in insulin dependent (Type I) diabetes mellitus.

### **Forest Engineering—MASTERS 1978**

- 963 **Brantigan, Richard Thomas.** Critical conditions for carriage passage at the support jack for uphill yarding.
- 964 **Henshaw, John Robinson.** A study of the coefficient of drag resistance in yarding logs.
- 965 **Hess, Vernon Scott.** Predicting logging debris accumulation in natural streambeds: a method for forest managers.
- 966 **Ketcheson, Gary Leslie.** Hydrologic factors and environmental impacts of mass soil movements in the Oregon Coast Range.
- 967 **Nickerson, Devon B.** A model for the determination of optimum setting dimensions for tractor yard/swing operations.
- 968 **Paustian, Steven Julius.** The suspended sediment regimes of two small streams in Oregon's Coast Range.
- 969 **Schnare, Jon Keith.** Factors that affect U.S.D.A. timber sale layout time in the Pacific Northwest.
- 970 **Steinblums, Ivars John.** Streamside buffer strips: survival, effectiveness, and design.

### **Forest Engineering—MASTERS 1979**

- 971 **Johnson, Michael G.** Infiltration capacities and surface erodibility associated with forest harvesting activities in the Oregon Cascades.

### **Forest Engineering—MASTERS 1980**

- 972 **Adams, James Neal.** Variations in gravel bed composition of small streams in the Oregon Coast Range.
- 973 **Edwards, Richard Earl.** Sediment transport and channel morphology in a small mountain stream in Western Oregon.

- 974 **Falk, Gary Dale.** A study of the lateral yarding forces in a cable thinning.
- 975 **Keller, Robert Richard.** Prebunching with a low investment skyline yarder in thinnings.
- 976 **Skaugset, Arne Edward.** Fine organic debris and dissolved oxygen in streambed gravels in the Oregon Coast Range.

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- 977 **Cafferata, Peter Herman Louis.** The effects of compaction on hydrologic properties of forest soils in the Sierra Nevada.
- 978 **O'Leary, Susan Jean.** Bedload transport in an Oregon Coast Range stream.
- 979 **Vanderheyden, Jon.** Chronological variation in soil density and vegetative cover of compacted skid trails in clearcuts of the western Oregon Cascades.

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- 980 **Andrus, Charles Wesley.** Tilling compacted forest soils following ground-based logging in Oregon.
- 981 **Campbell, Alan J.** Prediction of peak flows for culvert design on small watersheds in Oregon.
- 982 **Larson, Keith R.** An evaluation of a procedure for predicting sediment yield increases from silvicultural activities.
- 983 **Lyons, Joseph Kevin.** Influences of landslides, floods and land use on channel changes of the upper Middle Fork Willamette River, Oregon 1936-1980.
- 984 **Seifert, Jon Carl William.** Production rates and residual stand impact for four skidding machines during overstory removal.

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- 985 **Ice, George G.** Reaeration in a turbulent stream system.

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- 986 **Jackson, William Longstreth.** Bed material routing and streambed composition in alluvial channels.

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- 988 **Graham, Joseph Nelson.** The use of a three-stage sample to estimate the effect of commercial thinning on the growth of two stands of Douglas-fir.
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- 997 **Ernst, Susan.** Volume and value equations for young-growth red, white, and grand fir.
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- 999 **Vomocil, Marc Grayson.** Effects of different yield functions and initial inventory on harvest schedules for Douglas-fir.

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- 1000 **Boodt, William Allan.** Effects of reservoir recreation development upon rural residential property values.

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- 1003 **Krzak, Joan.** A model of forest nitrogen cycling to assess the effects of management intensity on long-term productivity in Douglas-fir forests of the Pacific Northwest.

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- 1004 **Dippon, Duane R.** The economic consequences of intensifying forest management in Douglas County, Oregon.
- 1005 **Howard, Theodore E.** Impacts of business organization form on federal estate and income tax liabilities of nonindustrial private forest landowners.

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- 1006 **Colella, Robert Joseph.** Gas-liquid chromatographic analyses of the thioglycolic acid reaction of catechin-type compounds.
- 1007 **Hill, Michael Douglas.** Resin efficiency: the effect of varying resin distributions upon resin performance in particleboard.
- 1008 **Robinson, Walter P.** The influence of seed source origin and phenological characteristics on wood quality in a young Douglas-Fir Provenance Plantation.

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- 1009 **Dougal, Edward Francis.** Effect of solvent extraction and planing of veneers from Southeast Asian species upon glue-line characteristics and bond durability.
- 1010 **Jay, Gregory Lynn.** The influence of various resin parameters on the physical properties of oak flakeboard.
- 1011 **Knutsen, Daniel Peter.** A study of deshive refining and its effects on high yield kraft pulp.
- 1012 **McLaughlin, Edward J.** Stress at deformations beyond the elastic limit for compression perpendicular to the grain in hem-fir.
- 1013 **Promachotikool, Montree.** The effect of wood density on the kraft pulping properties of Douglas-fir (*Pseudotsuga menziesii* (Mirb.) Franco).

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- 1014 **Goodell, Barry Scott.** Chloropicrin movement and fungitoxicity in decaying southern pine laminated timbers.
- 1015 **Ilcewicz, Larry Bert.** On the phenomena of fracture in particleboard.
- 1016 **Kadlec, Kim Michael.** Wetting as a predictor of surface inactivation for platen dried Douglas-fir veneer.
- 1017 **Lai, Jinn-Hsing.** The bleaching response of kraft pulps from fresh and aged commercial Douglas-fir chips.
- 1018 **Masters, Keith R. W.** Steam-jet heat recovery in a lumber dry kiln.
- 1019 **Perfecto Segoviano, Ignacio.** Investigation of the fundamentals of fluorescent behavior of kraft-anthraquinone pulping liquors.

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- 1020 **Chen, Shaw-sun.** Evaluation of testing procedures for stiffness properties of plywood.
- 1021 **Helsing, Guy Gustav.** Serviceability of Douglas-fir marine piles and control of their deterioration.
- 1022 **Loferski, Joseph R.** Inelastic stiffness moduli for nail joints between wood studs and plywood sheathing.
- 1023 **Milota, Michael.** The effects of diisocyanate-polyol resins on the properties of particleboard.
- 1024 **Ni, Frank Hae-rong.** The analyses of the monosaccharides of cellulosic hydrolyzates by liquid chromatography.
- 1025 **Oswald, Kurt Daniel.** Drying wood and bark fuels with boiler exhaust gases.



- 1026 **Rubitschun, Robert Allen.** Measuring adhesive cure by dielectric analysis.
- 1027 **Sandoe, Michael Dean.** Gluability of platen-dried Douglas-fir veneer.
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- 1028 **Atherton, Jon C.** Model for the prediction of nail withdrawal stiffness.
- 1029 **Charleson, Dan Alexander.** Polyphenols from tree barks: I. Syntheses of diarylheptanoids. II. Characterization of some Douglas-fir tannins.
- 1030 **Johnson, Donna A.** The effect of forest stand thinning on selected strength and pulp-ing characteristics of Douglas-fir.
- 1031 **Lowell, Eini Carole.** Fluorescence microscopy for detecting incipient decay and estimating residual strength of wood.
- 1032 **Parker, Robert John.** The effect of synthesis variables on composition and reactivity of phenol-formaldehyde resins.
- 1033 **Smith, Susan M.** Evaluating radial compression, color indicator and micro-toughness tests to detect early decay in Douglas-fir.
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- 1034 **Fernandez, Virgilio Asuncion.** Model and procedure for determination of strength and stiffness of wood studs.
- 1035 **Lei, Young-kong.** On the fracture mechanics of oriented flake-board.
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- 1036 **Kiatrajai, Preecha.** Reaction of (+)-catechin with formaldehyde: kinetics and molecular weight distribution.
- 1037 **Vital, Benedito Rocha.** Dimensional stability and water adsorption of flakeboard and particleboard as related to furnish geometry, board specific gravity, and resin type.
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- 1038 **Dougal, Edward Francis.** Ultrastructure of parenchyma and sclereids in Douglas-fir (*Pseudotsuga menziesii*(Mirb.)Franco) bark.
- 1039 **Gibson, Mark Dariel.** The relation of wood structure and strain energy release rate in fractured wood-glue composites.
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- 1040 **Askren, Catherine Anita.** Evaluation of the oscilloscope technique for detection of dormancy and survival po the interior Coast Range of Oregon.
- 1044 **Howard, Kerry Megan.** The influence of seral Coast Range vegetation on the growth habit of juvenile Douglas-fir.
- 1045 **Kilpatrick, Kran James.** Starch content and crown growth in two Douglas-fir stands.
- 1046 **Morris, John W.** Growth and moisture relations of western hemlock seedlings as affected by root or shoot disturbance.
- 1047 **Scurlock, John Hart.** A study estimating seed potential of Noble fir (*Abies procera* Rehd.), and several factors affecting its seed production.
- 1048 **Súne, Robert Allen.** Genetic variation in growth potential of black cottonwood in the Willamette Valley.
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- 1049 **Lawson, Thomas Taylor.** Some silvicultural impacts of *Phellinus weirii* on a managed forest in the interior Coast Range of Oregon.
- 1050 **Murphy, Ellyn Margaret.** Diurnal and seasonal changes in xylem water potential, stomatal conductance and abscisic acid in five different habitat types of Douglas-fir (*Pseudotsuga menziesii* (Mirb.) Franco).
- 1051 **Thompson, Barbara Ellen.** Root regeneration potential in Douglas fir and Western hemlock seedlings: the role of environmental factors and current photosynthesis.
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- 1052 **Alexander, Joseph Richard.** Nitrogen status in Oregon Coast Range forest communities.
- 1053 **Dolan, Linda Sutliff.** The estimation and significance of sapwood basal area in young Douglas-fir stands.
- 1054 **Fischer, James W.** The effects of shade level and irrigation regime on conditioning container-grown *Abies* seedlings for fall planting.
- 1055 **Hyland, Steven Coolidge.** Monoterpene composition: response to stress in lodgepole pine seedlings.
- 1056 **Koonce, Andrea Lavender.** Stress response as a basis for disease susceptibility in Ponderosa Pine.
- 1057 **Loferski, Karen L. Southward.** A technique for the measurement of gibberellins and its application to the xylem sap of Douglas-fir [*Pseudotsuga menziesii* (Mirb.) Franco].
- 1058 **McCandlish, Brooks.** Leaf area index and productivity in eastern Washington forests.
- 1059 **Meyer, Michele Marie.** Ectomycorrhizal populations on a chronosequence of disturbed areas in the central Cascades.
- 1060 **Oren, Ram.** Stand sapwood basal area: an indicator of tree vigor.
- 1061 **Petersen, Terry DeWayne.** First-year response of Douglas-fir after release from snowbrush *ceanothus*.
- 1062 **Smith, Robert Bruce.** Seasonal variation in leaf weight and nitrogen content of Douglas-fir plantations in the Coast Range and Cascade Mountains of western Oregon.
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- 1063 **McDonald, Philip M.** Silviculture-ecology of three native California hardwoods on high sites in north central California.
- 1064 **Pope, Walter William.** Geographic and seasonal variation in photosynthetic efficiency and capacity of Rocky Mountain Douglas-fir, *Pseudotsuga menziesii* var. *glauca*.
- Forest Science—DOCTORS 1979**
- 1065 **Gholz, Henry Lewis.** Limits on aboveground net primary production, leaf area, and biomass in vegetational zones of the Pacific Northwest.
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- 1066 **Kuser, John E.** Provenance variation in Western hemlock (*Tsuga heterophylla* (Raf.) Sarg.) seedlings.
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- 1067 **Alaback, Paul B.** Biomass and production of understory vegetation in seral sitka spruce-western hemlock forests of southeast Alaska.
- 1068 **Binder, Wolfgang Dieter.** Survival and some physiological aspects of tissue cultured cells from Douglas-fir (*Pseudotsuga menziesii* Mirb. (Franco)) and a poplar hybrid after freezing to liquid nitrogen temperature.
- 1069 **Bormann, Bernard Thomas.** Stand density in young red alder plantations: production, photosynthate partitioning, nitrogen fixation, and an optimal initial spacing model.
- 1070 **Duryea, Mary Louise.** Water relations, growth and survival of root-wrenched Douglas-fir seedlings.
- 1071 **Gill, Ranjit Singh.** Factors affecting nitrogen nutrition of western hemlock.
- 1072 **Helgerson, Ole Terrence.** Nitrogen fixation by scotch broom (*Cytisus scoparius* L.) and red alder (*Alnus rubra* Bong.) planted under precommercially thinned Douglas fir (*Pseudotsuga menziesii* (Mirb.) Franco).
- 1073 **Johnson, Jon Dale.** Environmental and physiological control of stomates in douglas-fir and other species.
- 1074 **Ungs, Michael James.** Distribution of light within the crown of an open-grown Douglas-fir.
- 1075 **White, Timothy Lee.** Genecology of Douglas-fir from south-western Oregon.
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- 1076 **Binkley, Dan.** Case studies of red alder and Sitka alder in Douglas-fir plantations: nitrogen fixation and ecosystem production.
- 1077 **Santantonio, Daniel.** Production and turnover of fine roots of mature Douglas-fir in relation to site.
- 1078 **Thompson, David George.** Effect of auxins, cytokinins and nutrition on adventitious bud formation in tissues of Douglas-fir grown in culture.
- 1079 **Zedaker, Sheperd M.** Growth and development of young Douglas-fir in relation to intra- and inter-specific competition.
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- 1080 **Cline, Steven Paul.** The characteristics and dynamics of snags in Douglas-fir forests of the Oregon Coast Range.
- 1081 **Cobb, Jimmie Osborn.** Some strategies for controlling the Douglas-fir tussock moth by regulation of budbreak.

- 1082 **Hallgren, Stephen William.** Plant-water relations in Douglas-fir seedlings and screening selected families for drought resistance.
- 1083 **Kelpas, Bruce Robert.** Comparative effects of chemical, fire, and machine site preparation in an Oregon coastal brushfield.
- 1084 **Malavasi, Ubirajara Contro.** Early plant biomass trends following forest site preparation on the Oregon Coast Range.
- 1085 **Newville, Edward G.** Abscisic acid levels in relation to stomatal behavior during drought and recovery in contrasting ecotypes of Douglas-fir (*Pseudotsuga menziesii* (Mirb.) Franco).
- 1086 **Temmes, Eeva Karin Marianna.** The quantity and composition of ground vegetation in different light environments under a Douglas-fir, *Pseudotsuga menziesii* (Mirb) Franco, stand in the Oregon Coast Range.
- 1087 **Williamson, Denis M.** Evaluation of factors associated with reforestation problems on severe sites in the Dead Indian area of southwestern Oregon.

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- 1088 **Nelson, Eric Alan.** The physiology of dormancy of western hemlock (*Tsuga heterophylla* (Raf.) Sarg.) seedlings.
- 1089 **Stevens, Roderick D.** Variation in the foliar nutrient status of several Douglas-fir provenances.

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- 1090 **Campbell, Carol Lee.** Effects of fractionated radiation doses on survival times of the newt (*Taricha granulosa*).
- 1091 **Currey, Linda Lorraine.** The Oregon eugenic movement: Bethenia Angelina Owens-Adair.
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- 1094 **Karanas, James J.** Exposure to ultraviolet-B radiation: sensitivity evaluation of an important ecological parameter of the marine copepod *Acartia clausi*.
- 1095 **Kreitlow, Jean Louise.** Play behavior in the golden hamster.
- 1096 **Specker, Jennifer Lee.** Reproductive cycle of the male newt *Taricha granulosa*: exogenous and endogenous regulation of plasma androgens.
- 1097 **Trenholm, Steve Ray.** Effects of X- and gamma irradiation on the juvenile pacific oyster, *Crassostrea gigas*.
- 1098 **Whitfield, Stephen Curtiss.** Some possible roles for selenium in the reproductive physiology of the male graytailed vole (*Microtus canicaudus*).

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- 1099 **Bunting, Diane Leigh.** An evaluation of benzo(a)pyrene metabolism in an oyster (*Ostrea edulis*)-bacteria system.
- 1100 **Dobson, Christopher Michael.** Lamarck's approach to an understanding of man.
- 1101 **Doerge, Katherine Fortner.** Aspects of the geographic ecology of the Acorn Woodpecker (*Melanerpes formicivorus*).
- 1102 **McCormack, Christine.** Role of male mating behavior in the induction of ovulation in rough-skinned newts, *Taricha granulosa*.

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- 1103 **Bickford, Carol E.** Aspects of the social structure of the California ground squirrel (*Spermophilus beecheyi*) in western Oregon.
- 1104 **Wolniakowski, Krystyna U.** The physiological response of a marine phytoplankton species, *Dunaliella tertiolecta* to mid-wavelength ultraviolet radiation.
- 1105 **Zoeller, Robert Thomas.** Endocrine regulation of male sexual behavior in rough-skinned newts, *Taricha granulosa*: role of neurohormones.

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- 1106 **Chalker, Linda Kay.** Sensitivity of the marine copepod *Tigriopus californicus* to ultraviolet-B (290-320 nm) radiation.
- 1107 **Sotillo, Vidal Eliezer.** Urinary metabolites of brominated fatty acids—identification and kinetics in rats.

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- 1108 **Besar, Idris Bin.** Installation, calibration and independent verification of the performance of a primary water radioactivity monitor in a one megawatt TRIGA research reactor.

- 1109 **Dunn, Julie Ellen.** Development of a marine bioassay system using the gooseneck barnacle, *Pollicipes polymerus*.
- 1110 **Hevland, Mark.** Radiotechnetium as an environmental contaminant: its metabolism by two freshwater species, the pearl mussel (*Margaritifera margaritifera*) and the rough-skinned newt (*Taricha granulosa*).
- 1111 **Michaelis, Barbara.** The lethal response of the roughskin newt, *Taricha granulosa* (Skilton), to ultraviolet-B radiation at three fluence rates.
- 1112 **Scott, James Douglas.** Physiological responses of the marine phytoplankton *Dunaliella tertiolecta* to UV-B enhanced solar radiation.
- 1113 **Sigismondi, Linda Ann.** The accumulation of cadmium, copper and nickel in freshwater mussels (*Margaritifera margaritifera*), algae (*Cladophora* sp.), and sediment from Elk Creek, Oregon.

#### General Science—DOCTORS 1978

- 1114 **Beeson, Roberta Jane.** Bridging the gap: the problem of vertebrate ancestry, 1859-1875.
- 1115 **Schoepflin, Gary Lee.** Denison Olmsted (1791-1859), scientist, teacher, Christian: a biographical study of the connection of science with religion in antebellum America.
- 1116 **Vessel, Richard Douglas.** Energetics of the belted kingfisher (*Megaceryle alcyon*).

#### General Science—DOCTORS 1979

- 1117 **Benson, Keith Rodney.** William Keith Brooks (1848-1908): a case study in morphology and the development of American biology.
- 1118 **Christopher, John Paul.** Biochemical effects of tumorigenic enhancers.
- 1119 **Lester, Jacob Franklin.** John Fiske's philosophy of science: the union of science and religion through the principle of evolution.
- 1120 **Riley, Ronald Thomas.** The effect of chemical perturbation by naphthalene on glucose metabolism in the European flat oyster (*Ostrea edulis*): an in vivo kinetic analysis.

#### General Science—DOCTORS 1980

- 1121 **Moehring, Mary Pamela.** Influence of ultraviolet- $\beta$  radiation on the heterotrophic activity of estuarine bacterioplankton.

#### General Science—DOCTORS 1981

- 1122 **La Touche, Yves David.** Trace metal levels in a population of *Mytilus edulis* from Yaquina Bay, Oregon.
- 1123 **Pond, Finn Richard.** Selenium-75 incorporation in semen and reproductive organs of the bull and ram.

#### General Science—DOCTORS 1982

- 1124 **Hagen, Joel Bartholemew.** Experimental taxonomy, 1930-1950: the impact of cytology, ecology, and genetics on ideas of biological classification.
- 1125 **Hellman, Walter Daniel.** Norbert Wiener and the growth of negative feedback in scientific explanation: with a proposed research program of cybernetic analysis.

#### Genetics—DOCTORS 1981

- 1126 **Curiale, Michael Steven.** Physical properties and genetic studies of cryptic plasmids discovered in plant pathogenic pseudomonads.

#### Geography—MASTERS 1978

- 1127 **Cordill, M. Kim.** Competition for water: federal-state conflicts in the Klamath Basin, Oregon.
- 1128 **Schuller, S. Reid.** Vegetation ecology of selected mountain hemlock (*Tsuga mertensiana*) communities along the eastern High Cascades, Oregon.

#### Geography—MASTERS 1979

- 1129 **Bell, James W.** Side looking airborne radar mapping of wave refraction patterns at the mouth of the Columbia River.
- 1130 **Krupin, Paul J.** Quantitative basin morphology and channel stability with reference to nonpoint sources of pollution in Evans Creek, Oregon.
- 1131 **Troseth, Steven.** Cartographic and projective techniques for a Corvallis area electrical load forecast.

#### Geography—MASTERS 1980

- 1132 **Burke, Constance J.** Historic fires in the central Western Cascades, Oregon.

- 1133 **Rademacher, Christopher L.** Morphometric properties of nivation hollows on Hart Mountain, Lake County, Oregon.
- 1134 **Taylor, Alan H.** Plant communities and elevation in the diked portion of Joe Ney Slough: a baseline assessment of a marsh restoration project in Coos Bay, Oregon.
- Geography—MASTERS 1981**
- 1135 **Danley, Mark Stephen.** Resource allocation and the ability to pay: a case study of float permits in Hells Canyon.
- 1136 **Marion, Daniel A.** Landslide occurrence in the Blue River Drainage, Oregon.
- Geography—MASTERS 1982**
- 1137 **Beach, Gary L.** Geographical geomorphology: historical development, contemporary problems, and future prospects.
- 1138 **Bilton, Janet Leone.** Comparison of soil and vegetation map delineation shapes and areal correspondence.
- 1139 **Lieuwen, Andrew L.** Estimating streamflow characteristics for micro-hydro sites in northwestern Oregon.
- 1140 **Liverman, Marc C.** Multivariate analysis of a tidal marsh ecosystem at Netarts Spit, Tillamook County, Oregon.
- Geography—DOCTORS 1978**
- 1141 **Armstrong, Helen Jane.** Criteria for the selection of maps for a basic college map collection including an annotated carto-bibliography.
- 1142 **Hawley, David Llewellyn.** An assessment of southern Oregon clearcut and shelterwood cut cover types using LANDSAT MSS digital and supporting aircraft data.
- 1143 **Hodler, Thomas William.** Remote sensing applications in hydrogeothermal exploration of the northern Basin and Range province.
- 1144 **Van Otten, George A.** Spatial expressions of farm size changes in the Polk and Linn counties of Oregon.
- 1145 **Walsh, Stephen J.** An investigation into the comparative utility of color infrared aerial photography and LANDSAT data for detailed surface cover type mapping within Crater Lake National Park, Oregon.
- Geography—DOCTORS 1979**
- 1146 **Furuseth, Owen James.** Selected factors affecting the pattern of agricultural land conversion in Washington County, Oregon, 1963-1973.
- 1147 **Hartsook, Thomas Edward.** Factors affecting rural land value in the central coastal zone of Oregon.
- 1148 **Tolle, Timothy Victor.** Watershed and climate influences on flood frequency distributions in the Willamette River basin.
- 1149 **Wilkins, John Russell.** Selected effects of additional irrigation in the Columbia Basin: a multiregional interindustry analysis.
- Geography—DOCTORS 1980**
- 1150 **Alsop, Ted J.** Topothermal climatic zones on the surface of the Pacific Northwest in Oregon and Washington.
- 1151 **Bauer, Webb Sterling.** A case analysis of Oregon's Willamette River Greenway Program.
- 1152 **Emison, John Avery.** Participation of farm operators in public land conservation programs in the Cypress Creek Basin of Crockett County, Tennessee.
- 1153 **Grant, Roland Lester.** A statistical analysis of extreme chinooks in Montana as they relate to large scale circulation changes.
- 1154 **Marston, Richard A.** The geomorphic significance of log steps in forest streams of the Oregon Coast Range.
- 1155 **McDowell, Theodore R.** Geographic variations in water quality and recreational use along the upper Willowa River and selected tributaries.
- 1156 **Nellis, Marvin Duane.** Water management in the North Deschutes unit irrigation district: geographic perspectives and remote sensing applications.
- 1157 **Rabii, Hassan Alizadeh.** An investigation of the utility of Landsat 2 MSS data to the fire-danger rating area, and forest fuel analysis within Crater Lake National Park, Oregon.
- 1158 **Rathburn, Arthur Cristen.** A framework for the determination of the suitability of undeveloped land in the intermountain west for use as cropland.
- 1159 **Tsutsui, Setsuo Harry.** Oregon's Mid-Willamette Valley wetlands: agricultural uses, alternative uses, problems and trends.
- Geography—DOCTORS 1981**
- 1160 **Hamilton, William L.** An investigation into modeling snow cover elements at Crater Lake National Park and surrounding environs as an improved ground truth method for satellite snow observations.
- 1161 **Naim, Shamim.** Identification of irrigation practices using photographic and optical-mechanical scanning remote sensing techniques.
- Geography—DOCTORS 1982**
- 1162 **Roberts, Rebecca Sue.** The effects of large-lot zoning on the single-family housing market.
- 1163 **Smith, Harold Gregory.** Growth modeling for conifer regeneration in the northeastern Sierra Nevada of California.
- Geology—MASTERS 1978**
- 1164 **Barnes, Thomas John.** Geology of the Sand Mountain area, Western Wheeler County, Oregon.
- 1165 **Coryell, George Fossas.** Stratigraphy, sedimentation, and petrology of the Tertiary rocks in the Bear Creek-Wickiup Mountain-Big Creek area, Clatsop County, Oregon.
- 1166 **Dotter, Jay Albert.** Prairie mountain lakes area, SE Skagit County, Washington: structural geology, sedimentary petrography, and magnetics.
- 1167 **Fiske, Douglas A.** Stratigraphy, sedimentology, and structure of the Late Cretaceous Nanaimo Group, Hornby Island, British Columbia, Canada.
- 1168 **Hodges, Wade Allan.** Igneous petrology, structural geology, and mineralization of the central part of the Bayhorse Mining District, Custer County, Idaho.
- 1169 **Huggins, Jonathan Wayne.** Geology of a portion of the Painted Hills Quadrangle, Wheeler County, north-central Oregon.
- 1170 **Jenne, David Allen.** Structural geology and metamorphic petrology of the Gold Mountain area, Snohomish County, Washington.
- 1171 **Klanderman, David S.** Stratigraphy, structure, and depositional environments of the Antelope Mountain Quartzite, Yreka, California.
- 1172 **Nelson, Michael Peter.** Tertiary stratigraphy and sedimentation in the Young's River -Lewis and Clark River area, Clatsop County, Oregon.
- 1173 **Olson, Gregory A.** Geology of the Grouse Creek area, China Mountain Quadrangle, California.
- 1174 **Owen, Philip C.** An examination of the Clarno Formation in the vicinity of the Mitchell Fault, Lawson Mountain and Stephenson Mountain Area, Jefferson and Wheeler Counties, Oregon.
- 1175 **Schalla, Robert Allen.** Paleozoic stratigraphy of the southern Mahogany Hills, Eureka County, Nevada.
- 1176 **Schaubs, Michael Paul.** Geology and mineral deposits of the Bohemia Mining District, Lane County, Oregon.
- 1177 **Storch, Sara Glen Power.** Geology of the Blue River Mining District, Linn and Lane Counties, Oregon.
- Geology—MASTERS 1979**
- 1178 **Allmaras, Joan Marian.** Stratigraphy and sedimentology of the Late Cretaceous Nanaimo Group, Denman Island, British Columbia.
- 1179 **Cunningham, Cynthia Taylor.** Geology and geochemistry of a massive sulfide deposit and associated volcanic rocks, Blue Creek district, southwestern Oregon.
- 1180 **Drake, Edwin A.** Paleozoic stratigraphy of the Devils Gate—northern Mahogany Hills area, Eureka County, Nevada.
- 1181 **Kachelmeyer, John Michael.** Bedrock geology of the North Saanich-Cobble Hill area, British Columbia, Canada.
- 1182 **Mullen, Ellen Domaratius.** Geology of the Greenhorn Mountains, northeastern Oregon.
- 1183 **Olson, James P.** Geology and mineralization of the North Santiam Mining District, Marion County, Oregon.
- 1184 **Peargin, Thomas Reece.** Ordovician to Silurian stratigraphy of part of the north-central Monitor Range, Nye County, Nevada.
- 1185 **Schriener, Alexander.** Geology and mineralization of the north part of the Washougal Mining District, Skamania County, Washington.
- 1186 **Trojan, William R.** Devonian stratigraphy and depositional environments of the Northern Antelope Range, Eureka County, Nevada.

### Geology—MASTERS 1980

- 1187 **Bailey, Mark Hopkins.** Bedrock geology of western Taylor Park, Gunnison County, Colorado.
- 1188 **Cranswick, Mark Scott.** The stratigraphy, structure, and petrography of Keyes Mountain, tertiary upper Clarno formation, Wheeler County, Oregon.
- 1189 **Jakes, Mary Clare.** Surface and subsurface geology of the Camarillo and Las Posas Hills area, Ventura County, California.
- 1190 **McDougall, James William.** Geology and structural evolution of the Foss River-Deception Creek area, Cascade Mountains, Washington.
- 1191 **Piegras, Donald J.** The isotopic composition of neodymium in different ocean masses.
- 1192 **Ruddiman, William.** The geology and stratigraphy of the lower Nanaimo group, Nanaimo, British Columbia.
- 1193 **Shepard, Richard James.** Geology and mineralization of the Southern Silver Star Stock, Washougal Mining District, Skamania County, Washington.
- 1194 **Stroh, Harold Raymond.** Geology of the Clarno Formation in the vicinity of Stephenson Mountain, Jefferson, Crook and Wheeler counties, Oregon.

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- 1195 **Doucette, John.** The geology of the Copper Chief Prospect, Mineral County, Nevada.
- 1196 **Ehret, Gayle Ann.** Structural analysis of the John Day and Mitchell fault zones, North-Central Oregon.
- 1197 **Hildreth, Gail Darice.** The bedrock geology and stratigraphy of the Mississippian and early Pennsylvanian rocks of the southeast flank, Armstead anticline, Beaverhead County, Montana.
- 1198 **Jackson, Patrick A.** Structural evolution of the Carpinteria Basin, Western Transverse Ranges, California.
- 1199 **Jarvis, Linda Jane.** Lower and Middle Devonian stratigraphy and depositional environments of the Sheep, Desert, Pintwater, and Spotted Ranges, Northern Clark County, Nevada.
- 1200 **Klecker, Richard Alan.** Stratigraphy and structure of Dixon Mountain-Little Water Canyon area Beaverhead County, Montana.
- 1201 **McCarter, Paul.** Geology and mineralization of the Lateral Lake Stock, District of Kenora, northwestern Ontario.
- 1202 **Mitchell, Terry Edward.** Uranium mineralization of the metamorphic aureole of the Spirit pluton, Stevens County, Washington.
- 1203 **Murphy, Thomas M.** The geology of the Nicolai Mountain-Gnat Creek area, Clatsop County, northwestern Oregon.
- 1204 **Pendergast, Margaret Anne.** Devonian and Mississippian stratigraphy of the Swales Mountain area, Elko County, Nevada.
- 1205 **Sadler, R. Kumble.** Structure and stratigraphy of the Little Sheep Creek area, Beaverhead County, Montana.
- 1206 **Schulz, Michael Gerhard.** The quantification of soil mass movements and their relationship to bedrock geology in the Bull Run Watershed, Multnomah and Clackamas Counties, Oregon.
- 1207 **Stitt, Leonard Timothy.** Geology of the Ventura and Soledad Basins in the vicinity of Castaic, Los Angeles County, California.
- 1208 **Thomas, Thomas Holbeck.** Geology and mineral deposits of the Coyote Hills mining district, Lake County, Oregon.
- 1209 **Weidenheim, Jan Peter.** The petrography, structure, and stratigraphy of Powell Buttes, Crook County, central Oregon.

### Geology—MASTERS 1982

- 1210 **Brown, James Oliver.** Search for a western North American stratotype for the Lower-Middle Devonian boundary in Eureka County, Nevada.
- 1211 **Fahlstrom, Beverly Edlyn.** Stratigraphy and depositional history of the Cretaceous Nanaimo Group of the Chemainus area, British Columbia.
- 1212 **Fifarek, Richard H.** Geology and mineralization of the Banfield and Rowley volcanogenic massive sulfide deposits, Douglas Co., Oregon.
- 1213 **Freeman, Lawrence K.** Geology and tectonic mineralization of the South Mountain mining district, Owyhee County, southwest Idaho.
- 1214 **Hanson, David Wayne.** Surface and subsurface geology of the Simi Valley area, Ventura County, California.
- 1215 **Heironimus, Thurman L.** Biostratigraphy, depositional environments, and paleogeography of Lower and Middle Devonian rocks, Death Valley area, California.

- 1216 **Hicks, Bryan A.** Geology, geomorphology, and dynamics of mass movement in parts of the Middle Santiam River drainage basin, western Cascades, Oregon.
- 1217 **Hillesland, Larry L.** The geology, mineralization and geochemistry of the Pine Creek area, Lemhi County, Idaho.
- 1218 **Hook, Richard.** The volcanic stratigraphy of the Mickey Hot Springs area, Harney County, Oregon.
- 1219 **Stockman, Alan Owen.** Bedrock geology and structure of the Murderers Creek Area, Grant County, Oregon.
- 1220 **Wozniak, Karl C.** Geology of the northern part of the Southeast Three Sisters quadrangle, Oregon.

### Geology—DOCTORS 1978

- 1221 **Rohr, David M.** Stratigraphy, structure, and Early Paleozoic Gastropoda of the Callahan Area, Klamath Mountains, California.

### Geology—DOCTORS 1979

- 1222 **De Keyser, Thomas Lee.** The early Mississippian of the Sacramento Mountains, New Mexico: an ecofacies model for carbonate shelf margin deposition.
- 1223 **Koch, William Frederick.** Brachiopod paleoecology, paleobiogeography, and biostratigraphy in the upper Middle Devonian of Eastern North America: an ecofacies model for the Appalachian, Michigan, and Illinois Basins.

### Geology—DOCTORS 1980

- 1224 **Mikulic, Donald G.** The paleoecology of Silurian trilobites with a section on the Silurian stratigraphy of southeastern Wisconsin.
- 1225 **Nelson, Dennis O.** Strontium isotopic and trace element geochemistry of the Saddle Mountains and Grande Ronde basalts of the Columbia River basalt group.
- 1226 **Priest, George R.** Geology and geochemistry of the Little Walker Volcanic Center, Mono County, California.

### Geology—DOCTORS 1981

- 1227 **Briskey, Joseph A.** Geology, petrology, and geochemistry of the Jersey, East Jersey, Huestis, and Iona porphyry copper-molybdenum deposits, Highland Valley, British Columbia.
- 1228 **Cooper, David Michael.** Sedimentation, stratigraphy and facies variation of the lower to middle Miocene Astoria Formation in Oregon.

### Geophysics—MASTERS 1978

- 1229 **Coperude, Shane Patrick.** Geologic structure of the western continental margin of south central Baja California based on seismic and potential field data.
- 1230 **Plawman, Thomas Leon.** Crustal structure of the Continental Borderland and the adjacent portion of Baja California between latitudes 30°N and 33°N.
- 1231 **Thrasher, Glenn P.** Median valley crustal structure and sea floor spreading at the Gorda Ridge, 42°N latitude.

### Geophysics—MASTERS 1979

- 1232 **Bée, Michel.** Marine seismic refraction study between Cape Simpson and Prudhoe Bay, Alaska.
- 1233 **Boler, Frances M.** Aeromagnetic measurements, magnetic source depths, and the Curie point isotherm in the Vale-Owyhee, Oregon geothermal area.
- 1234 **Briceno-Guarupe, Luis Alberto.** The crustal structure and tectonic framework of the Gulf of Panama.
- 1235 **Keser, Judith.** Wide-angle seismic refraction and reflection studies of the northern California and southern Oregon continental margins.
- 1236 **Pitts, Gerald Stephen.** Interpretation of gravity measurements made in the Cascade Mountains and adjoining basin and range province in central Oregon.

### Geophysics—MASTERS 1980

- 1237 **Connard, Gerald George.** Analysis of aeromagnetic measurements from the Central Oregon Cascades.

### Geophysics—MASTERS 1981

- 1238 **Avera, William Edgar.** Iterative techniques in linearized free surface flow.
- 1239 **Axelsson, Gudni.** Tidal tilt observations in the Krafla geothermal area in North Iceland.
- 1240 **Braman, Dave E.** Interpretation of gravity anomalies observed in the Cascade Mountain province of Northern Oregon.

- 1241 **Cook, Jeffrey A.** Sonobuoy refraction study of the crust in the Gorda Basin.
- 1242 **Sanchez Zamora, Osvaldo.** Gravity and structure of the Pacific continental margin of Central Mexico.

#### Geophysics—MASTERS 1982

- 1243 **McLain, William Henry.** Geothermal and structural implications of magnetic anomalies observed over the southern Oregon Cascade Mountains and adjoining Basin and Range province.
- 1244 **Solano-Borrego, Ariel E.** Microseismicity on the Gorda Ridge.
- 1245 **Veen, Cynthia A.** Gravity anomalies and their structural implications for the southern Oregon Cascade Mountains and adjoining Basin and Range province.

#### Geophysics—DOCTORS 1978

- 1246 **Hanson, Jonathan Mackey.** Heat transfer effects in forced geoheat recovery systems.

#### Geophysics—DOCTORS 1979

- 1247 **Calderón, Gustavo.** A marine geophysical study of Vizcaino Bay and the continental margins of western Mexico between 27° and 30° north latitude.
- 1248 **Jones, Paul Roy.** Seismic ray trace techniques applied to the determination of crustal structures across the Peru continental margin and Nazca plate at 9°S. latitude.
- 1249 **Shyu, Chuen Tien.** Numerical analysis of critical field functions for thermal convection in vertical or quasi-vertical Darcy flow slabs.
- 1250 **Wrolstad, Keith H.** Applications of source signature deconvolution to airgun seismic profiling and the measurement of attenuation from reflection seismograms.

#### Guidance and Counseling

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#### Health—MASTERS 1980

- 1251 **Maritim, Gabriel Kipngeno.** A comparison of watershed contamination between a sewered and an unsewered community.

#### Health—DOCTORS 1980

- 1252 **Flow, Douglas L.** A comparison of two smoking cessation techniques conducted in an occupational setting.
- 1253 **Hughes, Colleen Constance Carris.** A comparison of braille and compressed speech as learning modes for legally blind adults.

#### Health Education—MASTERS 1978

- 1254 **Zimmerman, Richard Orin.** Biorhythms' relation to industrial accidents.

#### Health Education—MASTERS 1979

- 1255 **Healey, John Patrick.** A comparison of noise environments between offices of Langton Hall and other offices on the Oregon State University campus.

#### Home Management—MASTERS 1978

- 1256 **Gregerson, Donna Marie.** Child support contributions made by divorced male and female parents to the direct consumption costs of dependent children.

#### Horticulture—MASTERS 1978

- 1257 **Call, Christopher A.** Enhanced rooting of *Arctostaphylos uvaursi* 'Oregon Hybrid' with ectomycorrhizal fungi.
- 1258 **Cobb, Cheryl Anne.** Water relations and the root regeneration response of Douglas-fir.
- 1259 **Ma, Mei-hwa Wang.** Effects of inoculation with rhizobium and nitrogen fertilizer on snap beans, soybeans and lima beans.
- 1260 **Nissila, Peter Carl.** Hardiness-maturity relations in red-osier dogwood (*Cornus stolonifera* Michx.).
- 1261 **Pelofske, Peter Joseph.** Inheritance of internode length, plant form and biennial habit in a cross of cabbage (*Brassica oleracea* L. Capitata group) x broccoli (*Italica* group).
- 1262 **Seibel, Janice Rose.** Ethylene production, vegetative maturity, and winter dormancy in red-osier dogwood.
- 1263 **Simon, James Edward.** Response of selected vegetables to various inorganic and organic nutrient sources.
- 1264 **Yin, Yun-fu.** The effect of bud self pollination, open flower self pollination, and cross pollination on the field characteristics of broccoli progenies.

#### Horticulture—MASTERS 1979

- 1265 **Bubl, Charles Edward.** The chemical curing of Oregon Danvers onions.
- 1266 **Rabakoarihanta, Aimee.** The expression and inheritance of a leaf distortion in the common bean *Phaseolus vulgaris* L.
- 1267 **Tatchell, Sara Patterson.** The relationship between resistance to a severe strain (BYMV-S) and the type strain (BYMV) of bean yellow mosaic virus in *Phaseolus vulgaris* L.
- 1268 **Wong, Yueh-mei.** Effects of harvest date on sweet corn maturity, sugar content and yield.

#### Horticulture—MASTERS 1980

- 1269 **Davis, Tim D.** The effects of light on photosynthesis and rooting of leafy cuttings of *Pisum sativum* L.
- 1270 **Kelley, John Robert.** An analysis of the effects of Boron and plant growth regulators on flower development in Filbert, *Corylus avellana* L.
- 1271 **Maul, Jerry Lee.** A phosphorus nutrition study of apples on a volcanic ash soil.
- 1272 **Parmelee, Kathleen Ann.** The relationship of electrical impedance to vegetative maturity and dormancy in red-osier dogwood.

#### Horticulture—MASTERS 1981

- 1273 **Boonyakiat, Danai.** Factors affecting storage of Yellow Globe Danvers onion: abscisic acid during maturation and storage and phenolic substances inhibitory to *Botrytis allii* and *Botrytis cinerea*.
- 1274 **Decker, Bruce Richard.** Factors affecting survival and vigor of cold-stored strawberry nursery stock.
- 1275 **Romines, Marsha Lynn.** Influencing flower initiation and flower cluster set in the Barcelona filbert with growth regulators.
- 1276 **Wang, Yin-tung.** The influence of air and soil temperatures on the growth and development of Easter lily, *Lilium longiflorum*, during different growth phases.

#### Horticulture—MASTERS 1982

- 1277 **Chyau, Anna Tai-yung.** Herbicidal effect of glyphosate as influenced by spray drop size.
- 1278 **Nussbaum, Emily S.** Propagation of the filbert, *Corylus avellana* L. by seedage and graftage.
- 1279 **Robbins, Scott H.** Pressure trunk injections of potassium as a possible short term corrective measure for potassium deficiency in sweet cherry (*Prunus avium* L.) and prune (*Prunus domestica* L.).
- 1280 **Sisson, Jonathan Anthony.** The effects of planting date, nitrogen and boron application on mineral element concentration, yield, dry weight and fresh weight of sweet corn.

#### Horticulture—DOCTORS 1978

- 1281 **Al-Ani, Abdullah Mokhlif.** Postharvest physiology of 'Anjou' pear fruit: relations between mineral nutrition and cork spot, respiration, and ethylene evolution.

#### Horticulture—DOCTORS 1979

- 1282 **Strang, John G.** Frost hardiness of buds, flowers and fruit of pear (*Pyrus communis* L.).
- 1283 **Waters, Luther.** Carbohydrate and photosynthate distribution and nitrogen fixation in beans (*Phaseolus vulgaris* L.).

#### Horticulture—DOCTORS 1980

- 1284 **Starbuck, Christopher J.** The physiology of plagiotropic growth of rooted cuttings of Douglas-fir [*Pseudotsuga menziesii* (Mirb.) Franco].

#### Horticulture—DOCTORS 1981

- 1285 **Rabakoarihanta, Aimee.** Embryo development in relation to interspecific hybridization of *Phaseolus*.
- 1286 **Renquist, A. Richard.** Water relations of 'Olympus' strawberry and the growth response to drip irrigation and polyethylene mulch.
- 1287 **Shii, Chou Tou.** Developmental mutants of *Phaseolus vulgaris* L.

#### Horticulture—DOCTORS 1982

- 1288 **Brainerd, Kim Ethel.** Acclimatization of in vitro apple and plum trees to low relative humidity.
- 1289 **Kobayashi, Kent David.** Modeling of dormancy and cold hardiness in red-osier dogwood (*Cornus sericea* L.).

- 1290 **Mauk, Craighton Stiles.** Influence of irrigation and plant population on yield parameters, flower and pod abscission, and photosynthate distribution in snap beans, *Phaseolus vulgaris* L.

#### **Human Development and Family Studies**

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#### **Human Development and Family Studies—DOCTORS 1982**

- 1291 **Lee, Jae Yeon.** Developmental aspects of the awareness of sex-trait stereotypes among Korean children.  
1292 **Reed, Michael L.** Reliability and validity of the observational form of the Child Behavior Checklist.

#### **Industrial and General Engineering**

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Industrial Engineering

#### **Industrial and General Engineering—DOCTORS 1979**

- 1293 **Chang, Chia-hao.** Multiperiod multiple-item dynamic lot sizing problem when discounts are available.  
1294 **Olsen, Eldon Dale.** Manpower pattern prediction for multi-project situations.

#### **Industrial Education—MASTERS 1981**

- 1295 **Nichols, Mitchell Riley.** The level of knowledge required in various manufacturing engineering competency areas in the state of Oregon.

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#### **Industrial Engineering—MASTERS 1978**

- 1296 **Chakravarty, Jyotirmoy.** Implementation of revised simplex Thompson algorithm on a limited core stand alone processor.  
1297 **Paradis, Garry Lynn.** A Bayesian model for the determination of optimal sampling intervals.  
1298 **Ryan, John Vincent.** A discrete multi-facility location analysis of a public sector office siting problem.  
1299 **Velazquez, Sergio Serrano.** Risk management in particleboard production system design: a simulation study of the stochastic optimization problem.  
1300 **Yum, Bong Jin.** Optimal allocation of screening inspection effort for nonserial production systems.

#### **Industrial Engineering—MASTERS 1979**

- 1301 **Miyakawa, Yoshihiro.** Development of network location algorithm for resource planning and management.

#### **Industrial Engineering—MASTERS 1980**

- 1302 **Anaya-Sánchez, Carlos G.** Prevailing opinions about productivity performance and improvement.  
1303 **Park, Tongkyu.** A matrix game approach to linear programming.  
1304 **Solis-Sarmina, Jaime.** Improved justifications and sensitivity analysis for capital expenditures.  
1305 **Tauscher, Valerie Faye.** The productivity performance of a paper mill operating during a labor strike.

#### **Industrial Engineering—MASTERS 1981**

- 1306 **Ng, George Kwok Wing.** Minimum cost scheduling of resource constrained jobs on parallel machines under control of interchangeable processors.  
1307 **Randhawa, Sabah.** A methodology for the economic evaluation of centralized versus decentralized automated component insertion.

#### **Industrial Engineering—MASTERS 1982**

- 1308 **Al-haboubi, Muhammad H.** The effect of job interruptions on human learning.  
1309 **Blanco-Duran, Rodolfo.** Applications of microprocessors in work measurement.  
1310 **Burnett, Daniel Rodger.** Intrafirm and interfirm productivity comparisons.  
1311 **Cuarón Ibarquengoytia, Roberto.** Comparison of inflation-sensitive depreciation methods.

- 1312 **Ding, Fei-fei.** Master-slave control system for a novel robot design.

- 1313 **Hanlen, Deborah G.** The development and implementation of team productivity training.

- 1314 **Khan, Mohammad Younas.** Increased throughput by aisle zoning in end-of-aisle order picking AS/R systems.

- 1315 **Martin, Gifford L.** A containership load planning heuristic for a transtainer based container port.

- 1316 **Turnblom, John Warren.** An approximation procedure for the allocation of inspection effort.

#### **Industrial Engineering—DOCTORS 1979**

- 1317 **McVicar, Robert William.** The sinking fund problem: optimal timing of bond purchases.

- 1318 **Ro, In Kyu.** Development of an information processing capacity estimation method for managing a project subjected to disruptions.

#### **Industrial Engineering—DOCTORS 1981**

- 1319 **Stavrakis, George D.** A general linear optimization algorithm based upon labeling and factorizing of basic paths on RPM network.

#### **Industrial Engineering—DOCTORS 1982**

- 1320 **Cho, Doug Woon.** Development of a methodology for containership load planning.

#### **Interdisciplinary Studies—MASTERS 1978**

- 1321 **Brant, William David.** Situational pressure, racial stereotypes, and conformity in laboratory aggression.

- 1322 **Carlson, Judith Carol.** Corvallis and Salem, Oregon newspapers in transition.

- 1323 **Carman, Betty Lou.** An attempted standardization of a reading and writing skills test used at Oregon State University's Communication Skills Center.

- 1324 **El-Ashban, Abdul Aziz.** The formation of capitalist market-relations in the Arab Middle-East.

- 1325 **Jewett, Susan E.** Drum languages and their messages.

- 1326 **Shinn, Dean Allison.** Man and the land: an ecological history of fire and grazing on eastern Oregon rangelands.

- 1327 **Snyder, Sandra Lee.** An osteo-archaeological investigation of pinniped remains at Seal Rock, Oregon (35 LNC 14).

- 1328 **Stoltz, Arleyn Winifred.** Pottery manufacture analysis: an experimental means for assessing technological continuity in the Altamont region.

- 1329 **Voit, Irene Elaine.** Employee theft: a study of the major sociological, economic and business causal theories.

#### **Interdisciplinary Studies—MASTERS 1979**

- 1330 **Couche, Stephen W.** An analysis of visitor awareness of avalanche danger at three areas, Mt. Hood, Oregon.

- 1331 **Eshbaugh, Dorothy L.** Community planning and adaptation: a case study at Corvallis, Oregon.

- 1332 **Flaherty, Virginia Carroll.** Schulenburg's Tsimshian grammar.

- 1333 **Mason, Sue Cockeram.** Differences between public attention and understanding of school budget formats published in newspapers.

- 1334 **Wilson, Bart McLean.** Salvage archaeology of the Ritsch Site, 35J04: a late prehistoric village site on the central Rogue River, Oregon.

#### **Interdisciplinary Studies—MASTERS 1980**

- 1335 **Browne, Beverly Ann.** Evaluating the quality of teaching in art: a social judgment analysis.

- 1336 **Draper, John Allen.** An analysis of lithic tools and debitage from 35CS1: a prehistoric site on the southern Oregon coast.

- 1337 **Michael, Elva Olson.** Governmental policies and the preservation and display of Native American cultural resources in the middle Columbia Basin.

- 1338 **Reed, Michael L.** The effects of electromyographic biofeedback on test anxiety and performance.

#### **Interdisciplinary Studies—MASTERS 1981**

- 1339 **Bell, James Walter.** Regional archaeological model of the Luckiamute Band settlement patterns.

- 1340 **Gehring, Maribeth Young.** A study of tinnitus patients with normal peripheral auditory systems.

- 1341 **Jones, Stephen Robert.** Family deed: a collection of original poetry.
- 1342 **LaLande, Jeffrey Max.** Sojourners in the Oregon Siskiyou: adaptation and acculturation of the Chinese miners in the Applegate Valley, CA. 1855-1900.
- 1343 **Nisbet, Robert Alexander.** The lanceolate projectile point in southwestern Oregon: a perspective from the Applegate River.
- 1344 **Possiel, William John.** Oregon's early peoples and their relation to the environment: an interpretive approach.
- 1345 **Shrestha, Ava.** Education, community development and cultural resistance in rural Nepal.
- 1346 **Stephenson, Garry Owen.** Pushing for the highline: the diffusion of innovations in the Oregon otter trawl fishery.
- 1347 **Van Marter, Janet.** Social change in Nepal: a case study.

#### Interdisciplinary Studies—MASTERS 1982

- 1348 **Barner, Debra Carol.** Shell and archaeology: an analysis of shell-fish procurement and utilization on the central Oregon coast.
- 1349 **Barnett, Richard Lee.** Public interest organization activity in environmental decisions: a case study of integrating source separation services into the Corvallis, Oregon, solid waste franchise.
- 1350 **Bewall, Douglas A.** Archeological testing at the Willamette Mission Hospital Site.
- 1351 **Espinosa M., Jorge E.** An exploratory study of social and personal identity of selected Anglo-American, Mexican-American, and Mexican National college students.
- 1352 **Goesch, Tamara Dawn.** A critique of the secondary literature on Weimar film: the importance of the Weimar film industry.
- 1353 **Hagerty, Dorothy Dean.** Individual society and adaptation in Edinburgh, Scotland, and the Massachusetts Bay Colony—1650.
- 1354 **Jenkins, Paul Christy.** Anthropological recovery, analysis and identification of historic burials in two Southern Oregon cemeteries.
- 1355 **MacDonald, Lynne Bright.** Analysis of two late-prehistoric archeological sites on the upper Applegate River of southern Oregon.
- 1356 **Otis, Alison Taylor.** Traditional medicine and self-determination in resolving mental health problems among southwest Oregon native Americans.
- 1357 **Pullen, Reginald John.** The identification of early prehistoric settlement patterns along the coast of southwest Oregon: a survey based upon amateur artifact collections.
- 1358 **Rihani, Ina Lee.** A comparative study of the relation among religion, development, and population policy in three Muslim countries: Egypt, Saudi Arabia, and Tunisia.
- 1359 **Schaefer, Roger Glen.** An examination of historical and archaeological evidence of possible trans-Pacific contact in pre-Columbian times.
- 1360 **Short, Sharyl Elaine.** County responses to Goal 5 of LCDC planning goals and guidelines.

#### Mathematics—MASTERS 1978

- 1361 **Okada, Kanzo.** The asymptotic boundary layer on a circular cylinder in axisymmetric micropolar fluid flow and constitutive theories.
- 1362 **Reedy, Catherine Anne.** Approximation of continuous functions by Everett Splines.

#### Mathematics—MASTERS 1979

- 1363 **Bland, Steven Andrew.** The distribution of partial quotients in the simple continued fraction expansion of a real number.
- 1364 **Gerlach, Siegfried.** Application of algebraic topology to graphs and networks.
- 1365 **Kiyak, James Walter.** A frenet theorem for regular null curves in  $L^3$ .
- 1366 **Malloy, David.** Boundary value problems and bifurcation theory for ordinary differential equations.

#### Mathematics—MASTERS 1980

- 1367 **Carl, Elizabeth Simpson.** Analytical foundations of plane geometry.
- 1368 **Wong, Anita Yuen-ling.** The numerical computations in the neighborhood of isolated singularities with applications.

#### Mathematics—MASTERS 1982

- 1369 **Kinion, Paul A.** Uniform Hamiltonian touring sequences.

#### Mathematics—DOCTORS 1978

- 1370 **Endicott, Patrick C.** Simplicial bundles and the homology structure of submersions.
- 1371 **Kelley, Thomas E.** Microcontinuum theory and orientational effects in smectic liquid crystals.
- 1372 **McCay, Brian M.** Nonlocal electromagnetic theory of fluids with applications to surface waves in a dielectric fluid.
- 1373 **McGee, Keane B.** Generalized convex bodies of revolution in n-dimensional space.

#### Mathematics—DOCTORS 1979

- 1374 **Celariet, Donald Allen.** A study of the global convergence properties of Newton's method.
- 1375 **Summers, Daniel Stewart.** On the Picard group of branched coverings of  $CP^2$ .

#### Mathematics—DOCTORS 1980

- 1376 **Kim, Jong-Chul.** Embeddings of Lorentzian manifolds by solutions of the d'Alembertian equations.
- 1377 **Lodwick, Weldon A.** Two numerical methods for the solutions of optimal control problems with computed error bounds using the maximum principle of pontryagin.

#### Mathematics—DOCTORS 1981

- 1378 **Lancaster, Kirk Eugene.** On temperate fundamental solutions with support in a nonsalient cone.
- 1379 **Okada, Kanzo.** Synthetic method in thermal boundary layer transition.

#### Mechanical Engineering—MASTERS 1978

- 1380 **Cantwell, William Curtis.** An analytical model for predicting truck performance on interstate highways.
- 1381 **Chan, Yau Wai.** Large displacement, high Reynolds number oscillating cylinder.
- 1382 **Churchill, David J.** Flow measurement and characterization in shallow geothermal systems used for downhole heat exchanger applications.
- 1383 **Holt, Steven Charles.** Design and construction of a small electric service vehicle.
- 1384 **King, David C.** Energy resource conservation in new large power plants.
- 1385 **Kreitlow, David Brian.** Geothermal well downhole heat exchanger design analysis.

#### Mechanical Engineering—MASTERS 1979

- 1386 **Chao, Hsiao-hwa.** An investigation of slumping behavior in cold-phase fluidized bed.
- 1387 **Gaines, Stephen Frank.** Single rod wetting with simulated fuel-cladding gap.
- 1388 **Gregoric, Miroslav.** Experimental investigation of merging buoyant jets in a crossflow.
- 1389 **Krishna, Sudhir S.** Computer simulation and evaluation of solar cooling systems with hot and cold storage options.
- 1390 **Miles, Charles Ray.** Modelling and flow measurement of shallow geothermal systems with downhole heat exchangers.

#### Mechanical Engineering—MASTERS 1980

- 1391 **Donovan, Jerry Eugene.** A study of forces on simulated heat exchange tubes immersed in a cold fluidized bed.
- 1392 **Grill, Alan Richard.** An optimal design method for an air-heating solar energy collector.
- 1393 **Guidotti, Timothy E.** Transient fuel pin temperature calculations using describing functions.
- 1394 **Layton, William Clifford.** Simulator of a solar heating and cooling system with experimental evaluation.
- 1395 **Melchior, Daniel K.** The effect of geometric orientation and random wind condition on flat plate convection rates.
- 1396 **Wright, Alan Duane.** Exact frequencies and mode shapes of a rotating beam.

#### Mechanical Engineering—MASTERS 1981

- 1397 **Hockman, Jeffrey Nathan.** A study of bubble size in a large particle fluidized bed at elevated temperatures.
- 1398 **McMahon, William R.** Analysis of heat pump coupled aquifer seasonal thermal energy storage systems.

- 1399 **Means, Paul Morency.** Experimental evaluation and numerical modeling of a water source heat pump evaporator.
- 1400 **Nisargand, Arun L.** Thermal and seismic analysis of piping systems using classical methods.
- 1401 **York, James Michael.** The effect of alpha phase morphology on the impact energy of commercial purity titanium.

#### Mechanical Engineering—MASTERS 1982

- 1402 **Cavola, Raymond Gene.** An experimental/analytical investigation of negatively buoyant jets discharged vertically upward into a crossflow current.
- 1403 **Faye, William.** NOx emissions for a gas turbine as a function of fuel-bound nitrogen and other variables.
- 1404 **Lawrence, Thomas M.** Evaluation of thermal energy storage requirements for a geothermal based district heating system.

#### Mechanical Engineering—DOCTORS 1978

- 1405 **Adams, Ronald Lynn.** An analytical model of heat transfer to a horizontal cylinder immersed in a gas fluidized bed.
- 1406 **Tuttle, Kenneth Lewis.** Combustion mechanisms in wood fired boilers.

#### Mechanical Engineering—DOCTORS 1979

- 1407 **Rawers, James C.** Fracture energies of Zircaloy and some zirconium alloys.

#### Mechanical Engineering—DOCTORS 1980

- 1408 **Macduff, Robert Bruce.** Multiple cooling tower plumes, a field study and analytical model.

#### Mechanical Engineering—DOCTORS 1981

- 1409 **Choi, Sang Hyouk.** Heat transfer in magnetic fluids at low Reynolds number.
- 1410 **Sitthiphong, Norkun.** Experimental studies of a partially defluidized bed with immersed heat exchange tubes.
- 1411 **Wei, Shou Yuan.** Application of linear quadratic control in reduction of aerodynamic forces on aircraft.

#### Mechanical Engineering—DOCTORS 1982

- 1412 **Bahrami, Mohsen.** Periodic system analysis with application to wind turbines.
- 1413 **Fukuda, Masao.** Laminar natural convection in vertical tubes with one end closed.
- 1414 **George, Alan Herbert.** An experimental study of heat transfer to a horizontal tube in a large particle fluidized bed at elevated temperature.
- 1415 **Meyer, Edward Earnest.** An aeroelastic analysis of the Darrieus wind turbine.

#### Microbiology—MASTERS 1978

- 1416 **Causey, Stuart Crowell.** Transconjugant analysis: the limitations on the use of sequence-specific endonucleases for plasmid identification.
- 1417 **Hough, Susan Carol.** Factors affecting mitochondrial respiration in yeast.
- 1418 **Miranda-Chavez, Alcibiades Heli.** Chitinase production of *Arthrobacter* sp. BN2.
- 1419 **Rowse-Eagle, Debra H.** A study of corynebacterial kidney disease of salmonid fishes.
- 1420 **Woodward, Barton Clarke.** Subdivision of the genus *Klebsiella* on the basis of DNA-DNA membrane filter hybridization.

#### Microbiology—MASTERS 1979

- 1421 **Caldwell, Bruce A.** Microbial ecology of an old-growth Douglas fir canopy.
- 1422 **Fowlkes, Charles Edward.** A comparative study of *Lactobacillus acidophilus* strains.
- 1423 **Huggins, Susan Peters.** Partial purification and characterization of hemolysin from a psychrotrophic Kanagawa positive marine vibrio.
- 1424 **Hunter, Valerie Antoinette.** *Yersinia ruckeri*: a characterization of the carrier state in steelhead trout (*Salmo gairdneri*).
- 1425 **Stott, Diane Elizabeth.** Analysis of variations in selected enzymatic activities with environmental parameters in the soil.
- 1426 **Yamamoto, Deborah Keiko.** Growth, survival, and antibiotic resistance transfer of *Klebsiella* in a botanical environment.

#### Microbiology—MASTERS 1980

- 1427 **Bolf, Ronald Bruce.** Origin, incidence, and survival of *Salmonella* in a rural watershed.
- 1428 **Daniell, Suzanne D.** Selection of phage insensitive lactic streptococcal strains for use in cheddar cheese manufacture.
- 1429 **Durrin, Linda Kay.** An electron micrographic study of IHNV and IPNV: development of methods for determining particle-infectivity ratios and for rapid diagnosis.
- 1430 **Edwards, Susan Thornton.** Factors influencing the production of tyramine, histamine and tryptamine in cheese.
- 1431 **Jenkins, Michael B.** The effects of commercial rhizobium inoculants on the establishment of *Trifolium subterraneum* in southwest Oregon soils.
- 1432 **Kibbey, Heather Jean.** Evaluation of effectiveness of *Rhizobium trifolii* strains for *Trifolium subterraneum* L. (subterranean clover) in southwestern Oregon soils.
- 1433 **Lamka, Karla Gail.** Specific indicator organisms can define the magnitude and origins of non-point pollution in rural environments.
- 1434 **McCoy, Edward L.** Tracing septic system effluent movement through saturated hillslope soils.
- 1435 **Philippon-Fried, Marie.** Partial characterization of six established salmonid cell lines.
- 1436 **Yang, Niann-luu.** Acid-producing activity of lyophilized lactic streptococcal cheese starter concentrates.

#### Microbiology—MASTERS 1981

- 1437 **Adams-Burton, Catherine Ruth.** A partial characterization of the immune response to polyvinyl pyrrolidone.
- 1438 **Hickok, Ruth Ellen.** Electron transport pathways in revertible hydrogen-uptake negative mutants and parent strain of *Rhizobium japonicum*.
- 1439 **Kurath, Gael.** Some physiological bases for survival of a marine bacterium during nutrient starvation.
- 1440 **LeChevallier, Mark William.** Characterization of bacterial populations and turbidity effects in chlorinated drinking water.
- 1441 **Orberg, Paulo Kristian.** Studies on cellulase production from annual ryegrass straw by *Trichoderma reesei*.
- 1442 **Reed, Margaret Ann.** Determination of differential gene action in *Bdellovibrio bacteriovorus* using RNA-DNA hybridization techniques.
- 1443 **Wulf, John J.** Lactic streptococci: growth characteristics and plasmid profiles of drug- and bacteriophage-insensitive mutants.
- 1444 **Yorgey, Peter Scott.** The synergetic effects of starvation and hydrostatic pressure on uptake of alpha-aminoisobutyric acid by a psychrophilic marine vibrio.

#### Microbiology—MASTERS 1982

- 1445 **Bauer, Nancy Jo.** A simple, rapid bioassay for determining the effects of pollutants on bacteria.
- 1446 **Donnelly, Raymond Peter.** Immunosuppression induced by staphylococcal enterotoxin B.
- 1447 **Rivas, Victor Gerardo.** Suppression of cellular immune responses by *Candida albicans*.

#### Microbiology—DOCTORS 1978

- 1448 **Bagley, Susan Tuck.** Comparative sanitary and health significance of environmental and clinical *Klebsiella* species.
- 1449 **Banowitz, Gary Michael.** Bactericidal and physico-chemical properties of a lectin derived from spring chinook salmon (*Oncorhynchus tshawytscha*) Ova.
- 1450 **Dunn, Joseph Edward.** Physiological studies on *Bdellovibrio bacteriovorus* 109D.
- 1451 **Udey, Lanny R.** Pathogenic, antigenic, and immunogenic properties of *Aeromonas salmonicida* studied in juvenile coho salmon (*Oncorhynchus kisutch*).

#### Microbiology—DOCTORS 1979

- 1452 **Chen, Wen-pin.** Studies on glucose isomerase from *Streptomyces flavogriseus*.
- 1453 **Hays, Phillip Roy.** The physiological effects of an antimycotic azasterol in *Saccharomyces cerevisiae*.
- 1454 **Price, Virginia Lee.** Guanosine tetra- and pentaphosphate accumulation in *Bacillus subtilis*.
- 1455 **Ransom, David Peter.** Bacteriogenic, immunogenic and pathogenic studies of *Vibrio* spp. pathogenic to salmonids.



- 1456 **Sanders, James Edward.** Cell wall chemistry, deoxyribonucleic acid base composition and pathogenesis of the kidney disease bacterium in salmonid fishes.
- 1457 **Talbot, Henry Wilkinson.** Nutritional factors associated with the presence and growth of *Klebsiella* in redwood environments.

#### Microbiology—DOCTORS 1980

- 1458 **Hedrick, Ronald Paul.** Persistent infection of salmonid cell lines with infectious pancreatic necrosis virus: a model for the carrier state in trout.
- 1459 **Huggins, Alan Roy.** Bacteriophage-host interactions in lactic streptococci : lysogeny, phage inhibition and phage-insensitive mutants.

#### Microbiology—DOCTORS 1981

- 1460 **Gonzales, Robert Alfonso.** The development of *Phytophthora cactorum* as a model system for the study of sterol metabolism.
- 1461 **Libby, Randell T.** The RNA polymerase of *Bacillus subtilis*: regulation, assembly and relative rates of subunit biosynthesis.
- 1462 **Nelson, Jay A.** RNA-directed DNA polymerase activity in human placentas.
- 1463 **O'Leary, Patrick John.** A partial characterization of high and low molecular weight immunoglobulin in rainbow trout (*Salmo gairdneri*).
- 1464 **Winton, James Robert.** Isolation and characterization of a new reovirus from chum salmon (*Oncorhynchus keta*).

#### Microbiology—DOCTORS 1982

- 1465 **Groberg, Warren J.** Infection and immune response induced by *Vibrio anguillarum* in juvenile coho salmon (*Oncorhynchus kisutch*).
- 1466 **Izuagbe, Yakubu Sule.** Malo-lactic fermentation of *Leuconostoc* isolates from Oregon wines.
- 1467 **Marchitto, Kevin Scott.** The metabolism of 5'-deoxy-5'-methylthioadenosine in *Saccharomyces cerevisiae*.
- 1468 **Williams, Robert Roy.** High performance liquid chromatography of the staphylococcal enterotoxins.

#### Nuclear Engineering—MASTERS 1978

- 1469 **Hatteberg, Ronald Leonard.** A simulated two-group method for computing boiling water reactor power distributions.
- 1470 **Holter, Gene David.** An analysis of fission product gamma spectra: the use of nuclear systematics to estimate gamma spectra.
- 1471 **McNair, Gary W.** An evaluation of finite difference methods for calculating heat transfer in fuel pins with eccentrically placed pellets.

#### Nuclear Engineering—MASTERS 1979

- 1472 **Guenther, Richard John.** The applicability of sintering mechanisms in the initial stage restructuring and preferential pore migration of irradiated (U<sub>0</sub>s.b85sPub0s.b15s)C sphere-pac fuel.
- 1473 **Hsieh, Kitty A.** Evaluation of the economic risk from nuclear power.
- 1474 **Scherpelz, Robert Irvin.** The measurement of uranium concentrations by the delayed neutron counting technique.
- 1475 **Wong, Bright M. K.** Correlation analysis of decay heat experiments and summation calculations.

#### Nuclear Engineering—MASTERS 1980

- 1476 **Lopez Montes de Oca, Ricardo G.** Simulation of transients following a turbine trip in boiling water reactors by analog techniques.
- 1477 **Oylear, Joan Marie.** Thermal hydraulic analysis of a pressurized water reactor.
- 1478 **Yoshihara, Grant Masaru.** Calculation of consistent steady-state conditions for boiling water reactors based on RETRAN models.

#### Nuclear Engineering—MASTERS 1981

- 1479 **Coomes, Edmund Page.** Thermal hydraulic analysis of a pressurized water reactor during transient conditions.
- 1480 **Nielsen, Larry H.** An assessment of describing function methods applied to reactor fuel performance analysis.
- 1481 **Schofield, Paul Edwin.** A study of the behavior of actinides continuously recycled in a hard spectrum reactor.
- 1482 **Wang, Shou-Kong Lancelot.** High speed motion neutron radiography of two-phase flow.
- 1483 **Youssefnia Mohammed Hossein.** Pressurized water reactor (PWR) accident analysis using the EMERALD code.

#### Nuclear Engineering—MASTERS 1982

- 1484 **Anderson, Michael Jay.** An evaluation of a neutron flux trap control scheme for pressurized water reactors.
- 1485 **Gao, Y. C.** Neutron and gamma radiography of UO<sub>2</sub> fuel and TRIGA fuel elements.
- 1486 **Henke, Robert K.** Stochastic simulation of sphere beds and the effect of packing density on the thermal conductivity of sphere pac nuclear fuels.
- 1487 **Montgomery, Scott D.** Thermal and mechanical behavior of sphere pac fuel.
- 1488 **Robinson, Cheryl A.** Burnup dependent neutron flux and heat source distribution in sphere-pac mixed carbide fuels.
- 1489 **Tollefson, Dennis A.** Application of high speed motion neutron radiography techniques to liquid streams injected into a pressurized steel chamber.
- 1490 **Willison, James Stuart.** Thermal conductivity modeling of unstructured sphere pac nuclear fuels.

#### Nuclear Engineering—DOCTORS 1979

- 1491 **Ades, Maurice.** Modeling of the thermal behavior of the irradiated sphere-pac mixed carbide fuel.
- 1492 **Trapp, Turner Japhet.** The effects of the depletion and buildup of fissile nuclides and of p238sU fast fissions on fission product decay power.
- 1493 **Wu, Chi Hung.** Average beta and gamma decay energies of the fission products.

#### Nuclear Engineering—DOCTORS 1981

- 1494 **Ting, Yine-ping.** Heat conduction in eccentric annuli.

#### Nuclear Engineering—DOCTORS 1982

- 1495 **Azarfar, Mohammad Ali.** A methodology for safeguards evaluation and its application to mixed oxide fuel fabrication.

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#### Ocean Engineering—MASTERS 1980

- 1496 **Dummer, Jerome Martin.** Wave interaction with pile supported harbor facilities.

#### Ocean Engineering—MASTERS 1981

- 1497 **Tuah, Hang.** Simulation of random, nonlinear wave forces on a circular cylindrical pile.

#### Ocean Engineering—MASTERS 1982

- 1498 **Kim, Tae In.** Wave forces on submerged artificial reefs fabricated from scrap tires.

#### Oceanography—MASTERS 1978

- 1499 **Borgerson, Mark John.** An analytical method for the determination of molecular hydrogen in seawater.
- 1500 **Dexter, Barbara Lynne.** The molting biology and molting behavior of two species of euphausiids off Oregon.
- 1501 **Gallacher, Patrick C.** A description of the oceanic mixed layer at Ocean Station P during August and September 1958 to 1967.
- 1502 **Graham, Rhea Lydia.** A paleomagnetic study of recent sediments in the Santa Barbara Basin.
- 1503 **Guin, Marilyn P.** The role of stridulation in the behavior of the shore crab *Hemigrapsus oregonensis*.
- 1504 **Hansen, Robert Michael.** An examination of the mesoscale characteristics of the coastal wind field.
- 1505 **Kitchen, James C.** Particle size distributions and the vertical distribution of suspended matter in the upwelling region off Oregon.
- 1506 **Lopez, Carlos.** Elemental distributions in the components of metalliferous sediments from the Bauer and Roggeveen Basins—Nazca Plate.
- 1507 **Martell, C. Michael.** On dispersive continental shelf waves generated by alongshore variations in bottom topography.
- 1508 **Nishikawa-Kinomura, Katsuo A.** Trace elements in oyster biodeposits.
- 1509 **Osmer, Stephen Robert.** A statistical analysis of sea level and wind stress at seven locations on the West Coast of North America.

- 1510 **Ratti, Frank Douglas.** Reproduction and growth of the Pacific basket-cockle, *Clinocardium nuttallii* Conrad, from intertidal and subtidal environments of Netarts Bay.
- 1511 **Reed, John Cooper.** An application of a mathematical hydraulics model to Yaquina Bay, Oregon.
- 1512 **Riedel, Gerhardt Frederick.** Isotopic exchange and complexation of iron, zinc, and manganese in a long-term marine phytoplankton culture.
- 1513 **Selk, Bruce W.** The manganese-enriched sediments of the Blanco Trough: evidence for hydrothermal activity in a fracture zone.
- 1514 **Sepulveda-Vidal, Jose.** Rockfishes and associated ichthyofauna caught off Monterey, California, summer 1976.
- 1515 **Silva-Sandoval, Nelson R.** Water mass structure and circulation off southern Chile.
- 1516 **Spinrad, Richard William.** Experimental and theoretical measurements of the particulate volume scattering function at near forward angles.
- 1517 **Wakeham, Susan E.** Petrochemical patterns in young pillow basalts dredged from Juan de Fuca and Gorda Ridges.

#### Oceanography—MASTERS 1979

- 1518 **Baumann, Richard James.** An analysis of one year of surface layer meteorological data from the Arctic pack ice.
- 1519 **Broome, Robert.** Sediment transport beneath an undular hydraulic jump.
- 1520 **Davis, John Steven.** Diel activity of benthic crustaceans in the Columbia River estuary.
- 1521 **Gabriel, Wendy L.** Feeding selectivity of Dover sole (*Microstomus pacificus* Lockington) off Oregon.
- 1522 **Karlin, Robert.** Sediment sources and clay mineral distributions off the Oregon coast: evidence for a poleward slope undercurrent.
- 1523 **Kemp, Paul F.** Dispersion of the sandy-beach amphipod *Eohaustorius brevicus* Bosworth.
- 1524 **Lara-Lara, Jose Ruben.** Variability and tidal exchange of ecological properties in a coastal lagoon.
- 1525 **Medina, Francisco A.** A study of wind, oceanic temperature and hydrography in the upwelling area off Peru.
- 1526 **Nunez Dupre, Jose D.** Numerical classification analysis of infaunal composition and distribution on two Oregon coast beaches.
- 1527 **Plath, David Carl.** The solubility of  $\text{CaCO}_3$  in seawater and in electrolyte solutions.
- 1528 **Reimers, Clare Elizabeth.** The flow mechanics and resulting erosional and depositional features of explosive volcanic density currents on earth and Mars.
- 1529 **Simmons, Daniel Louis.** The effect of short-term thermal stresses on the survival of nearshore copepods.
- 1530 **Spoering, Thomas James.** Towed observations of internal waves in the upper ocean.

#### Oceanography—MASTERS 1980

- 1531 **Acuna, Jenaro A.** Elimination of sulfide interference with the colorimetric determination of nitrite.
- 1532 **Batchelder, Harold Parker.** Population characteristics of the Intertidal Green Sea Anemone, *Anthopleura xanthogrammica*, on the Oregon coast.
- 1533 **De Angelis, Marie Agatha.** Nitrous oxide studies in two marine environments: an unpolluted estuary and the interstitial water of a deep-sea sediment.
- 1534 **DeVries, Thomas J.** Nekton remains, diatoms, and holocene upwelling off Peru.
- 1535 **Fisher, Joseph P.** Reproduction, growth, feeding, and distribution of the mesopelagic fish *Tactostoma macropus*.
- 1536 **Hewitt, Gary R.** Seasonal changes in English sole distribution: an analysis of the inshore trawl fishery off Oregon.
- 1537 **Ibach, Lynne E. Johnson.** The relationship between sedimentation rate and total organic carbon content in ancient marine sediments.
- 1538 **Ishida, Hiroshi.** Analysis of meteorological observations from an array of buoys during JASIN.
- 1539 **Luna-Hernandez, Jose Ramon.** One-dimensional numerical model of tides in Punta Banda estuary, Mexico.
- 1540 **Moser, John Christian.** Sedimentation and accumulation rates of Nazca Plate metalliferous sediments by high resolution Ge(Li) gamma-ray spectrometry of uranium series isotopes.

- 1541 **Powell, Heidi Sara.** Decomposition of organic matter in estuarine sediments by sulfate reduction: a field study from Yaquina Bay and sediment incubation experiments.
- 1542 **Willis, John Marcus.** Vertical distribution and migration of fishes from the lower mesopelagic zone off Oregon.

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- 1543 **Baba, Jumpei.** Experiments on the settling behavior of irregular grains in a fluid.
- 1544 **Brown, Robin Franklin.** Abundance, movements and feeding habits of the harbor seal, *Phoca vitulina*, at Netarts Bay, Oregon.
- 1545 **Glick, Melissa Ann.** Substrate capture, uptake, and utilization of some amino acids by starved cells of a psychrophilic marine vibrio.
- 1546 **Ibach, Darrell Henry.** The structure and tectonics of the Blanco Fracture Zone.
- 1547 **Jennings, Joe C.** Meridional fluxes of dissolved silicon in the southern ocean.
- 1548 **Johnson, Gary Ellis.** The tidal exchange of *Callinassa californiensis* larvae between the ocean and the Salmon River estuary, Oregon.
- 1549 **Millan-Nunez, Roberto.** Effects of physical phenomena on the distribution of nutrients and phytoplankton productivity in a coastal lagoon.
- 1550 **Murillo, Luis.** Modelling tidal circulation and dispersion in the Gulf of Nicoya, Costa Rica.
- 1551 **Rosenberg, Andrew A.** Growth of juvenile English sole, *Parophrys vetulus*, in estuarine and open coastal nursery grounds.
- 1552 **Thornburg, Todd Mark.** Sedimentary basins of the Peru continental margin: structure, stratigraphy, and cenozoic tectonics from 6°S to 16°S latitude.

#### Oceanography—MASTERS 1982

- 1553 **Anderson, Iain.** Near-inertial motions off the Oregon coast.
- 1554 **Carlson, Barbara Louise Kern.** Effects of temperature, salinity, feeding, substrate, and storage on the setting and survival of commercially reared eyed larvae of the Pacific oyster, *Crassostrea gigas*.
- 1555 **deWitt, Lynn Marie.** Variability of the upper ocean internal wave field during JASIN.
- 1556 **Donegan, David P.** Modern and ancient marine rhythmites from the Sea of Cortez and California continental borderland: a sedimentological study.
- 1557 **Fok-Pun, Luis.** Settling velocities of planktonic Foraminifera: density variations and shape effects.
- 1558 **Fonseca, Tomas Rodrigo.** On the physical characteristics of upwelling events off Oregon and Peru.
- 1559 **Hammann, Mark Gregory.** Utilization of the Columbia River Estuary by American shad, *Alosa sapidissima* (Wilson).
- 1560 **Matherne, Anne Marie.** Paleooceanography of the Gulf of California: a 350-year diatom record.
- 1561 **Murray, David W.** Paleo-oceanography of the Gulf of California based on silicoflagellates from marine varved sediments.
- 1562 **Nielsen, Reinald Dreas.** Americium and plutonium in water, biota, and sediment from the central Oregon coast.
- 1563 **Olson, Eric J.** Calcium in the equatorial Pacific Ocean.
- 1564 **Strehlow, David Randall.** The relation of tidal height and sediment type to the intertidal distribution of marine oligochaetes in Coos Bay, Oregon.

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- 1565 **Andreas, Edgar L.** Observations of velocity and temperature and estimates of momentum and heat fluxes in the internal boundary layer over Arctic leads.
- 1566 **Cohen, Yuval.** Studies on the marine chemistry of nitrous oxide.
- 1567 **Miller, Martin C.** Laboratory and field investigations on the movement of sand tracer under the influence of water waves: ripple development and longitudinal spreading of tracer material.
- 1568 **Molina-Cruz, Adolfo.** Late quaternary oceanic circulation along the Pacific Coast of South America.
- 1569 **Peterson, Robert E.** A study of suspended particulate matter: Arctic Ocean and northern Oregon continental shelf.
- 1570 **Yao, Tom.** Some effects of topography and vertical shear on low-frequency ocean fluctuations.

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- 1571 **Flegal, Arthur Russell.** A biogeochemical study of manganese in the estuarine zone.
- 1572 **Johnson, Kenneth Stewart.** Ion association and activity coefficients in electrolyte solutions.
- 1573 **Johnson, Vernon Gene.** Decline of radioactivity in the Columbia River and estuary: rates and mechanisms.
- 1574 **Koblinsky, Chester John.** Tides on the West Florida shelf.
- 1575 **Lyle, Mitchell.** The formation and growth of ferromanganese oxides on the Nazca Plate.
- 1576 **Stakes, Debra S.** Submarine hydrothermal systems: variations in mineralogy, chemistry, temperatures and the alteration of oceanic layer II.

### Oceanography—DOCTORS 1980

- 1577 **Bilyard, Gordon Richard.** Zoogeography and ecology of western Beaufort Sea polychaeta.
- 1578 **Brubaker, John Merrill.** Space-time scales of temperature variability in the seasonal thermocline of Lake Tahoe.
- 1579 **Dahm, Clifford N.** Studies on the distribution and fates of dissolved organic carbon.
- 1580 **DeManche, John Michael.** Variations in phytoplankton physiological parameters during transient nitrogen environments.
- 1581 **Donaghay, Percy L.** Experimental and conceptual approaches to understanding Algal-Grazer interactions.
- 1582 **Peterson, William Thornton.** Life history and ecology of *Calanus marshallae* Frost in the Oregon upwelling zone.
- 1583 **Schuette, Gretchen.** Recent marine diatom taphocoenoses off Peru and off southwest Africa: reflection of coastal upwelling.

### Oceanography—DOCTORS 1981

- 1584 **Badan-Dangon, Antoine Renaud Fabrice.** On the dynamics of subinertial currents off Northwest Africa.
- 1585 **Busch, William H.** The physical properties, consolidation behavior, and stability of the sediments of the Peru-Chile continental margin.
- 1586 **Drake, Ellen T.** Robert Hooke and the foundation of geology: a comparison of Steno and Hooke and the Hooke imprint on the Huttonian theory ; and, The tectonic evolution of the Oregon continental margin : rotation of segment boundaries and possible spacetime relationships in the Central High Cascades.
- 1587 **Johnson, John Kenneth.** Population dynamics and cohort persistence of *Acartia californiensis* (Copepoda:Calanoida) in Yaquina Bay, Oregon.
- 1588 **Keffer, Thomas.** Mean and time-dependent temperature and vorticity balances in the sub-tropical North Atlantic.
- 1589 **Loubere, Paul.** Properties of the oceans reflected in the sea-bed distribution of Quaternary planktonic Foraminifera: including a study of the limits of empirical paleo-oceanographic models and the recognition and interpretation of faunal assemblages lacking modern counterparts.
- 1590 **Newberger, Priscilla Anne.** Turbulence in the bottom boundary layer.
- 1591 **Roffe, Thomas J.** Population, food habits, and behavior of pinnipeds in the Rogue River and their relationship to salmonid runs.
- 1592 **Spillane, Michael Cornelius.** A model of wind-forced viscous circulation near coastal boundaries.

### Oceanography—DOCTORS 1982

- 1593 **Chriss, Terry Michael.** A study of turbulence in the viscous sublayer and logarithmic region of the bottom boundary layer.
- 1594 **Hogue, Everett Wayne.** Seasonal change in the abundance and spatial distribution of a meiobenthic assemblage on the open Oregon coast and its relationship to the diet of O-age flatfishes.
- 1595 **Krissek, Lawrence A.** Sources, dispersal, and contributions of fine-grained terrigenous sediments on the Oregon and Washington continental slope.
- 1596 **Ness, Gordon Everett.** Late Neogene tectonics of the mouth of the Gulf of California.
- 1597 **Reimers, Clare Elizabeth.** Sedimentary organic matter : distribution and alteration processes in the coastal upwelling region off Peru.
- 1598 **Stabeno, Phyllis Jean.** The reflection, transmission and scattering of internal waves at ocean fronts.

### Pharmaceutical Chemistry—DOCTORS 1981

- 1599 **Henry, Douglas Robert.** Synthesis and structure-activity relationships of some 4-substituted pyrazole and isoxazole inhibitors of liver alcohol dehydrogenase ; The use of molecular connectivity in the multivariate classification of drug molecules.
- 1600 **Lins, Claudio Lucio Kolling.** Indolizines as potential antimicrobial agents.

### Pharmaceutical Science—MASTERS 1978

- 1601 **Comer, William Foster.** Comparison of shared and traditional pharmacy services in a small hospital.
- 1602 **Millard, Michael Eugene.** Analysis of gentamicin blood levels for the purpose of establishing the potential of pharmacist assisted gentamicin dosing.

### Pharmaceutical Science—MASTERS 1979

- 1603 **Gisclon, Lee Gehl.** Assay and pharmacokinetics of dyphylline following oral administration in humans.

### Pharmacology and Toxicology—MASTERS 1981

- 1604 **Dalich, George Matthew.** Acute and chronic toxicity studies with monochlorobenzene in rainbow trout.
- 1605 **Giese, Neill Alan.** The effect of carmustine (BCNU) on hepatic UDP-glucuronyltransferase activity in the rat.
- 1606 **Merrigan, Michael Dean.** The effect of cold stress on the modulation of vascular adrenergic transmission by acetylcholine.

### Pharmacology and Toxicology—MASTERS 1982

- 1607 **Eldredge, Michael Ben.** The binding of pentobarbital to hemoglobin and its possible involvement in affecting oxygen dissociation.

### Pharmacology and Toxicology—DOCTORS 1981

- 1608 **Wilson, Vincent Lee.** Delayed changes in hepatic mixed function oxygenase enzymes in carmustine (BCNU) treated mice.

### Pharmacy—MASTERS 1978

- 1609 **Warner, Marlys Ann.** A study of continuing pharmaceutical education and other factors correlating with pharmaceutical competency in the states of Oregon and Idaho.

### Pharmacy—MASTERS 1979

- 1610 **Brown, Ronald Ray.** A methodology for evaluating acceptance of a regional drug information service: assessment in the patient care setting.
- 1611 **Kaufman, Stuart Neil.** The effect of hypothermia on biochemical and morphological aspects of carbon tetrachloride hepatotoxicity.
- 1612 **Palalikit, Darawan.** Determination of ionization constants by chromatography.

### Pharmacy—MASTERS 1980

- 1613 **Panomvana, Patipan.** An analysis of selected socioeconomic factors and their effect on prescription price, dollar markup and percent markup in Oregon.
- 1614 **Schneider, Steven Richard.** In vitro and in vivo evaluation of antimicrobials against bacterial fish pathogens.
- 1615 **Shelton, Dennis Wayne.** Quantification of the joint effects of mixtures of hepatotoxic agents: evaluation of a theoretical model in mice.
- 1616 **Sturgeon, Chris K.** The development and evaluation of a documentation system for control of nursing home patient care orders.

### Pharmacy—MASTERS 1981

- 1617 **Ghannam, Musa.** Chelating agents in the drug dosage design of iron preparations.
- 1618 **Huang, Hua-pin.** Comparative pharmacokinetic studies of dyphylline and some dyphylline prodrugs.

### Pharmacy—MASTERS 1982

- 1619 **Colleli, Karen.** Evaluation of a control program restricting the use of second generation cephalosporins.
- 1620 **Louie, Nancy.** Stability of folic acid in 25 percent dextrose, 3.5 percent amino acids and multivitamin solution.
- 1621 **Svec, Alan Lee.** Aminoglycoside nephrotoxicity in rainbow trout (*Salmo gairdneri*).

**Pharmacy—DOCTORS 1980**

- 1622 **Panomvana, Duangchit.** Prolonged duration of action of diphyllyne through prodrugs.  
1623 **Sharp, William Thomas.** An investigation of factors influencing the productivity of pharmacists in community pharmacies.

**Pharmacy—DOCTORS 1982**

- 1624 **Olson, Stephen Carl.** The effect of food and tablet age on the relative bioavailability and pharmacodynamics of two tolbutamide products.

**Pharmacy Administration—MASTERS 1981**

- 1625 **Thonstad, Ralph Edward.** The establishment and utilization of the work unit as a means of measuring productivity in a hospital pharmacy.

**Physics—MASTERS 1981**

- 1626 **Ghaleb, Hossam H.** Angular correlations of gamma rays in the decay of the 1930s.

**Physics—DOCTORS 1978**

- 1627 **Smith, Augustine J.** Time-of-flight studies of high Rydberg states in atomic lithium excited by electron impact.

**Physics—DOCTORS 1979**

- 1628 **Greenwood, William Graham.** Decay of atomic states strongly coupled by an oscillating field.

**Physics—DOCTORS 1980**

- 1629 **Karniewicz, Joseph J.** De-Haas van-Alphen effect in the quantum limit.

**Physics—DOCTORS 1981**

- 1630 **Blind, Barbara.** Response of two-level atoms to intense amplitude modulated laser beams.  
1631 **Shepard, Chester L.** Collision processes of high Rydberg states in atomic lithium.

**Plant Pathology—DOCTORS 1982**

- 1632 **Hunger, Robert Marvin.** Chemical control of hop downy mildew (*Pseudoperonospora humuli*) and tolerance by *Phytophthora* isolates to the systemic fungicide metalaxyl.

**Poultry Science—MASTERS 1978**

- 1633 **Paradis, Patrick Lloyd.** The feeding value of Pacific Northwest grown soybeans for chickens and turkeys.

**Poultry Science—MASTERS 1979**

- 1634 **Atuahene, Yaw Opoku.** Biotin supplementation of corn and wheat based rations and its influence on dermatitis and hatchability in dwarf and normal-size Single Comb White Leghorns.

**Poultry Science—MASTERS 1980**

- 1635 **Fuquay, Janice Irene.** Reproductive performance of broiler breeders maintained in cages or on floors through 59 weeks of age.

**Poultry Science—MASTERS 1981**

- 1636 **Bilgili, Sacit Faruk.** Evaluation of the true metabolizable energy bioassay for poultry, and determination of energy values of selected feedstuffs.  
1637 **Feltmann, Allen John.** Intermittent light in conventional and light-tight floor pen houses on broiler performance and nutrient utilization.  
1638 **Oldenkamp, Mark Gilbert.** Supplementation of zinc and copper in practical broiler rations and the effect on performance.

**Poultry Science—DOCTORS 1979**

- 1639 **Roush, William Burdette.** Evaluation, utilization and improvement of the nutritional quality of feed grains for poultry.

**Poultry Science—DOCTORS 1981**

- 1640 **Ngam, Joe Eric Tosah.** The genetic parameters associated with egg production and related traits in a sex-linked dwarf strain of single comb White Leghorns (*Gallus domesticus*).  
1641 **Thompson-Cowley, Lloyd Lorine.** Hemophysiology in the pathogenesis of deep pectoral myopathy in the turkey.

**Poultry Science—DOCTORS 1982**

- 1642 **Egwuatu, Charles Obiajulu.** Physiological and nutritional inter-relationships of mineral elements to growth and reproduction in turkeys.  
1643 **Sadjadi, Morteza.** Single gene effects in chickens (*Gallus gallus domesticus*).

**Rangeland Resources—MASTERS 1978**

- 1644 **Knight, Robert William.** Streamside erosional response to animal grazing practices on Meadow Creek in northeastern Oregon.  
1645 **Mattison, Jeffrey L.** Sediment potentials for selected ecological land units in central Oregon.  
1646 **Rudeen, David Paul.** Compatibility of sheep and deer grazing with lodgepole pine regeneration in the pumice region of central Oregon.

**Rangeland resources—MASTERS 1979**

- 1647 **Clark, Robert G.** Seasonal response of bitterbrush to burning and clipping in eastern Oregon.  
1648 **Ganskopp, David C.** Plant communities and habitat types of the Meadow Creek experimental watershed.  
1649 **Mereszczak, Ihor Myroslaw.** The effects of three levels of range improvements on Roosevelt elk nutrition.

**Rangeland Resources—MASTERS 1980**

- 1650 **Erhard, Dean Hamilton.** Plant communities and habitat types in the Lava Beds National Monument, California.  
1651 **Tart, David Leon.** Flushing ewes on chemically cured hill pasture in western Oregon.

**Rangeland Resources—MASTERS 1981**

- 1652 **Gaither, Ronald E.** Storm runoff characteristics of various plant communities within the Oregon Range Validation Area.  
1653 **Mee, Catherine.** Effect of site potential, season and plant part on the quality and yield of cereal aftermath.

**Rangeland Resources—MASTERS 1982**

- 1654 **Bolognani, Domenic Affrunti.** Simulated storm runoff characteristics between natural and altered ecosystems in the Oregon Range Validation Area.  
1655 **Kauffman, John Boone.** Synecological effects of cattle grazing riparian ecosystems.  
1656 **Padgett, Wayne George.** Ecology of riparian plant communities in southern Malheur National Forest.

**Rangeland Resources—DOCTORS 1979**

- 1657 **Williams, Clinton Karl.** Vegetation classification for the badger allotment, Mt. Hood National Forest.

**Rangeland Resources—DOCTORS 1980**

- 1658 **Holechek, Jerry Lee.** The effects of vegetation type and grazing system on the performance, diet and intake of yearling cattle.  
1659 **Roath, Leonard Roy.** Cattle grazing habits and movements related to riparian habitats and forested ranges with inference to acute dietary bovine pulmonary emphysema (ADBPE).

**Rangeland Resources—DOCTORS 1982**

- 1660 **Johnson, Charles Grier.** An interpretation of synecologic relationships in the Billy Meadows area of the Wallowa-Whitman National Forest.

**Science Education—MASTERS 1982**

- 1661 **Lu, Tai-fu Perkin.** A comparison between science education in the secondary schools of the United States and the Republic of China.

**Science Education—DOCTORS 1978**

- 1662 **Perkins, Raymond David.** The relationship of certain mathematics skills to success of students in introductory community college chemistry.

**Science Education—DOCTORS 1979**

- 1663 **Kennedy, Gary Gower.** The effects of community college laboratory instruction and video-taped presentations involving the skeletal system on cognitive achievement and retention.

- 1664 **Morgan, Micheal E.** The influence of vocationally-oriented applications on the achievement and attitude of community college algebra students.
- 1665 **Myers, Raymond Earl.** An analysis and synthesis of experimental teacher training studies (1963-1974) which tested elements of Bandura's social learning theory.

#### Science Education—DOCTORS 1980

- 1666 **Roberts, Robert Steven.** Student nonverbal behavior and frustration in individual test conditions.

#### Science Education—DOCTORS 1981

- 1667 **Moore, Margaret Louise.** Effects of selected mathematical computer games on achievement and attitude toward mathematics in university entry-level algebra.

#### Science Education—DOCTORS 1982

- 1668 **Filemban, Samir Noorudein.** Verbal classroom interaction in elementary school mathematics classes in Saudi Arabia.
- 1669 **Ghandoura, Abbas Hassan.** Achievement effects of teacher comments on homework in mathematics classes in Saudi Arabia.
- 1670 **Kramer, Beryl Marjorie.** Study of the relationship between safety knowledge and student perception of safety practices of secondary school science teachers.
- 1671 **Macdonald, Mary Allyson.** The effects of new science materials and inservice training on teaching styles in the Ciskei, South Africa.

#### Soil Science—MASTERS 1978

- 1672 **Costa, Robert Edward.** The fertilizer value of shrimp and crab processing wastes.
- 1673 **Drlica, Dianne Marie.** Effects of stage of maturity on phosphorus and sulfur critical levels in *Trifolium subterraneum* L.
- 1674 **Rahe, Terrance M.** Movement of labeled *Escherichia coli* through western Oregon hillslope soils under conditions of saturated flow.
- 1675 **Silvernale, Alexandra.** Subsurface disposal of domestic septic effluent in a haploxeralf soil in Southwestern Oregon.

#### Soil Science—MASTERS 1979

- 1676 **Doerge, Thomas Andrew.** Relationships among phosphorus soil tests, forms of soil phosphorus, and plant uptake of phosphorus for selected southwestern Oregon soils.
- 1677 **Glasmann, Joseph Reed.** The geomorphology and stratigraphy of Elkins Road Watershed.
- 1678 **King, Joel Thomas.** Rainfall, surface sealing, runoff, and erosion on Jory soil series in western Oregon.
- 1679 **Laurent, Tom Edwin.** The status of organic materials in several southern Willamette Valley grassland soils.

#### Soil Science—MASTERS 1980

- 1680 **Goh, Hock Swee.** Characteristics of compacted soils from Eastern Oregon.
- 1681 **Johnson, Mark E.** Morphology, genesis, and classification of soils forming in recent age tephra deposits from Mt. St. Helens volcano.
- 1682 **Mellbye, Mark Edward.** Incinerated sewage sludge use as a soil amendment for sweet corn (*Zea mays* L.).
- 1683 **Munson, Kenneth Richard.** Effect of phosphorus forms and fertilizer rates on mycorrhizal development on containerized seedlings.
- 1684 **Petrie, Steven Edwin.** Seasonal distribution of forage production, N concentration, and Mo concentration in subterranean clover.
- 1685 **Rogers, William Reinhold.** A model for rating agricultural suitability of land parcels in western Oregon.

#### Soil Science—MASTERS 1981

- 1686 **Hickman, John S.** The dispersion of some amorphous and crystalline clays.
- 1687 **Istok, Jonathan.** Clay mineralogy in relation to landscape instability in the coast range of Oregon.
- 1688 **Parker, David R.** The mobility and plant availability of boron in selected western Oregon soils.
- 1689 **Pronold, Michael Joseph.** The effects of gypsum on infiltration and surface properties of some western Oregon soils.
- 1690 **Selig, Randy S.** Soil factors related to potassium deficiency of stone fruits in the Willamette Valley.

- 1691 **Sheets, Priscilla Jean.** Reactions of nickel refining by-products with soils and plants.
- 1692 **Simmons, F William.** Sediment, phosphorus and nitrogen in storm runoff from some Willamette Valley croplands.
- 1693 **Stomberg, Andrea Lea.** Soil reactions and plant growth after tannery waste application to an agricultural soil.
- 1694 **Sullivan, Dan M.** Phosphorus response and critical phosphorus levels of winter wheat varieties in western Oregon.
- 1695 **Taylor, Ronald G.** The influence of seeding date, soil pH, nitrogen form, phosphorus, and chloride fertilization on take-all root rot (*Gaeumannomyces graminis* var. *tritici*) of winter wheat.
- 1696 **Wicherski, Bruce P.** Analysis of variability of some forest soils in southwestern Oregon.

#### Soil Science—MASTERS 1982

- 1697 **Bennett, Karen Ann.** Effects of slash burning on surface soil erosion rates in the Oregon Coast Range.
- 1698 **Davis, Elizabeth Anne.** Effects of lime and VA-Mycorrhiza interactions on growth responses of sweetgum seedlings.
- 1699 **Green, David L.** Effect of elevation, aspect, canopy, and season on soil temperature measurements for soil classification.
- 1700 **Inskip, William Parks.** Adsorption of Cu(II) and Cd(II) by Na-montmorillonite at low surface coverage in the presence and absence of water soluble complexing organic ligands.
- 1701 **Kastens, Marilyn K.** Composition and variability of a Willakenzie map unit in Yamhill County, Oregon.
- 1702 **Laird, David Alan.** Sediment characteristics in storm runoff from an agricultural watershed.

#### Soil Science—DOCTORS 1978

- 1703 **Hammermeister, Dale.** Water and anion movement in selected soils of western Oregon.
- 1704 **Spycher, Gody.** Fractionation and some properties of water-dispersible soil organic-mineral particles.
- 1705 **Taskey, Ronald David.** Relationships of clay mineralogy to landscape stability in Western Oregon.
- 1706 **Wiens, John Herbert.** Land use distributions and changes in the Willamette Valley in relation to soil characteristics.

#### Soil Science—DOCTORS 1979

- 1707 **Halvorson, Gary Alfred.** Extraction and plant availability of cadmium and zinc in a Willamette sandy loam soil.
- 1708 **Yingjajaval, Suntaree.** Diffusion and surface reaction processes of absorption on surfaces of soil particles in unsaturated soils.

#### Soil Science—DOCTORS 1980

- 1709 **Rose, Sharon Lee.** Root symbionts and soil microorganisms associated with actinorrhizal plants.

#### Soil Science—DOCTORS 1981

- 1710 **Brown, Randall Barber.** Agricultural erosion and sediment in the western Willamette Valley as indicated by redistribution of Cesium 137.
- 1711 **Lowery, Birl.** Hydrological parameters affecting overland flow in an agricultural watershed.

#### Soil Science—DOCTORS 1982

- 1712 **Ekasingh, Methi.** Translocation of photosynthates in soybeans (*Glycine Max.* (L) Merr. cv. Wilkin) as affected by soil water potential and soil temperature.
- 1713 **Glasmann, Joseph Reed.** Soil solution chemistry, profile development, and mineral authigenesis in several western Oregon soils.
- 1714 **Petrie, Steven Edwin.** N fertilizer effects on soil solution Mn and Mn response of barley and oats.

#### Statistics—MASTERS 1979

- 1715 **Slagle, Rodney L.** Modification of Beale's method for quadratic programming problems.

#### Statistics—DOCTORS 1978

- 1716 **ElBassiouni, Mohamed Yahia.** Hypothesis testing for the parameters of a covariance matrix having linear structure.
- 1717 **Hehnen, Mark Thomas.** The generic knapsack factory: decision rules for sequential knapsack problems with an additional constraint.
- 1718 **Kopecy, Kenneth James.** The efficiency of smooth goodness-of-fit tests.

- 1719 **Pointer, Patrick C.** Density estimation using orthogonal series: a Bayesian approach.

#### Statistics—DOCTORS 1979

- 1720 **Abdullah, Mohammed Abusaleh.** Classification errors in the analysis of fourfold tables.
- 1721 **Kang, Soo-Il.** Performance of generalized Neyman smooth goodness of fit tests.
- 1722 **Smouse, Evan Paul.** A Bayesian approach to nonresponse in sample surveys.
- 1723 **Stevens, Donald L.** Small sample parameter estimation for forced discrete linear dynamic models.
- 1724 **Stewart, William H.** A distribution-free approach for grouped survival data: analysis and calculation of efficiency.

#### Statistics—DOCTORS 1980

- 1725 **Chester, Spencer T.** The use of an auxiliary variable in optimum stratification.
- 1726 **Li, Chang-chung.** A comparison of efficiency and robustness for lower tolerance limit procedures.
- 1727 **Lipman, Harvey Bennett.** Stochastic integration using random point processes.
- 1728 **Robb, Loretta J.** Estimation of the order of an autoregressive time series: a Bayesian approach.
- 1729 **Tarng, Suey-huey.** Estimation of the population total when the sample is taken from a list containing an unknown amount of duplication.

#### Statistics—DOCTORS 1981

- 1730 **Azzam, Abdul-Mordy Hamed.** Admissibility in linear models.
- 1731 **Bargal, Adel Ibrahim.** Efficiency comparisons of goodness-of-fit tests for Weibull and gamma distributions with singly censored data.
- 1732 **Carter, Nancy Jean.** Predicting unit variate values in a finite population.
- 1733 **Habib, Mohamed Gamal Hassan.** A chi-square goodness-of-fit test for censored data.
- 1734 **McArthur, Richard D.** Parameter estimation in stochastic multicompart ment models with destructive sampling.

#### Statistics—DOCTORS 1982

- 1735 **Chou, Chung-kuang.** Optimal inspection policies for a partially observable process with hazardous inspections.
- 1736 **Poulsen, Neil Kenneth.** Large sample efficiencies of invariant quadratic unbiased estimators.
- 1737 **Shih, John I.** Nonparametric estimation of univariate and mixing densities: a Bayesian Least Squares approach.
- 1738 **Thompson, Steven Kirk.** Adaptive sampling of spatial point processes.

#### Textiles

- see -

Clothing, Textiles and Related Arts

#### Trade and Industrial Education

- see -

Industrial Education

#### Veterinary Medicine—MASTERS 1978

- 1739 **Exon, Jerry Hugh.** Pathology, tissue residues and viral-induced mortality in mice exposed to lead and cadmium.
- 1740 **Gosting, Larry Homer.** Purification and characterization of avian encephalomyelitis virus.
- 1741 **Liau, Hardi Kian-hong.** Antigenic comparison of five bovine adenovirus type 3 isolates using a fluorescent foci assay system.
- 1742 **Nesbitt, Gene H.** The pathogenesis, diagnosis and treatment of canine allergic and bacterial dermatitis.
- 1743 **Stroud, Richard Kim.** Causes of death and pathological findings in marine mammals stranded along the Oregon coast.

#### Veterinary Medicine—MASTERS 1979

- 1744 **Pearson, Erwin G.** A study of chronic *Senecio jacobaea* toxicosis in calves and ponies.
- 1745 **Wangelin, James Richard.** Vaccination studies with bovine adenovirus type 3 in a dairy calf herd.

#### Veterinary Medicine—MASTERS 1980

- 1746 **Grinnell, Brian William.** Morphology and nucleic acid characterization of avian encephalomyelitis virus.
- 1747 **Haughom, Paul K.** Evaluation of serum enzymatic and biochemical changes as indicators of severity of pneumonia in calves.

#### Vocational Education—MASTERS 1981

- 1748 **Kerre, Bonaventure Wanjala.** A model for planning manpower development in the Republic of Kenya.

#### Vocational Education—DOCTORS 1978

- 1749 **Johnston, Marilyn Elaine.** The effects of local advisory committees on secondary school vocational programs in Oregon as perceived by committee representatives and administrators.
- 1750 **Kononen, James Wilmer.** A study of unique teacher education competencies needed by vocational education teachers to work with secondary handicapped students.
- 1751 **Lessley, Bradley John.** Keyboard retraining: Qwerty to Dvorak.
- 1752 **Lofgren, Wendy Lael.** An assessment of teacher competency in consumer education/economics/personal finance.
- 1753 **Luft, Roger L.** Desirable non-technical employment qualities for secondary students participating in cooperative work experience: perceptions of employers, coordinators and counselors in Utah.
- 1754 **Rencz, Donald Samuel.** An analysis of tasks performed by low-ability office employees as viewed by office supervisory personnel in Alberta, Canada.
- 1755 **Seeman, Marvin E.** A systems approach to organization, control, and instruction for industrial safety education.

#### Vocational Education—DOCTORS 1979

- 1756 **Denny, Lawrence.** A comparison of the perceptions of educational personnel toward trade and industrial teacher certification procedures in selected states.
- 1757 **Fancher, Burr Edwin.** The identification of core competencies needed for high school graduation in Oregon.
- 1758 **McDowell, Sonya Lea.** Verification of the career maturity inventory attitude scale for use with Oregon twelfth grade students.
- 1759 **Nicol, Andrew James.** Self concept and perceptions of skilled occupations of selected adult metis in rural northern Alberta.
- 1760 **Pilato, Angelica Rita.** The judgment policy used by community college administrators in judging the success potential of male and female administrative applicants.
- 1761 **Stephens, Sarah.** Assessment of a model to predict attitudes and behavior of vocational teacher trainees toward handicapped individuals.
- 1762 **Tremain, June Ellen.** A comparison of men and women vocational educators' present and expected levels of work satisfaction as related to selected work values.

#### Vocational Education—DOCTORS 1980

- 1763 **Amoapim, Jonas Johansson.** The relationship of career aspirations and influencing factors to the satisfaction of choosing secondary school vocational programs.
- 1764 **Fisher, Allan Dale.** Cognitive mapping and vocational students in selected Oregon community colleges.
- 1765 **Timm, Frederick P.** An analysis for potential sex bias and sex stereotyping in selected cognitive style mapping program inventories as implemented at the Fox Valley Technical Institute, Appleton, WI 54913.

#### Vocational Education—DOCTORS 1981

- 1766 **Fancher, Ada Jean.** The identification of common skills, knowledges and related factors needed for successful employment in Oregon.
- 1767 **Miller, Don.** Differences in the Protestant work ethic values of selected freshman and senior students at a land grant university.

#### Vocational Education—DOCTORS 1982

- 1768 **Dresser, Judy Riebli.** Factors that influence the selection of a traditionally female occupation by women in Oregon community colleges.
- 1769 **Madison, Jane F.** A comparison of attitudes and achievement of Alaska secondary Marketing and Distributive Education students toward a specific simulation model versus traditional instruction.

- 1770 **Madison, Willis A.** An analysis of the relationship between grades and Iowa Tests of Educational Development scores of secondary school students in vocational education classes in Anchorage, Alaska.
- 1771 **Reed, Dale Holmes.** A purchasing specification sharing model for community colleges in Oregon.
- 1772 **Turnbow, Sandra P.** The effectiveness of a guidance-based career exploratory program related to skilled trades occupations for internal-external locus of control middle school females.

#### Wildlife Ecology—DOCTORS 1979

- 1773 **Gavin, Thomas Alan.** Population ecology of the Columbian white-tailed deer.

#### Wildlife Science—MASTERS 1979

- 1774 **Edwards, Daniel K.** An analysis of avian communities on a dredged material island.
- 1775 **Frenzel, Richard Wilmarth.** The effects of prescribed burning on small mammal communities in Lava Beds National Monument, California.

#### Wildlife Science—MASTERS 1980

- 1776 **Jenkins, Kurt Jeffrey.** Home range and habitat use by Roosevelt elk in Olympic National Park, Washington.

#### Wildlife Science—MASTERS 1981

- 1777 **Pampush, Geoffrey, J.** Breeding chronology, habitat utilization and nest-site selection of the long-billed curlew in northcentral Oregon.

#### Wildlife Science—MASTERS 1982

- 1778 **Cottrell, Marcy Jean.** Resource partitioning and reproductive success of three species of hawks (*Buteo* spp.) in an Oregon prairie.
- 1779 **Dzinbal, Kenneth A.** Ecology of harlequin ducks in Prince William Sound, Alaska, during summer.
- 1780 **Hansen, Michael Charles.** Status and habitat preference of California bighorn sheep on Sheldon National Wildlife Refuge, Nevada.
- 1781 **Hundertmark, Kris Joseph.** Food selection and juvenile survival in Nuttall's cottontails in central Oregon.
- 1782 **Irons, David B.** Foraging strategies of Glaucous-winged Gulls: influences of sea otter predation.
- 1783 **Joep, Katherine Louise McArthur.** Interactions between grizzly bears and hikers in Glacier National Park, Montana.
- 1784 **Noyes, Cecilla Lea Barham.** An analysis of guild structure of avian communities, Columbia River, Oregon.
- 1785 **Rhodes, Mark Nicolas.** Morphological changes in introduced eastern cottontails in Oregon.

#### Wildlife Science—DOCTORS 1979

- 1786 **Reynolds, Richard Truman.** Food and habitat partitioning in two groups of coexisting *Accipiter*.

#### Wildlife Science—DOCTORS 1980

- 1787 **Talent, Larry Gene.** Ecology of breeding mallards: nest parasitism; brood survival; and, habitat utilization.

#### Wildlife Science—DOCTORS 1982

- 1788 **Morrison, Michael Louis.** Response of avian communities to herbicide-induced vegetation changes, western Oregon.
- 1789 **Smith, Winston Paul.** Status and habitat use of Columbian white-tailed deer in Douglas County, Oregon.

#### Zoology—MASTERS 1978

- 1790 **DeWan, Dale Frederick.** An investigation into the humoral immune response of the ascidian urochordate, *Styela montereyensis*.
- 1791 **DeWoskin, Rob.** Influence of heat exchange on foraging behavior of *Zonotrichia* spp.

#### Zoology—MASTERS 1979

- 1792 **Birks, Eric K.** Hydroxyindole-O-methyltransferase (HIOMT) activity in the pineal of chinook salmon (*Oncorhynchus tshawytscha*).

#### Zoology—MASTERS 1981

- 1793 **Carpenter, John Frank.** The effects of external salinity on carbon dioxide incorporation into free amino acids in *Artemia* nauplii.
- 1794 **Herbst, David Bruce.** Ecological physiology of the larval brine fly *Ephydra* (*Hydropyros*) hians, and alkaline-salt lake inhabiting *Ephyrid* (Diptera).

#### Zoology—MASTERS 1982

- 1795 **Brown, Melinda Elaine.** Determination of mode of death of John Day Merycoidodontidae (Oreodontidae) by population age structure analysis.
- 1796 **Geber, Monica.** Architecture, size, and reproduction in plants: a pollination study of *Mertensia ciliata* (James) G. Don.
- 1797 **Padilla, Dianna.** Selective agents influencing the morphology of coralline algae.
- 1798 **Pandey, Saroj.** Cytopathic effect of *Entamoeba histolytica* on hepatocytes of the Syrian hamster.
- 1799 **Schoffelen, Emile.** Experimental analysis of competition between desert rodents in Oregon.
- 1800 **Whittier, Joan Margaret.** Endocrine regulation of sperm release in an anuran amphibian.
- 1801 **Yates, Kenneth R.** A limpet kelp interaction: description and definition.
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