## CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foreword</td>
<td>vii</td>
</tr>
<tr>
<td>Administration</td>
<td>1</td>
</tr>
<tr>
<td>College of Science, Literature, and the Arts</td>
<td>1-30</td>
</tr>
<tr>
<td>Administration</td>
<td>1</td>
</tr>
<tr>
<td>Anthropology</td>
<td>2</td>
</tr>
<tr>
<td>Astronomy</td>
<td>2</td>
</tr>
<tr>
<td>Botany</td>
<td>3</td>
</tr>
<tr>
<td>Classics</td>
<td>5</td>
</tr>
<tr>
<td>English</td>
<td>6</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>9</td>
</tr>
<tr>
<td>Geography</td>
<td>9</td>
</tr>
<tr>
<td>Geology and Mineralogy</td>
<td>10</td>
</tr>
<tr>
<td>German</td>
<td>11</td>
</tr>
<tr>
<td>History</td>
<td>11</td>
</tr>
<tr>
<td>Journalism</td>
<td>14</td>
</tr>
<tr>
<td>Mathematics</td>
<td>15</td>
</tr>
<tr>
<td>Music</td>
<td>16</td>
</tr>
<tr>
<td>Philosophy</td>
<td>16</td>
</tr>
<tr>
<td>Physics</td>
<td>17</td>
</tr>
<tr>
<td>Political Science</td>
<td>20</td>
</tr>
<tr>
<td>Psychology</td>
<td>21</td>
</tr>
<tr>
<td>Romance Languages</td>
<td>24</td>
</tr>
<tr>
<td>Scandinavian Languages and Literature</td>
<td>25</td>
</tr>
<tr>
<td>Sociology and Social Work</td>
<td>25</td>
</tr>
<tr>
<td>Speech</td>
<td>28</td>
</tr>
<tr>
<td>Zoology</td>
<td>29</td>
</tr>
<tr>
<td>Institute of Technology</td>
<td>30-40</td>
</tr>
<tr>
<td>Administration</td>
<td>30</td>
</tr>
<tr>
<td>College of Engineering and Architecture</td>
<td>31</td>
</tr>
<tr>
<td>Aeronautical Engineering</td>
<td>31</td>
</tr>
<tr>
<td>Architecture</td>
<td>31</td>
</tr>
<tr>
<td>Civil Engineering</td>
<td>31</td>
</tr>
<tr>
<td>Drawing and Descriptive Geometry</td>
<td>32</td>
</tr>
<tr>
<td>Electrical Engineering</td>
<td>32</td>
</tr>
<tr>
<td>Engineering Experiment Station</td>
<td>33</td>
</tr>
<tr>
<td>Mathematics and Mechanics</td>
<td>33</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>34</td>
</tr>
<tr>
<td>School of Chemistry</td>
<td>35</td>
</tr>
<tr>
<td>Administration</td>
<td>35</td>
</tr>
<tr>
<td>Analytical Chemistry</td>
<td>35</td>
</tr>
<tr>
<td>Chemical Engineering</td>
<td>37</td>
</tr>
<tr>
<td>Inorganic Chemistry</td>
<td>37</td>
</tr>
</tbody>
</table>
CONTENTS

Institute of Technology—Continued

<table>
<thead>
<tr>
<th>Department</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organic Chemistry</td>
<td>38</td>
</tr>
<tr>
<td>Physical Chemistry</td>
<td>39</td>
</tr>
<tr>
<td>School of Mines and Metallurgy</td>
<td>40</td>
</tr>
<tr>
<td>Metallography</td>
<td>40</td>
</tr>
<tr>
<td>Metallurgy</td>
<td>40</td>
</tr>
<tr>
<td>Mines Experiment Station</td>
<td>40</td>
</tr>
</tbody>
</table>

Department of Agriculture

<table>
<thead>
<tr>
<th>Department</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administration</td>
<td>40-75</td>
</tr>
<tr>
<td>Agricultural Biochemistry</td>
<td>40</td>
</tr>
<tr>
<td>Agricultural Economics</td>
<td>41</td>
</tr>
<tr>
<td>Agricultural Engineering</td>
<td>43</td>
</tr>
<tr>
<td>Agricultural Extension</td>
<td>47</td>
</tr>
<tr>
<td>Agricultural Extension</td>
<td>49</td>
</tr>
<tr>
<td>Agricultural Substations</td>
<td>55</td>
</tr>
<tr>
<td>Agronomy and Plant Genetics</td>
<td>58</td>
</tr>
<tr>
<td>Animal and Poultry Husbandry</td>
<td>59</td>
</tr>
<tr>
<td>Dairy Husbandry</td>
<td>60</td>
</tr>
<tr>
<td>Entomology and Economic Zoology</td>
<td>63</td>
</tr>
<tr>
<td>Forestry</td>
<td>65</td>
</tr>
<tr>
<td>Home Economics</td>
<td>66</td>
</tr>
<tr>
<td>Horticulture</td>
<td>67</td>
</tr>
<tr>
<td>Plant Pathology and Botany</td>
<td>69</td>
</tr>
<tr>
<td>Physical Training</td>
<td>72</td>
</tr>
<tr>
<td>Publications</td>
<td>73</td>
</tr>
<tr>
<td>Rhetoric</td>
<td>73</td>
</tr>
<tr>
<td>Rural Sociology</td>
<td>73</td>
</tr>
<tr>
<td>School of Agriculture</td>
<td>73</td>
</tr>
<tr>
<td>Soils</td>
<td>73</td>
</tr>
<tr>
<td>Veterinary Medicine</td>
<td>74</td>
</tr>
</tbody>
</table>

Law School

<table>
<thead>
<tr>
<th>Department</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medical School</td>
<td>76-107</td>
</tr>
<tr>
<td>Administration</td>
<td>76</td>
</tr>
<tr>
<td>Anatomy</td>
<td>77</td>
</tr>
<tr>
<td>Bacteriology and Immunology</td>
<td>78</td>
</tr>
<tr>
<td>Medicine</td>
<td>79</td>
</tr>
<tr>
<td>Obstetrics and Gynecology</td>
<td>85</td>
</tr>
<tr>
<td>Ophthalmology and Otolaryngology</td>
<td>86</td>
</tr>
<tr>
<td>Pathology</td>
<td>87</td>
</tr>
<tr>
<td>Pediatrics</td>
<td>88</td>
</tr>
<tr>
<td>Pharmacology</td>
<td>92</td>
</tr>
<tr>
<td>Physiology</td>
<td>93</td>
</tr>
<tr>
<td>Preventive Medicine and Public Health</td>
<td>96</td>
</tr>
<tr>
<td>Surgery</td>
<td>99</td>
</tr>
<tr>
<td>School of Nursing</td>
<td>105</td>
</tr>
<tr>
<td>X-Ray Department of the University of Minnesota Hospitals</td>
<td>106</td>
</tr>
</tbody>
</table>
## CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>School of Dentistry</td>
<td>107-108</td>
</tr>
<tr>
<td>Administration</td>
<td>107</td>
</tr>
<tr>
<td>Crown and Bridge Work</td>
<td>107</td>
</tr>
<tr>
<td>Operative Dentistry</td>
<td>108</td>
</tr>
<tr>
<td>Oral Hygiene and Pathology</td>
<td>108</td>
</tr>
<tr>
<td>Orthodontia</td>
<td>108</td>
</tr>
<tr>
<td>Physiological Chemistry</td>
<td>108</td>
</tr>
<tr>
<td>Prosthetic Dentistry</td>
<td>108</td>
</tr>
<tr>
<td>College of Pharmacy</td>
<td>109-11</td>
</tr>
<tr>
<td>Administration</td>
<td>109</td>
</tr>
<tr>
<td>Pharmaceutical Chemistry</td>
<td>109</td>
</tr>
<tr>
<td>Pharmacognosy</td>
<td>109</td>
</tr>
<tr>
<td>Pharmacy</td>
<td>110</td>
</tr>
<tr>
<td>College of Education</td>
<td>111-19</td>
</tr>
<tr>
<td>Administration</td>
<td>111</td>
</tr>
<tr>
<td>Agricultural Education</td>
<td>112</td>
</tr>
<tr>
<td>Art Education</td>
<td>112</td>
</tr>
<tr>
<td>Educational Research</td>
<td>112</td>
</tr>
<tr>
<td>General Education</td>
<td>113</td>
</tr>
<tr>
<td>Home Economics Education</td>
<td>116</td>
</tr>
<tr>
<td>Trade and Industrial Education</td>
<td>117</td>
</tr>
<tr>
<td>University High School</td>
<td>117</td>
</tr>
<tr>
<td>Graduate School—Mayo Foundation</td>
<td>119-44</td>
</tr>
<tr>
<td>Administration</td>
<td>119</td>
</tr>
<tr>
<td>Bacteriology and Immunology</td>
<td>121</td>
</tr>
<tr>
<td>Biochemistry</td>
<td>121</td>
</tr>
<tr>
<td>Biophysics</td>
<td>122</td>
</tr>
<tr>
<td>Medicine</td>
<td>123</td>
</tr>
<tr>
<td>Obstetrics and Gynecology</td>
<td>130</td>
</tr>
<tr>
<td>Ophthalmology, Otology, Rhinology, and Laryngology</td>
<td>131</td>
</tr>
<tr>
<td>Pathology</td>
<td>132</td>
</tr>
<tr>
<td>Pediatrics</td>
<td>133</td>
</tr>
<tr>
<td>Physiology and Physiological Chemistry</td>
<td>134</td>
</tr>
<tr>
<td>Radiology</td>
<td>135</td>
</tr>
<tr>
<td>Surgery</td>
<td>137</td>
</tr>
<tr>
<td>School of Business Administration</td>
<td>144-48</td>
</tr>
<tr>
<td>General College</td>
<td>148-52</td>
</tr>
<tr>
<td>General Extension Division</td>
<td>152-53</td>
</tr>
<tr>
<td>Correspondence Study Department</td>
<td>153</td>
</tr>
<tr>
<td>Municipal Reference Bureau</td>
<td>153</td>
</tr>
<tr>
<td>University Library</td>
<td>153-54</td>
</tr>
<tr>
<td>Library Instruction</td>
<td>154</td>
</tr>
</tbody>
</table>
## CONTENTS

<table>
<thead>
<tr>
<th>Service / Bureau</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students' Health Service</td>
<td>154-55</td>
</tr>
<tr>
<td>Museum of Natural History</td>
<td>155</td>
</tr>
<tr>
<td>Institute of Child Welfare</td>
<td>156-58</td>
</tr>
<tr>
<td>Military Science and Tactics</td>
<td>158</td>
</tr>
<tr>
<td>Physical Education and Athletics</td>
<td>158-60</td>
</tr>
<tr>
<td>Physical Education for Women</td>
<td>160</td>
</tr>
<tr>
<td>Center for Continuation Study</td>
<td>161</td>
</tr>
<tr>
<td>University Testing Bureau</td>
<td>161</td>
</tr>
<tr>
<td>New Service</td>
<td>161</td>
</tr>
<tr>
<td>Index</td>
<td>163 ff</td>
</tr>
</tbody>
</table>
FOREWORD

A university consists of men with insatiable curiosity. It may have a fine physical plant, it may have a library filled with thousands upon thousands of the world's books and periodicals, it may have spacious laboratories, classrooms, and assembly halls, it may have many names on its faculty roster, and it may have enrolments that mount with each passing academic year. But these do not make a university. Unless there are ideas developing from the concentration of buildings, libraries, laboratories and classrooms, faculty and students, the indispensable hallmark that stamps an educational institution as a true university is wanting.

One measure of the intellectual life of any academic institution is the publication list of its staff members. The pages that follow enumerate the books and articles and critical reviews that have come from the University of Minnesota faculty during 1937-38. No one can turn these pages and study the items appearing on them without some increasing realization of one fact—that the University of Minnesota is productive of the scholarship that justly entitles it to be designated as a university in the fullest and richest meaning of that word.

Guy Stanton Ford, Acting President
PUBLICATIONS OF THE FACULTIES

ADMINISTRATION

MALCOLM M. WILLEY, Ph.D., University Dean and Assistant to the President


Reviews of


ALFRED M. WILLEY, Ph.D., University Dean and Assistant to the President


TRUE E. PETTENGILL, M.S., Assistant Registrar


Trends in the marking system at the University of Minnesota. 1937-38. 10 mimeographed pages.

THE COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

ADMINISTRATION

JOHN T. TATE, Ph.D., D.Sc., Dean of the College of Science, Literature, and the Arts and Professor of Physics


Abstracts

UNIVERSITY OF MINNESOTA


Editor Physical Review. 1937-38.
Reviews of Modern Physics. 1937-38.

ANTHROPOLOGY

ALBERT E. JENKS, Ph.D., D.Sc., Professor of Anthropology and Chairman of the Department of Anthropology


WILSON D. WALLIS, Ph.D., Professor of Anthropology


ASTRONOMY

WILLEM J. LUYTEN, Ph.D., Professor of Astronomy

"Faint stars with large proper motion." Ibid., No. 906, p. 2. 1937.

JOHN W. EVANS, M.A., Instructor in Astronomy


BORIS G. KARPOV, Ph.D., Instructor in Astronomy

Descriptive Astronomy. Minneapolis: University of Minnesota General Extension Division, Correspondence Study Department. 1937. 50 mimeographed pages.
"Proper motions larger than 0.20 found in six northern Bruce regions." Astronomical Journal, 56:201-203. 1938.
PUBLICATIONS OF THE FACULTIES

BOTANY

C. Otto Rosendahl, Ph.D., Professor of Botany and Head of the Department of Botany

George O. Burr, Ph.D., Professor of Botany
"Photoelectric spectrophotometry applied to studies in fat metabolism" (with E. S. Miller). Proceedings of the Society for Experimental Biology and Medicine, 36:726-29. 1937.

Frederic K. Butters, Ph.D., Professor of Botany
Laboratory outline for elementary taxonomy (with E. C. Abbe and G. W. Burns). 1938. 39 ditto pages.

Ernst C. Abbe, Ph.D., Assistant Professor of Botany
"An impression of northernmost Labrador as viewed from the air." Page 235 in Ibid.
Abstracts of
Laboratory outlines for Cytology II and for histological methods, revisions and additions. 1937. 18 ditto pages.

Donald B. Lawrence, Ph.D., Instructor in Botany
Lecture outline and laboratory directions and tests for class use. 1937-38. 37 mimeographed pages.

Elmer S. Miller, Ph.D., Instructor in Botany
“A precise method, with detailed calibration, for the determination of absorption coefficients; the quantitative measurement of the visible and ultraviolet absorption spectra of alpha carotene, beta carotene, and lycopene.” *Plant Physiology*, 12:667-84, 1937.


LAURENCE S. MOYER, Ph.D., Instructor in Botany

“Recent advances in the physiology of latex.” *Botanical Review*, 3:522-44. 1937.


“Electrokinetic Aspects of Surface Chemistry:


ROBERT A. PHILLIPS, B.S., Instructor in Botany and General Extension Division Instructor in Gardening


A. JOSEPH BEBER, M.S., Teaching Assistant in Botany


GEORGE W. BURNS, B.A., Teaching Assistant in Botany

Laboratory outline for elementary taxonomy (with F. K. Butters and E. C. Abbe). 1938. 39 ditto pages.

A. ORVILLE DAHL, M.S., Teaching Assistant in Botany


Abstracts of


PUBLICATIONS OF THE FACULTIES

WILLIS A. EGGLE, M.S., Teaching Assistant in Botany

MERRILL J. HENDRICKSON, B.S., Teaching Assistant in Botany
Mimeographed syllabus for class use. 1938. 15 mimeographed pages.

JOHN B. MOYLE, B.A., Teaching Assistant in Botany

JACK E. MYERS, M.S., Teaching Assistant in Botany
Mimeographed syllabus for class use. 1938. 15 mimeographed pages.

WILLIAM R. BROWN, Ph.D., National Live Stock and Meat Board Fellow


“Absorption spectra of lipids and their application to metabolic studies” (with E. S. Miller and G. O. Burr). Oil and Soap, 15:62-65. 1938.

LAWRENCE M. JONES, M.A., Organic Sea Products Corporation Fellow

J. PETER KASS, Ph.D., Research Chemist, Rockefeller Foundation

CLASSICS

MARBURY B. OGLE, Ph.D., Professor of Classics and Chairman of the Department of Classics


ROBERT V. CRAM, Ph.D., Assistant Professor of Classics
Reviews of
JOHN L. HELLER, Ph.D., Assistant Professor of Classics


Abstracts of


Material for class use. 1937-38. 40 mimeographed pages.

ENGLISH

JOSEPH M. THOMAS, Ph.D., Professor of English and Assistant Dean for the Senior College


JOSEPH W. BEACH, Ph.D., Professor of English


Reviews of


Mary M. Colum, From These Roots in *Virginia Quarterly Review*, 14:298. 1938.


H. V. Routh, Toward the Twentieth Century in *ibid.*, 14:301-302. 1938.


MARTIN B. RUUD, Ph.D., D.C.L., Professor of English


ELMER E. STOLL, Ph.D., Professor of English


HUNTINGTON BROWN, B.Litt. (Oxon.), Ph.D., Associate Professor of English


Historical outlines for class use. 1938. 10 mimeographed pages.
PUBLICATIONS OF THE FACULTIES

TREMAYNE McDOWELL, Ph.D., Associate Professor of English


"In memoriam Killis Campbell" (with F. Stovall). American Literature, 10:76. March, 1938.

CHARLES W. NICHOLS, Ph.D., Associate Professor of English


Review of T. McDowell and others, American Sketchbook in Minneapolis Journal, June 5, 1938.

MURIEL B. CARR, Ph.D., Assistant Professor of English


ELIZABETH JACKSON, Ph.D., Assistant Professor of English


HARLOW C. RICHARDSON, B.A., Assistant Professor of English


LUTHER N. BECKLUND, B.A., Instructor in English


HAROLD E. BRIGGS, M.A., Instructor in English


JOHN W. CLARK, M.A., Instructor in English


FRANCES K. DEL PLAINÉ, M.A., Instructor in English


JOHAN S. EGIlsRUD, Ph.D., Instructor in English


JOHN FITCH, M.A., Instructor in English

JOHN T. FLANAGAN, Ph.D., Instructor in English


ADAH G. GRANDY, B.L., Instructor in English


CLIFFORD I. HAGA, B.A., Instructor in English

Reviews of


LOUIS A. HASELMAYER, JR., Ph.D., Instructor in English


MANNING HAWTHORNE, M.A., Instructor in English


LORRAINE KRANHOLD, M.A., Instructor in English


Blank forms for class use. 1937. 9 mimeographed pages.

Mimeographed syllabus and book list for class use. 1937. 12 mimeographed pages.

FRANZ MONTGOMERY, M.A., Instructor in English


BEss R. DWORSKY, M.A., Teaching Assistant in English

"Taunt for a scholarly young woman" (a poem). *Literary Review*, Spring, 1937.
PUBLICATIONS OF THE FACULTIES

CLARENCE L. KULISHECK, M.A., Teaching Assistant in English
Mimeographed tests; analytical, interpretative, and factual on contemporary literature (for class use) 1937-38. 62 pages.

FINE ARTS

DAVID M. ROBB, M.F.A., Associate Professor of Fine Arts

GEOGRAPHY

DARRELL H. DAVIS, Ph.D., Professor of Geography and Head of the Department of Geography

RICHARD HARTSHORNE, Ph.D., Associate Professor of Geography
Reviews of

RALPH H. BROWN, Ph.D., Assistant Professor of Geography
"An early chapter in American geography." Ibid., 28:42. 1938.
Reviews of
J. C. Webster, Acadia at the End of the Seventeenth Century in ibid., 27:687-88. 1937.
Carroll D. Clark and Roy L. Roberts, People of Kansas in ibid., 28:341-42. 1938.
SAMUEL N. DICKEN, Ph.D., Assistant Professor of Geography


GEORGE F. BRIGHTMAN, M.S., Assistant in Geography


GEOLOGY AND MINERALOGY

WILLIAM H. EMMONS, Ph.D., Professor of Geology, Head of the Department of Geology and Mineralogy, and Director of the Minnesota Geological Survey


FRANK F. GROUT, Ph.D., Professor of Geology


JOHN W. GRUNER, Ph.D., Associate Professor of Geology and Mineralogy


GEORGE M. SCHWARTZ, Ph.D., Associate Professor of Geology


GEORGE A. THIEL, Ph.D., Associate Professor of Geology and Mineralogy

"The geology of Traverse and Bigstone Counties, Western Minnesota." *Oil and Gas Journal*, 36:27. 1937.


DUNCAN McCONNELL, M.S., Instructor in Geology and Mineralogy


GERMAN

CARL P. KLITZKE, Ph.D., Instructor in German


DONALD F. MUNRO, Ph.D., Instructor in German

*Correspondence Course in German Composition*. Introduction, eleven lessons, examinations. Minneapolis: University of Minnesota Mimeograph Department. 1938. 30 mimeographed pages.

HISTORY

LESTER B. SHIPPEE, Ph.D., Professor of History and Chairman of the Department of History


Reviews of


THEODORE C. BLEGEN, Ph.D., L.H.D., Professor of History


C. C. Qualey, Norwegian Settlement in the United States. 1938.

ALFRED L. BURT, M.A. (Oxon.), Professor of History


HERBERT HEATON, M.A., M.Com., Litt.D., Professor of Economic History

Reviews of
B. W. Knight, How To Run a War in Journal of Social Philosophy, 3:76-78. October, 1937.

AUGUST C. KREY, Ph.D., Professor of History

Reviews of
Charles A. Beard, James H. Robinson, and Donnal V. Smith, History of Civilization: Our Own Age in ibid., 2:286-87. April, 1938.
Guy Stanton Ford, On and Off the Campus in Minnesota Daily, June 2, 1938.

GEORGE M. STEPHENSON, Ph.D., Litt.D., Ph.D. honoris causa (Uppsala), Professor of History

Reviews of

ALBERT B. WHITE, Ph.D., Professor of History

Reviews of

LAWRENCE D. STEEFEL, Ph.D., Associate Professor of History

Reviews of

HAROLD C. DEUTSCH, Ph.D., Assistant Professor of History


Reviews of

ERNEST S. OSGOOD, Ph.D., Assistant Professor of History


TOM B. JONES, Ph.D., Instructor in History

RODNEY C. LOEHR, M.A., Teaching Assistant in History


PHILIP H. OVERMEYER, M.S., Teaching Assistant in History


JOURNALISM

RALPH D. CASEY, Ph.D., Professor of Journalism


THOMAS F. BARNHART, M.A., Professor of Journalism

"What Minnesota editors are doing to meet higher production costs." *Proceedings of the Minnesota Editorial Association for the Seventy-second Annual Convention*, pp. 24-29. 1938.


"The rise of tabloid weekly newspapers in Minnesota." Ibid., Vol. 12, No. 4, p. 5. April, 1938.


"Survey of Minnesota papers show many ways in which publishers can cut costs. Ibid., Vol. 73, No. 17, p. 7. April 23, 1938.

Reviews of


Editor, Printing Department, *Scholastic Editor*, 1937-38.

RALPH O. NAFFZIGER, Ph.D., Professor of Journalism


Reviews of
Editor, Foreign Press Department, *Journalism Quarterly*. 1937-38.

MITCHELL V. CHARNLEY, M.A., Associate Professor of Journalism and Acting Chairman of the Department of Journalism

Reviews of
Ralph Rogers, *Do's and Don'ts of Radio Writing* in *ibid.*, 14:284. 1937.
Wythe Williams, *Dusk of Empire* in *ibid.*, 15:57. 1938.
Associate editor, *Quill*, 1937-38.

EDWIN H. FORD, M.A., M.S., Assistant Professor of Journalism


Reviews of

FRED L. KILDOW, B.A., Assistant Professor of Journalism


Associate editor, *Scholastic Editor*, 1936-37, 1937-38.
Helps from the N.S.P.A. Monthly service department in *Scholastic Editor* with reprints going to 2,000 members of the National Scholastic Press Association. 1937-38.

RUSSELL I. THACKREY, M.S., Assistant Professor of Journalism


Reviews of
Articles in *The Kansas Magazine*. 1938.
Articles in *The Little Kansas Magazine*. 1938.

MATHEMATICS

WILLIAM L. HART, Ph.D., Professor of Mathematics and Chairman of the Department of Mathematics

RAYMOND W. BRINK, Ph.D., Professor of Mathematics

*Exercises in Intermediate Algebra* (with Elizabeth Carlson and Ella Thorp). Minneapolis: University of Minnesota Mimeograph Department. 1937. 32 pages.

DUNHAM JACKSON, Ph.D., Professor of Mathematics


ELIZABETH CARLSON, Ph.D., Assistant Professor of Mathematics


JOEL L. BRENNER, Ph.D., Instructor in Mathematics


ELLA THORP, B.A., Instructor in Mathematics


MUSIC

GERALD R. PRESCOTT, M.A., Bandmaster and Instructor in Music


PHILOSOPHY

DAVID F. SWENSON, B.S., Professor of Philosophy and Chairman of the Department of Philosophy


GEORGE P. CONGER, Ph.D., Professor of Philosophy


ALBREY CASTELL, Ph.D., Assistant Professor of Philosophy


MILLARD S. EVERETT, Ph.D., Assistant Professor of Philosophy

K. SVERRE NORBERG, S.T.D., Ph.D., Lecturer in Philosophy


"Filosofens stilling ved et amerikansktt universitet." Aftenposten (Oslo, Norway). October 10, 1937.

W. DONALD OLIVER, Ph.D., Instructor in Philosophy


PHYSICS

HENRY A. ERIKSON, Ph.D., Professor of Physics and Chairman of the Department of Physics


LOU ALLEN F. MILLER, Ph.D., Professor of Physics


J. WILLIAM BUCHTA, Ph.D., Associate Professor of Physics


Reviews of Modern Physics, 1937-38.

EDWARD L. HILL, Ph.D., Associate Professor of Physics


Reviews of


JOSEPH VALASEK, Ph.D., Associate Professor of Physics

Reviews of

JOHN H. WILLIAMS, Ph.D., Associate Professor of Physics


LYNN H. RUMBAUGH, Ph.D., Assistant Professor of Physics


WILFRED W. WETZEL, Ph.D., Assistant Professor of Geophysics


HOFF LU, B.S., Teaching Assistant in Physics


WILLIAM G. SHEPHERD, B.E.E., Teaching Assistant in Physics

"A search for protons from Li bombarded by RaC' a-particles" (with E. L. Hill and R. O. Haxby). Ibid., 52:674-78. 1937.
JAMES S. ALLEN, Ph.D., Research Assistant in Physics


RICHARD F. BAKER, Ph.D., Research Assistant in Physics


Abstracts of

"Ionization and dissociation by electron impact in CC1,F, and CC1,N vapor" (with J. T. Tate). *Physical Review*, 53:683. April 15, 1938.


ROBERT O. HAXBY, B.E.E., Research Assistant in Physics


POLYKARP KUSCH, Ph.D., Research Assistant in Physics


ROLF LANDSHEOFF, DR. ING. (Technische Hochschule, Berlin), Research Assistant in Physics


POLITICAL SCIENCE

WILLIAM ANDERSON, Ph.D., Professor of Political Science and Chairman of the Department of Political Science

Editor "Municipal affairs." American Political Science Review, 1937.

OLIVER P. FIELD, M.A., LL.B., S.J.D., Professor of Political Science


HAROLD S. QUIGLEY, Ph.D., LL.D., Professor of Political Science

Peace or War? A Conference. (Day and Hour Series, Nos. 17 and 18.) Minneapolis: University of Minnesota Press. 1937. 205 pages.
Reviews of

LLOYD M. SHORT, Ph.D., Professor of Political Science


LENNOX A. MILLS, Ph.D., Associate Professor of Political Science

Reviews of
PUBLICATIONS OF THE FACULTIES

Benjamin E. Lippincott, Ph.D., Assistant Professor of Political Science


"What is socialism?" (with N. Finney). Minneapolis Star, April 25, 1938.

"Socialism in Russia" (with N. Finney). Ibid., April 26, 1938.

"What is fascism?" (with N. Finney). Ibid., April 27, 1938.

"Fascism in operation" (with N. Finney). Ibid., April 28, 1938.

Joseph R. Starr, Ph.D., Assistant Professor of Political Science


Reviews of

Asher N. Christensen, B.A., Instructor in Political Science

Syllabus in Recent Social Legislation. 1937. 6 mimeographed pages.
Syllabus in American Government and Politics. 1937. 7 mimeographed pages.
Syllabus in Functions of Government. 1937. 3 mimeographed pages.

Charles H. McLaughlin, M.A., LL.B., Instructor in Political Science


Reviews of
Mimeographed syllabus for class use: Introduction to Government for Prelegal Students. 1937. 15 pages.

Mulford Q. Sibley, M.A., Instructor in Political Science


Psychology

Richard M. Elliott, Ph.D., Professor of Psychology and Chairman of the Department of Psychology


Staff of the Institute for Juvenile Research (Chicago), Child Guidance Procedures. 1937. (Mimeographed.)
CHARLES BIRD, Ph.D., Professor of Psychology


DONALD G. PATERSON, M.A., Professor of Psychology


WILLIAM T. HERON, Ph.D., Associate Professor of Psychology


Editor, Comparative Psychology Number, *Psychological Bulletin*. 1937.

Co-operating editor, *Journal of Comparative Psychology*. 1937.

MILES A. TINKER, Ph.D., Associate Professor of Psychology


"Estimation of temporal intervals." Experiment 26, pages 85-86 in *ibid.*


Reviews of


KENNETH H. BAKER, Ph.D., Assistant Professor of Psychology


HOWARD P. LONGSTAFF, Ph.D., Assistant Professor of Psychology


B. FRÉDÉRIC SKINNER, Ph.D., Assistant Professor of Psychology


Reviews of


Editor, Experimental section. *Psychological Record*, 1937-38.

BRENT N. BAXTER, B.A., Teaching Assistant in Psychology


STUART W. COOK, M.A., Teaching Assistant in Psychology


GERTRUDE R. DIETZ, B.A., Teaching Assistant in Psychology

Minnesota job interest blank for men. Minneapolis: University of Minnesota Mimeograph Department. 1938. 7 pages.

RAY C. HACKMAN, M.A., Teaching Assistant in Psychology

ROBERT E. HARRIS, B.A., Teaching Assistant in Psychology


ROBERT SELOVER, M.A., Teaching Assistant in Psychology


EVELYN RASKIN, Ph.D., Assistant in Psychology


ROMANCE LANGUAGES

IRVILLE C. LECOMpte, Ph.D., Professor of Romance Languages


COlBERT SEARLES, Ph.D., Professor of Romance Languages

Reviews of


RAYMOND L. GRISMER, Ph.D., Associate Professor of Romance Languages

*Bibliography of Books on Mexico* (with M. B. MacDonald). Minneapolis: Minneapolis Public Schools Adult Education. 1937. 12 pages.


Review of


WALTER T. PATTISON, Ph.D., Associate Professor of Romance Languages

Reviews of


DORIS K. ARJONA, Ph.D., Assistant Professor of Romance Languages

PUBLICATIONS OF THE FACULTIES

EMILIO C. LEFORT, Ph.D., Assistant Professor of Romance Languages


PAUL A. MINAULT, M.A., Professorial Lecturer in Romance Languages

Two poems in Literary Supplement of Minnesota Daily. Spring, 1937.

SCANDINAVIAN LANGUAGES AND LITERATURE

ANDREW A. STOMBERG, M.A., Litt.D., Professor of Scandinavian Languages and Literature and Chairman of the Department of Scandinavian Languages


SOCIOLOGY AND SOCIAL WORK

F. STUART CHAPIN, Ph.D., Professor of Sociology, Chairman of the Department of Sociology, and Director of the Graduate Course in Social Work

Editor, Harpers Social Science Series, 1937-38.
Advisory editor, American Journal of Sociology, 1937-38.
Contributing editor
Rural Sociology, 1937-38.
Co-operating editor, Sociology and Social Research, 1937-38.

CLIFFORD KIRKPATRICK, Ph.D., Professor of Sociology


GEORGE B. VOLD, Ph.D., Professor of Sociology


ANNE F. FENLASON, M.A., Associate Professor of Sociology


ALICE L. SHEA, Ph.D., Associate Professor of Sociology


GERTRUDE VAILE, M.A., Associate Professor of Sociology


ELIZABETH G. GARDINER, M.A., Assistant Professor of Sociology


ELIO D. MONACHERI, Ph.D., Assistant Professor of Sociology

Reviews of


**Calvin F. Schmid**, Ph.D., Assistant Professor of Sociology


**Raymond F. Sletto**, Ph.D., Assistant Professor of Sociology


*Building the University of Tomorrow* (with C. R. Pace, M. S. MacLean, and others). Minneapolis: University of Minnesota Printing Department. 1937. 52 pages.

**Elsa Castendyck**, B.A., Lecturer in Sociology


**Louise M. Clevenger**, B.S., Lecturer in Sociology


**Pierce Atwater**, B.A., Lecturer in Sociology


**Joseph E. Nuquist**, M.A., Instructor in Sociology


**F. Joseph Schneider**, Ph.D., Instructor in Sociology


**Howard Forsyth**, M.S., Teaching Assistant in Sociology


**Mary L. Huff**, M.A., Assistant in Sociology

"Some concepts of social case work" (with Anne F. Fenlason and Julius Ratner). *Journal of Social Forces*, 16:75-83. October, 1937.

UNIVERSITY OF MINNESOTA

SPEECH

FRANK M. RARIG, M.A., Professor of Speech and Chairman of the Department of Speech

Reviews of

BRYNG BRYNGELSON, Ph.D., Associate Professor of Speech and Director of the Speech Clinic


HOWARD GILKINSON, Ph.D., Assistant Professor of Speech

A Questionnaire for Students of Speech, Form B (with F. H. Knowler). Minneapolis: University of Minnesota Printing Department. 1937. 8 pages.
Speech Problem Survey Scale, Form B (with F. H. Knowler). Minneapolis: University of Minnesota Printing Department. 1937. 1 page.

FRANKLIN H. KNOWLER, Ph.D., Assistant Professor of Speech

A Questionnaire for Students of Speech, Form B (with H. Gilkinson). Minneapolis: University of Minnesota Printing Department. 1937. 8 pages.
Speech Experience Inventory. Chicago: C. H. Stoelting Co. 1938. 4 pages.
Interpretation, Scoring Directions and Norms for Speech Attitude Scale and Speech Experience Inventory. Chicago: C. H. Stoelting Co. 1938. 8 pages.
Pronunciation Test Forms. University of Minnesota Mimeograph Department. 1938. 20 mimeographed pages.
A Speech Problem Survey Scale, Form B (with H. Gilkinson). 1937. 1 page.
S. C. (Speech Convention) Scale, Form B. 1937. 3 pages.
"Graduate theses—an index of graduate work in the field of speech. Speech Monographs, 4:1-16. 1937.
A Report of a Study of Degrees of Experienced Ease and Differences in Attitude of Good and Poor Speakers for Various Functional Speech Activities. University of Minnesota Mimeograph Department. 1937. 5 mimeographed pages.
PUBLICATIONS OF THE FACULTIES

E. WILLIAM ZIEBARTH, Ph.M., Instructor in Speech


Production Directions for the Radio Actor. Minneapolis: University of Minnesota Mimeograph Department. 1938. 4 pages.

Sound Effects. Minneapolis: University of Minnesota Mimeograph Department. 1938. 5 pages.

ZOOLOGY

SAMUEL EDDY, Ph.D., Associate Professor of Zoology

A Laboratory Manual for Aquatic Ecology. Minneapolis: University of Minnesota Mimeograph Department. 1938. 54 pages.


ADOLPH R. RINGOEN, Ph.D., Associate Professor of Zoology


RALPH W. DAWSON, Ph.D., Assistant Professor of Zoology


CLARENCE P. OLIVER, Ph.D., Assistant Professor of Zoology


"A chromosome unbalance in Drosophila melanogaster which imitates the gene facet." Genetics, 23:162. 1938.

H. BURR STEINBACH, Ph.D., Assistant Professor of Zoology


JOHN P. TURNER, Ph.D., Assistant Professor of Zoology


MAGNUS OLSON, Ph.D., Instructor in Education and Zoology


HUBERT W. FRINGS, M.S., Teaching Assistant in Zoology


"Aquarium-Aeration and Aquarium-Life:

MARY J. GOTSCHALL, B.S., Teaching Assistant in Zoology

CHARLES B. REIF, M.A., Teaching Assistant in Zoology
"The birds of Frenchman's Bay during the summer of 1937." Flicker, Vol. 10, Nos. 1 and 2. 1938.

JAMES W. WARD, M.S., M.A., Teaching Assistant in Zoology
"Notes on the taxonomy and biology of some mosquitoes in Mississippi." Mississippi Academy of Science. 1937.

INSTITUTE OF TECHNOLOGY

ADMINISTRATION

SAMUEL C. LIND, Ph.D., D.Sc., Professor of Physical Chemistry and Dean of the Institute of Technology
"The chemical effect of electrical discharge in gaseous hydrocarbons. IX. The condensation of ethane, propane, butane, and propylene as a function of time, and comparison of rates of condensation of lower members of the paraffin, olefin, and acetylene series" (with G. R. Schultze). Ibid., 42:547-58. April, 1938.

Reviews of
PUBLICATIONS OF THE FACULTIES

Abridged Scientific Publication from the Kodak Research Laboratories in *ibid.*, 42:695. May, 1938.

COLLEGE OF ENGINEERING AND ARCHITECTURE

AERONAUTICAL ENGINEERING

JEAN F. PICCARD, Dipl. Chem. Eng., Dr. Nat. Sc., Professor of Aeronautical Engineering


The Voyage of the Pleiades. 1937. 13 mimeographed pages.

ARCHITECTURE

ROY C. JONES, M.S. Arch., F.A.I.A., Professor of Architecture and Head of the School of Architecture


LEON ARNAL, Architecte Diplôme par le Gouvernement Français, Professor of Architecture


S. CHATWOOD BURTON, M.A., Professor of Fine Arts
*Spain Poised*. Minneapolis: University of Minnesota Press. 1937. 48 pages.

ROBERT T. JONES B.S. (Arch.), Professor of Architecture
Editor, The Home Builders' Clinic, a syndicated release to newspapers. 1937-38.

LEROY TURNER, Instructor in Architecture


CIVIL ENGINEERING

FRED C. LANG, C.E., Professor of Highway Engineering


UNIVERSITY OF MINNESOTA

"Broad gaps are still open in highway research." Engineering News-Record, 118:18-20. 1937.

"Combating frost and drainage problems." Proceedings of Twenty-third Annual Road School Held at Purdue University, 21:46-56. 1937.


JOSEPH A. WISE, B.S.(C.E.), Associate Professor of Structural Engineering


"The hingeless arch rib." Pages 320-30 in ibid.


"Segmental division for arch analysis." Civil Engineering, 8:34. January, 1938.


PAUL ANDERSEN, Ph.D., Assistant Professor of Structural Engineering


DRAWING AND DESCRIPTIVE GEOMETRY

ALEX S. LEVENS, C.E., Assistant Professor of Drawing and Descriptive Geometry


ORRIN W. POTTER, E.M., M.S., Assistant Professor of Drawing and Descriptive Geometry

Descriptive Geometry Problems. Minneapolis: University of Minnesota Mimeograph Department. 1938. 32 pages.

ELECTRICAL ENGINEERING

JOHN M. BRYANT, M.S., E.E., Professor of Electrical Engineering and Head of the Department of Electrical Engineering


ELMER W. JOHNSON, M.E., E.E., Associate Professor of Electric Power Engineering

JAMES S. WEBB, Ph.D., Associate Professor of Radio Engineering


LOYST C. CAVERLEY, M.S.(E.E.), Assistant Professor of Electric Power Engineering


ENGINEERING EXPERIMENT STATION

FRANK B. ROWLEY, M.E., Professor of Mechanical Engineering and Director of the Engineering Experiment Station


AXEL B. ALGREN, M.S.(M.E.), Assistant Professor of Mechanical Engineering and Assistant Director of the Engineering Experiment Station


RUSSELL M. CARLSON, M.Aero.E., Research Assistant, Engineering Experiment Station


CLARENCE E. LUND, M.S., Mechanical Engineer on National Rock and Slag Wool Research Fund


MATHEMATICS AND MECHANICS

WILLIAM E. BROOKE, B.C.E., M.A., Professor of Mathematics and Mechanics and Head of the Department of Mathematics and Mechanics

HANS H. DALAKER, Ph.D., Professor of Mathematics

Preliminary and partial layout of an advanced calculus (with M. G. Scherberg). 1937. 125 hectographed pages.

LORENZ G. STRAUB, Ph.D., C.E., Professor of Hydraulics and Administrative Assistant, College of Engineering and Architecture

Bibliography of Hydrology, United States of America, for the Years 1935 and 1936 (with others). Publication of the International Association of Scientific Hydrology. 1937. 78 pages.


Editor

Papers on stream dynamics presented at meetings of the American Geophysical Union, Transactions of the American Geophysical Union. 1937.


HUGH B. WILCOX, M.S., Associate Professor of Mechanics


CHARLES T. BOEHNLEIN, M.E., Assistant Professor of Mathematics, Mechanics, and Aerodynamics

Mimeographed notes on the Mechanics of Fluids. 1938. 85 pages.

HARRY A. DOERINGSFELD, C.E., Assistant Professor of Mathematics and Mechanics


RODERICK W. SILER, B.S., Assistant Professor of Mathematics and Mechanics


JOHN F. RIPKEN, B.C.E., Instructor in Mathematics and Mechanics


MAX G. SCHERBERG, Ph.D., Instructor in Mathematics and Mechanics


MECHANICAL ENGINEERING

JOHN V. MARTENS, M.E., Associate Professor of Mechanical Engineering

PUBLICATIONS OF THE FACULTIES

BURLTON J. ROBERTSON, E.E., Associate Professor of Internal Combustion Engines

THOMAS P. HUGHES, M.S. (Met.), Assistant Professor of Mechanical Engineering
Some Types of Welded Joints with Strength Calculations. Minneapolis: University of Minnesota Mimeograph Department. 6 pages. 1937.
Examples of Good and Poor Welds. Minneapolis: University of Minnesota Mimeograph Department. 2 pages. 1937.
The Manufacture of Iron. A study of the blast furnaces with selected references. Minneapolis: University of Minnesota Mimeograph Department. 8 pages. 1937.

WILLIAM H. RICHARDS, E.E., Assistant Professor of Mechanical Engineering
Charts and lesson sheets for training in the industrial arts in woodworking, furniture construction, finish, and design. Three charts, mimeograph lesson sheets. 1937-38.

JAMES J. RYAN, M.M.E., M.E., Assistant Professor of Mechanical Engineering

FULTON HOLTBY, M.E., Instructor in Mechanical Engineering
Mimeographed material and tests for class use. 1937-38. 23 pages.

SCHOOL OF CHEMISTRY

ADMINISTRATION

LLOYD H. REYERSON, Ph.D., Professor of Chemistry and Administrative Assistant

ANAlytical CHEMISTRY

IZAAK M. KOLTHOFF, Ph.D., Professor of Analytical Chemistry and Chief of the Division of Analytical Chemistry


Reviews of


American editor, *Microchimica Acta* (Published in Vienna, Austria).

**ERNEST B. SANDELL**, Ph.D., Assistant Professor of Analytical Chemistry


**LESTER S. G U S S**, Teaching Assistant in Analytical Chemistry

PUBLICATIONS OF THE FACULTIES 37

WILLIAM M. MACNEVIN, Ph.D., Assistant in Analytical Chemistry
"The determination of the specific surface of barium sulfate" (with I. M. Kolthoff). Journal of the American Chemical Society, 59:1639-43. 1937.

JAMES J. LINGANE, B.Ch., J. T. Baker Chemical Company Fellow

CHEMICAL ENGINEERING

CHARLES A. MANN, Ph.D., Professor of Chemical Engineering and Chief of the Division of Chemical Engineering

Reviews of

MARVIN C. ROGERS, Ph.D., Assistant Professor of Chemical Engineering
Unit Operations Laboratory Experiments (with E. L. Piret). 1938. 8 mimeographed pages.

CORNELIUS S. GROVE, JR., M.S., Instructor in Chemical Engineering
Problems for class use. 1937-38. 10 mimeographed pages.

EDGAR L. PIRET, Ph.D., Instructor in Chemical Engineering
Unit Operations Laboratory Experiments (with M. C. Rogers). 1938. 8 mimeographed pages.

BYRON E. LAUER, M.A., Assistant in Chemical Engineering

INORGANIC CHEMISTRY

M. CANNON SNEED, Ph.D., Professor of Inorganic Chemistry and Chief of the Division of Inorganic Chemistry
GLADSTONE B. HEISIG, Ph.D., Assistant Professor of Inorganic Chemistry

Cooperative Chemistry Test (with others). New York City: Cooperative Test Service. 1937. 12 pages.


HAROLD P. KLUG, Ph.D., Assistant Professor of Inorganic Chemistry


COURTLAND L. AGRE, Ph.D., Teaching Assistant in Inorganic Chemistry


"Side chain bromination of prehnitene and some 2, 3, 6-trimethylphenyl derivatives" (with L. I. Smith). Ibid., 60:652-54. 1938.

ARTHUR W. WISHART, B.Ch., Teaching Assistant in Inorganic Chemistry


ORGANIC CHEMISTRY

LEE I. SMITH, Ph.D., Professor of Organic Chemistry and Chief of the Division of Organic Chemistry


"Side chain bromination of prehnitene and some 2, 3, 6-trimethylphenyl derivatives" (with C. L. Agre). Ibid., 60:652-54. 1938.

"The reaction between methylates quinones and sodium enolates. VIII. Mechanism. The addition of sodium malonic ester to a methylene quinone" (with J. W. Horner, Jr.). Ibid., 60:676-78. 1938.

Member of Board of Editors, Journal of Organic Chemistry, 1936 to date.
Member of Board of Editors, Organic Syntheses, 1937 to date.

C. FREDERICK KOELSCH, Ph.D., Associate Professor of Organic Chemistry


"The action of lithium on a, a, a, a'-pentaphenyl propylene" (with R. H. Rosenwald). Ibid., 59:2170-71. 1937.

WALTER M. LAUER, Ph.D., Associate Professor of Organic Chemistry


RICHARD T. ARNOLD, Ph.D., Instructor in Organic Chemistry

FRANKLIN L. AUSTIN, B.S., Teaching Assistant in Organic Chemistry

JAMES W. HORNER, JR., B.Ch., Teaching Assistant in Organic Chemistry
"The reaction between methylated quinones and sodium enolates. VIII. Mechanism. The addition of sodium malonic ester to a methylene quinone" (with L. I. Smith). *Journal of the American Chemical Society*, 60:676-78. 1938.

**PHYSICAL CHEMISTRY**

GEORGE GLOCKLER, Ph.D., Professor of Physical Chemistry
"Chemistry all around us." *Minnesota Chats*, 20, No. 4, pp. 1, 2, 4. December 2, 1937.

Reviews of

ROBERT S. LIVINGSTON, Ph.D., Associate Professor of Physical Chemistry

Reviews of

CHESTER H. SCHIFLETT, Ph.D., Research Assistant in Physical Chemistry

MALCOLM M. RENFREW, B.S., du Pont Fellow in Physical Chemistry

FREDERICK T. WALL, Ph.D., Shevlin Fellow in Physical Chemistry
UNIVERSITY OF MINNESOTA

SCHOOL OF MINES AND METALLURGY

METALLOGRAPHY

RALPH L. DOWDELL, Met.E., Ph.D., Professor of Metallography


ARTHUR C. FORSYTH, Met.E., Ph.D., Instructor in Metallography

"Natural versus artificial textures of copper arsenides" (with G. M. Schwartz). Economic Geology, 32:896-905. 1937.

METALLURGY

THOMAS L. JOSEPH, M.A., Professor of Metallurgy


JOHN N. SEARLES, E.M., M.S., Assistant Professor of Metallurgy


FRANK W. SCOTT, B.S. in Ch.E., Instructor in Metallurgy


MINES EXPERIMENT STATION

JOHN J. CRAIG, E.M., Assistant Metallurgist, Mines Experiment Station


THE DEPARTMENT OF AGRICULTURE

ADMINISTRATION

WALTER C. COFFEY, M.S., LL.D., Dean and Director of the Department of Agriculture


**ANDREW BOSS, D.Sc., Professor of Agriculture, Emeritus**


**ROGER S. MACKINTOSH, M.S., Assistant Professor and Exhibits Specialist**


**AGRICULTURAL BIOCHEMISTRY**

**ROSS A. GORTNER, Ph.D., D.Sc., Professor of Agricultural Biochemistry and Chief of the Division of Agricultural Biochemistry**


**CLYDE H. BAILEY, Ph.D., Professor of Agricultural Biochemistry**

*Minerals for Farm Animals.* (Revised.) University of Minnesota Agricultural Extension Division Special Bulletin No. 94. 1938. 11 pages.


"Chemical constitution of the oils from superior and inferior flaxseeds" (with R. A. Gross). *Oil and Soap*, 14:260-63. 1937.


Reviews of


LEROY S. PALMER, Ph.D., Professor of Agricultural Biochemistry

The Oxidized Flavor in Milk from the Individual Cow (with C. D. Dahle). Pennsylvania State College School of Agriculture and Experiment Station Bulletin No. 347. 1937. 27 pages.

How To Use Prairie Hay for Lambs (with D. W. Johnson). University of Minnesota Agricultural Extension Division Folder No. 65. 1938. 5 pages.

Minerals for Farm Animals. (Revised.) University of Minnesota Agricultural Extension Division Special Bulletin No. 94. 1938. 11 pages.


Reviews of


The chemistry of proteins in relation to nutritive value. 1 mimeographed page.

Chemistry of the vitamins. 2 mimeographed pages.

Nutrients in cow's milk per 100 caloric portion in relation to requirements. 2 mimeographed pages.

DAVID R. BRIGGS, Ph.D., Associate Professor of Agricultural Biochemistry


W. MARTIN SANDESTROM, Ph.D., Associate Professor of Agricultural Biochemistry


ELEANOR BARNES, M.S., Instructor in Agricultural Biochemistry

Revised laboratory instructions and tests for Quantitative Methods (with C. F. Rogers). 30 mimeographed pages.

ERIC KNEEN, M.S., Instructor in Agricultural Biochemistry

"A simplified technic for the determination of contact angles and its application to studies on wetting" (with W. W. Benton). Journal of Physical Chemistry, 41:1195-1203. 1937.

MAX A. LAUFFER, Ph.D., Instructor in Agricultural Biochemistry

Max C. Markley, Ph.D., Instructor in Agricultural Biochemistry


Charles F. Rogers, M.S., Instructor in Agricultural Biochemistry


"Beware of frosted sorghum the morning after freezing." *Cedar Rapids (Iowa) Gazette*, October 13, 1937.

Some Notes on Silage Formation, Acidity, and Action of Acids. Minneapolis: University of Minnesota Mimeograph Department. 1937. 15 pages.

Revised laboratory instructions and tests for Quantitative Methods (with Eleanor Barnes). 30 mimeographed pages.

Edgar P. Painter, M.S., Assistant in Agricultural Biochemistry


Samuel I. Aronovsky, Ph.D., Cloquet Wood Products Research Fellow


Webster W. Benton, M.S., Graduate Student in Agricultural Biochemistry

"A simplified technic for the determination of contact angles and its application to studies on wetting" (with E. Kneen). *Journal of Physical Chemistry*, 41:1195-1203. 1937.

AGRICULTURAL ECONOMICS

Oscar B. Jesness, Ph.D., Professor of Agricultural Economics and Chief of the Division of Agricultural Economics

*Organization and Operation of Minnesota Cooperative Creameries* (with E. F. Koller). University of Minnesota Agricultural Experiment Station Bulletin No. 333. 1937. 82 pages.


AUSTIN A. DOWELL, Ph.D., Professor of Agricultural Economics


WARREN C. WAITE, Ph.D., Professor of Agricultural Economics


District Indexes of Prices, Quantities and Value of Cash Sales of Minnesota Farm Products (with W. B. Garver). University of Minnesota Agricultural Experiment Station Bulletin No. 335. 1937. 23 pages.


Reviews of


GEORGE A. POND, Ph.D., Associate Professor of Agricultural Economics


"Ten years of farm records in southeastern Minnesota" (with W. P. Ranney). Minnesota Farm Business Notes, No. 185. May, 1938. 3 mimeographed pages.

REX W. COX, Ph.D., Assistant Professor of Agricultural Economics


"Crop price movements following harvest." Minnesota Farm Business Notes, No. 178. October, 1937. 3 mimeographed pages.

ROLAND C. BEVAN, M.S., Instructor in Agricultural Economics

"Using records to increase farm earnings." Minnesota Farm Business Notes, No. 179. November, 1937. 3 mimeographed pages.

SELMER A. ENGENE, B.S., Instructor in Agricultural Economics


"Variability of crop yields in Minnesota." Minnesota Farm Business Notes, No. 184. April, 1938. 3 mimeographed pages.

E. FRED KOLLER, M.A., Instructor in Agricultural Economics

Organization and Operation of Minnesota Cooperative Creameries (with O. B. Jesness). University of Minnesota Agricultural Experiment Station Bulletin No. 333. 1937. 82 pages.


WILLARD P. RANNEY, M.S., Instructor in Agricultural Economics


**WALTER B. GARVER,** Research Assistant in Agricultural Economics

*District Indexes of Prices, Quantities and Value of Cash Sales of Minnesota Farm Products* (with W. C. Waite). University of Minnesota Agricultural Experiment Station Bulletin No. 335. 1937. 23 pages.


**G. LEROY PETERSON,** M.A., Research Assistant in Agricultural Economics

"Short term lending to farmers by country banks." *Minnesota Farm Business Notes*, No. 177. September, 1937. 3 mimeographed pages.

**FRED E. WETHERILL,** Field Agent in Agricultural Economics


**AGRICULTURAL ENGINEERING**

**WILLIAM BOSS**, Professor of Agricultural Engineering and Chief of the Division of Agricultural Engineering


**HARRY B. ROE,** C.E., Professor of Agricultural Engineering

*Soil Erosion Control in Farm Operation* (with J. H. Neal). (Revised.) University of Minnesota Agricultural Extension Division Special Bulletin No. 170. 1937. 20 pages.


**ARTHUR J. SCHWANTES,** M.S., Associate Professor of Agricultural Engineering

*Filling Silos with the Field Ensilage Harvester* (with J. B. Torrance). (Revised.) University of Minnesota Agricultural Experiment Station Bulletin No. 290. 1937. 24 pages.
Harvesting with the Combine in Minnesota. University of Minnesota Agricultural Extension Division Folder No. 66. 1938. 6 pages.


ANDREW HUSTRULID, Ph.D., Assistant Professor of Agricultural Engineering


"Dissociation processes produced in SbCl₃, AsCl₃ and PCl₃ by electron impact" (with P. Kusch and J. T. Tate). Ibid., 52:840-42. 1937.

"The dissociation of HCN, C₂H₂, C₃N₂ and C₄H₄ by electron impact" (with P. Kusch and J. T. Tate). Ibid., 52:843-54. 1937.


JESSE H. NEAL, Ag.E., Ph.D., Assistant Professor of Agricultural Engineering

Soil Erosion Control in Farm Operation (with H. B. Roe). (Revised.) University of Minnesota Agricultural Extension Division Special Bulletin No. 170. 1937. 20 pages.


JAMES B. TORRANCE, B.S., Assistant Professor of Agricultural Engineering

Filling Silos with the Field Ensilage Harvester (with A. J. Schwantes). (Revised.) University of Minnesota Agricultural Experiment Station Bulletin No. 290. 1937. 24 pages.


ARTHUR G. TYLER, B.S., Assistant Professor of Agricultural Engineering


HALL B. WHITE, M.S., Assistant Professor of Agricultural Engineering


The Farm Shop (with C. H. Christopherson and L. W. Neubauer). University of Minnesota Agricultural Extension Division Special Bulletin No. 190. 1937. 16 pages.


PUBLICATIONS OF THE FACULTIES

CLARENCE H. CHRISTOPHERSON, M.A., Instructor in Agricultural Engineering
The Farm Shop (with H. B. White and L. W. Neubauer). University of Minnesota
Agricultural Extension Division Special Bulletin No. 190. 1937. 16 pages.
October, 1937.
Farm Building Plans (with H. B. White and L. W. Neubauer). University of Minnesota
Agricultural Extension Division Plan No. 343. 1938. 1 page.

J. GRANT DENT, Instructor in Agricultural Engineering
Mechanical Training (with William Boss and H. B. White). (Revised.) St. Paul: Bruce
Ropework. University of Minnesota Agricultural Extension Division Special Bulletin
No. 192. 1937. 28 pages.
Mimeographed tests for class use. 20 pages.

PHILLIP W. MANSON, B.S.(C.E.), Instructor in Agricultural Engineering
November, 1937.

LOREN W. NEUBAUER, M.S.(C.E.), Instructor in Agricultural Engineering
The Farm Shop (with C. H. Christopherson and H. B. White). University of Minnesota
Agricultural Extension Division Special Bulletin No. 190. 1937. 16 pages.
May, 1937.
"The electric fence. Ibid., No. 72. March, 1938.
Farm Building Plans (with H. B. White and C. H. Christopherson). University of
Minnesota Agricultural Extension Division Plan No. 343. 1938. 1 page.

DALTON G. MILLER, C.E., Senior Drainage Engineer, United States Department of Agriculture
"Factors which influence the durability of concrete stave silos." Journal of the American
Concrete Institute, Vol. 9, No. 4, pp. 381-97. 1938.

AGRICULTURAL EXTENSION

PAUL E. MILLER, M.A., Professor and Director of Agricultural Extension

THEODORE A. ERICKSON, B.S., Associate Professor of Agricultural Extension and State Club Leader
1937.
"Minnesota national 4-H campers go back to the farm." Extension Service Review,
Vol. 8, No. 6, pp. 89-90. 1937.
"Twenty-four hundred members enrolled in leadership projects." Ibid., Vol. 9, No. 1,
"The educational trip as an incentive." Ibid., Vol. 9, No. 1, p. 15. 1938.
"How to keep clubs on their toes—the Minnesota way." National 4-H Club News, Vol. 16,
No. 1, p. 5. 1938.
"T. A. Erickson gives views on work." 4-H Club News (Douglas County), Vol. 1,
No. 1, p. 1. 1937.

“4-H club members and the Ag.-Royal.” *Twenty-second Annual Ag.-Royal*, May 15, 1937.

“4-H clubs celebrate silver anniversary.” *Minneapolis Tribune*, July 18, 1937.

“4-H club work in Martin County.” *Sherburn Advance-Standard*, August 24, 1937.


Various leaflets on 4-H club work.

HAROLD R. SEARLES, B.S., Associate Professor of Agricultural Extension and Extension Dairymen

*Dairy Heifer Project*. (Revised.) University of Minnesota Agricultural Extension Division Bulletin No. 9. 1937. 8 pages.

*The Cow Testing Association* (with R. D. Leighton and E. A. Hanson). (Revised.) University of Minnesota Agricultural Extension Division Folder No. 55. 1937. 4 pages.

*The Dairy Herd Improvement Program* (with R. D. Leighton and E. A. Hanson). (Revised.) University of Minnesota Agricultural Extension Division Folder No. 57. 1937. 4 pages.

*Advanced Dairy Heifer Project*. University of Minnesota Agricultural Extension Division Bulletin No. 10. 1938. 4 pages.

Editor, Dairy Department, *Farmer*. 1937-38.

Timely articles for the Minnesota newspapers on various phases of dairy extension work.

PARKER O. ANDERSON, B.S., Assistant Professor of Agricultural Extension and Extension Forester


About 40 news articles for various country papers, extension news, and daily papers during the year on different seasonal phases of farm forestry.

Mimeographed material for use in carrying on the forestry project in the various counties.

WILLIAM A. BILLINGS, D.V.M., Assistant Professor of Agricultural Extension and Extension Veterinarian


*Turkey News Letter*. Issued monthly. 1937-38. 2 multigraphed pages.

EVA L. BLAIR, B.S., Assistant Professor of Agricultural Extension and Extension Nutritionist

Home Demonstration Syndicate Feature. Issued by the University of Minnesota Agricultural Extension Division. Published weekly in 68 country weekly newspapers in Minnesota. 1937-38.

Publicity articles for use in counties, also series of articles for newspapers of state.

Multigraphed and mimeographed subject material for nutrition project, to be used by counties carrying the project.

SPENCER B. CLELAND, M.S., Assistant Professor of Agricultural Extension and Extension Economist in Farm Management

*The 1938 Livestock Outlook for Minnesota*. University of Minnesota Agricultural Extension Division Pamphlet No. 42. 1937. 6 pages.

*Farm Planning* (with W. A. Peters). University of Minnesota Agricultural Extension Division Pamphlet No. 43 (for Minnesota type-of-farming area No. 1). 1938. 6 pages.

*Farm Planning* (with W. A. Peters). University of Minnesota Agricultural Extension Division Pamphlet No. 44 (for Minnesota type-of-farming area No. 2). 1938. 6 pages.
FARM PLANNING (with W. A. Peters). University of Minnesota Agricultural Extension Division Pamphlet No. 45 (for Minnesota type-of-farming area No. 3). 1938. 6 pages.

FARM PLANNING (with W. A. Peters). University of Minnesota Agricultural Extension Division Pamphlet No. 46 (for Minnesota type-of-farming area No. 4). 1938. 6 pages.

FARM PLANNING (with W. A. Peters). University of Minnesota Agricultural Extension Division Pamphlet No. 47 (for Minnesota type-of-farming area No. 5). 1938. 6 pages.

FARM PLANNING (with W. A. Peters). University of Minnesota Agricultural Extension Division Pamphlet No. 48 (for Minnesota type-of-farming area No. 6). 1938. 6 pages.

FARM PLANNING (with W. A. Peters). University of Minnesota Agricultural Extension Division Pamphlet No. 49 (for Minnesota type-of-farming area No. 7). 1938. 6 pages.

FARM PLANNING (with W. A. Peters). University of Minnesota Agricultural Extension Division Pamphlet No. 50 (for Minnesota type-of-farming area No. 8). 1938. 6 pages.

CORNA E. COOKE, B.S., Assistant Professor of Agricultural Extension and Extension Specialist in Poultry

Culling for Egg Production (with A. M. Pikey). (Revised.) University of Minnesota Agricultural Extension Division Special Bulletin No. 150. 1937. 15 pages.

Let's Look into This Chicken Business. University of Minnesota Agricultural Extension Division Special Bulletin No. 186. 1937. 16 pages.


Home Demonstration Syndicate Feature. Issued by the University of Minnesota Agricultural Extension Division. Published in 68 country weekly newspapers in Minnesota, 1937-38. Advance and follow-up publicity prepared for newspapers in counties where poultry project is being carried. Items for newspapers on various phases of state extension poultry work.

RALPH F. CRIM, B.S., Assistant Professor of Agricultural Extension and Extension Agronomist

Hybrid Corn Field Trials, 1937. University of Minnesota Agricultural Extension Division Pamphlet No. 41. 1937. 18 pages.


Editor, Minnesota Seed Grower. Issued bimonthly. 1937-38.

BELLE O. FISH, M.S., Assistant Professor of Agricultural Extension and Extension Specialist in Child Development

Home Demonstration Syndicate Feature. Issued by the University of Minnesota Agricultural Extension Service. Published weekly in 68 country weekly newspapers in Minnesota. 1937-38.

News items and articles for newspapers on various phases of state extension child development work.

Mimeographed and multigraphed outlines and subject-matter material for use in child development project. 40 pages.

Advance and follow-up publicity material for use in counties where the child development project is being carried.
EDWIN A. HANSON, B.S., Assistant Professor of Agricultural Extension and Extension Dairyman

The Cow Testing Association (with R. D. Leighton and H. R. Searles). (Revised.) University of Minnesota Agricultural Extension Division Folder No. 55. 1937. 4 pages.

The Dairy Herd Improvement Program (with R. D. Leighton and H. R. Searles). (Revised.) University of Minnesota Agricultural Extension Division Folder No. 57. 1937. 4 pages.

"Minnesota favored by dairy trends." An article sent to about 23 country weekly newspapers in Minnesota. November and December, 1937.

"How dairymen increase their income." An article sent to about 10 country weekly newspapers in Minnesota. January, 1938.

INEZ M. HOBART, M.A., Assistant Professor of Agricultural Extension and Extension Nutritionist

Home Demonstration Syndicate Feature. Issued by the University of Minnesota Agricultural Extension Division. Published weekly in 68 country weekly newspapers in Minnesota. 1937-38.

News items and articles for newspapers on various phases of state extension nutrition work.

Multigraphed and mimeographed subject material for nutrition project, to be used by counties carrying the project.

ARTHUR J. KITTLESON, B.S., Assistant Professor of Agricultural Extension and State Club Agent

4-H Club Leaders' Manual. (Revised.) University of Minnesota Agricultural Extension Division Bulletin No. 18. 1937. 42 pages.

JAMES B. MCNULTY, M.S., Assistant Professor of Agricultural Extension and Extension Economist in Farm Management

"County agricultural planning." Minnesota Farm Business Notes, No. 176. August, 1937. 3 mimeographed pages.

What 125 Farmers Think of the Electric Fence. 1937. 8 mimeographed pages.

News items for rural newspapers on various phases of agricultural economics.

WILLIAM E. MORRIS, M.S., Assistant Professor of Agricultural Extension and Extension Animal Husbandman


Beef Production (with W. H. Peters). (Revised.) University of Minnesota Agricultural Extension Division Special Bulletin No. 146. 1938. 24 pages.

"Alfalfa opens door to profit in sheep and hog raising." Article sent to about 125 weekly newspapers.

"Legume roughage aids livestock farmers to cut production costs." Article sent to about 125 weekly newspapers.

Mimeographed instruction on 4-H calf feeding for county agents.

Report on Minnesota lamb production contests. 1937. 2 mimeographed pages.

Items for newspapers on various phases of animal husbandry extension work.

EYES E. WHITFIELD, B.S., Assistant Professor of Agricultural Extension and Extension Specialist in Clothing

Home Demonstration Syndicate Feature. Issued by the University of Minnesota Agricultural Extension Division. Published weekly in 68 country weekly newspapers in Minnesota. 1937-38.
Advance and follow-up publicity prepared for newspapers in counties where clothing project is being carried.
Multigraphed and mimeographed outlines and subject-matter relative to clothing project work.

HENRY G. ZAVORAL, B.S., Assistant Professor of Agricultural Extension and Extension Animal Husbandman

Report of Minnesota ton litter contest. 1937. 2 mimeographed pages.
Report of Minnesota sow testing project. 1937. 2 mimeographed pages.
News items for newspapers and breed journals on livestock feeding, breeding, and management.

WALLACE W. BROOKINS, M.S., Instructor in Agricultural Extension and Extension Agronomist

Soybeans for Minnesota (with A. C. Arny and R. E. Hodgson). (Revised.) University of Minnesota Agricultural Extension Division Special Bulletin No. 134. 1938. 16 pages.

RUBY CHRISTENSON, B.S., Instructor in Agricultural Extension and Rural Youth Agent

Rural Youth News Letter. Issued quarterly. 7 mimeographed pages.
Mimeographed leaflets on subject material for Rural Youth project.

DANIEL C. DVOACEK, B.S., Instructor in Agricultural Extension and Extension Economist in Marketing

County Cooperative Councils. M 2. 1937. 7 mimeographed pages.
Suggestions for Local Leaders in Discussion Groups. GD 14. 1937. 5 mimeographed pages.
Mimeographed material prepared for use with discussion groups in 46 counties. 1937-38.

CHARLOTTE KIRCHNER, B.S., Instructor in Agricultural Extension and Extension Specialist in Home Furnishings

Home Demonstration Syndicate Feature. Issued by the University of Minnesota Agricultural Extension Division. Published weekly in 68 country weekly newspapers in Minnesota. 1937-38.
Mimeographed subject material for home furnishing project to be used in counties carrying project.

RAMER D. LEIGHTON, B.S., Instructor in Agricultural Extension and Extension Dairyman

Dairy Herd Improvement News Letter. Issued monthly. 6 to 10 mimeographed pages.
Dairy Herd Improvement Annual Summary. University of Minnesota Agricultural Division. 1937. 28 multigraphed pages.
The Cow Testing Association (with E. A. Hanson and H. R. Searles). (Revised.) University of Minnesota Agricultural Extension Division Folder No. 55. 1937. 4 pages.
The Dairy Herd Improvement Program (with E. A. Hanson and H. R. Searles). (Revised.) University of Minnesota Agricultural Extension Division Folder No. 57. 1937. 4 pages.
News items for newspapers on various phases of dairy extension work.
HAROLD R. LEWIS, B.S., Instructor in Agricultural Extension and Publicity Specialist


Editor
*Weekly News Letter* (with H. L. Harris). (Clip sheet of University Farm Publicity, issued for Minnesota newspapers.) 1937-38.

MILDRED SCHENCK, B.S., Instructor in Agricultural Extension and State Club Agent


MAY SONTAG, B.S., Instructor in Agricultural Extension and State Club Agent


SYLVAN T. WARRINGTON, M.A., Instructor in Agricultural Extension and Extension Assistant Economist Marketing


AMY WESSEL, B.S., Instructor in Agricultural Extension and State Club Agent


ELDRED M. HUNT, B.S., Extension Horticulturist

*Landscape Planning, the First Step in Home Beautification*. University of Minnesota Agricultural Extension Division Special Bulletin No. 193. 1937. 15 pages.

"Landscape planning, the first step in home beautification." *Daytonian*, p. 17. Spring number, 1938. Mimeographed leaflets relative to horticultural project work.

WILLIAM A. PETERS, B.S., Extension Specialist in Agricultural Conservation

*Farm Planning* (with S. B. Cleland). University of Minnesota Agricultural Extension Division Pamphlet No. 43 (for Minnesota type-of-farming area No. 1). 1938. 6 pages.

*Farm Planning* (with S. B. Cleland). University of Minnesota Agricultural Extension Division Pamphlet No. 44 (for Minnesota type-of-farming area No. 2). 1938. 6 pages.

*Farm Planning* (with S. B. Cleland). University of Minnesota Agricultural Extension Division Pamphlet No. 45 (for Minnesota type-of-farming area No. 3). 1938. 6 pages.
PUBLICATIONS OF THE FACULTIES

Farm Planning (with S. B. Cleland). University of Minnesota Agricultural Extension Division Pamphlet No. 46 (for Minnesota type-of-farming area No. 4). 1938. 6 pages.

Farm Planning (with S. B. Cleland). University of Minnesota Agricultural Extension Division Pamphlet No. 47 (for Minnesota type-of-farming area No. 5). 1938. 6 pages.

Farm Planning (with S. B. Cleland). University of Minnesota Agricultural Extension Division Pamphlet No. 48 (for Minnesota type-of-farming area No. 6). 1938. 6 pages.

Farm Planning (with S. B. Cleland). University of Minnesota Agricultural Extension Division Pamphlet No. 49 (for Minnesota type-of-farming area No. 7). 1938. 6 pages.

Farm Planning (with S. B. Cleland). University of Minnesota Agricultural Extension Division Pamphlet No. 50 (for Minnesota type-of-farming area No. 8). 1938. 6 pages.

Rural Program Helps. Issued monthly. 5 mimeographed pages.

AGRICULTURAL SUBSTATIONS

CROOKSTON

THOMAS M. McCall, M.S., Superintendent of the Northwest School and Experiment Station and Associate Professor

Program of the Twenty-eighth Annual Farmers' Week and Women's Meetings at Crookston. University of Minnesota, Northwest School and Experiment Station, Crookston Series, Vol. 31, No. 1, January, 1938. 15 pages.


Editor, Northwest Monthly, Vol. 21, Nos. 8-12, 1937; Vol. 22, Nos. 1-7, 1937-38.

Items for northwestern Minnesota newspapers on the work of the Northwest School and Experiment Station.

RAYMOND S. DUNHAM, M.S.A., Assistant Professor of Agronomy and Agronomist, Northwest School and Experiment Station


ORVILLE M. KISER, M.S., Assistant Professor of Dairy and Animal Husbandry, Northwest School and Experiment Station


JOHN W. MLINAR, B.S., Assistant Professor and Registrar, Northwest School and Experiment Station


Co-editor (with Dorothy M. Smith), Red River Aggie, 1938.
Alvey M. Pilkey, Instructor, Northwest School and Experiment Station

Culling for Egg Production (with Cora Cooke). (Revised.) University of Minnesota Agricultural Extension Division Special Bulletin No. 150. 1937. 15 pages.

Dorothy M. Smith, M.A., Instructor, Northwest School and Experiment Station

Co-editor (with J. W. Mlinar), Red River Aggie, 1938.

Duluth

Mark J. Thompson, M.S., Superintendent of the Northeast Experiment Station and Associate Professor of Farm Engineering

The First Twenty-five Years of the Northeast Experiment Station, Duluth. 1938. 12 pages.

"At the season's end." Annual Report of St. Louis County Club and Farm Bureau, p. 45. 1937.


Excelsior

Fred E. Haralson, Assistant Superintendent of the State Fruit Breeding Farm, Excelsior


Morris

Theodore H. Fenske, B.S., Acting Superintendent of the West Central School and Experiment Station and Assistant Professor

"A winter visit to Itasca Park." Minnesota Conservationist, No. 54, pp. 8, 26, 28, 32, 33. February, 1938.

News items sent to west central Minnesota newspapers on the work of the school and station.

Editor West Central School News, Vol. 21, Nos. 1, 2. 1938.

Bulletin of the University of Minnesota, Morris Series, Vol. 29, Nos. 1, 2. 1938.

Projector of W. C. S. A., published monthly, April through September, 1937.

Mimeographed leaflets on home project work.

Practical Farm Arithmetic (with A. W. Edson). Mimeographed material for class use. 1938.

John A. Anderson, B.S., Assistant Professor of Horticulture, West Central School and Experiment Station

Manuals for home project work:

Gardening. 5 mimeographed pages.
Fruit growing. 9 mimeographed pages.
Potato variety comparisons. 11 mimeographed pages.
Home beautification. 8 mimeographed pages.
ROY O. BRIDGFORD, M.S., Assistant Professor of Agronomy, West Central School and Experiment Station

"Rust situation similar to 1935." West Central Minnesota newspapers, June, 1937.

Syllabus—plant diseases, for class use. (Revised.) 9 mimeographed pages.
Laboratory manual for class use. Cereal crops. (Revised.) 8 mimeographed pages.

ALLEN W. EDSON, B.S., Assistant Professor of Farm Management, West Central School and Experiment Station

Practical Farm Arithmetic (with T. H. Fenske). Mimeographed material for class use. 1938.

PHILIP S. JORDAN, B.S., Assistant Professor of Animal and Dairy Husbandry, West Central School and Experiment Station

*Effect of Mineral Supplements in Fattening Lambs—Alfalfa and Prairie Hay Compared.* University of Minnesota West Central School and Station, Morris S-23. 1938. 6 pages.


*Feeding Methods and Rations for Fattening Lambs* (with W. H. Peters). (Revised.) University of Minnesota Agricultural Experiment Station Bulletin No. 306. 1938. 60 pages.


ALBERT C. HEINE, Instructor in Agricultural Engineering and Coach, West Central School and Experiment Station


Mimeographed manual for home project work. 6 pages.

GLENN I. PRICKETT, B.A., Instructor, West Central School and Experiment Station

Weekly contributions to 4-H News and Notes, *Grant County Herald, Hoffman Tribune*, and *Herman Review*, April 1 to October 1, 1938.

Editor, *Grant County 4-H News* (mimeographed monthly bulletin to 4-H Club members), April 1 to October 1, 1938.

ALEX B. ROLFE, Instructor, West Central School and Experiment Station


WASECA

ROBERT E. HODGSON, M.S., Superintendent of the Southeast Experiment Station and Assistant Professor of Agronomy and Farm Management

*Soybeans for Minnesota* (with A. C. Arny and W. W. Brookins). (Revised.) University of Minnesota Agricultural Extension Division Special Bulletin No. 134. 1938. 16 pages.
UNIVERSITY OF MINNESOTA

"Where are we going?" Waldorf Lobbyist, p. 2. September 24, 1937.
Weekly articles on farm subjects used more or less regularly by about 100 weekly newspapers in southern Minnesota.

AGRONOMY AND PLANT GENETICS

HERBERT K. HAYES, D.Sc., Professor of Plant Genetics and Chief of the Division of Agronomy and Plant Genetics


"Quality studies in the wheat-breeding program at the Minnesota Agricultural Experiment Station" (with E. R. Ausenius, M. C. Markley, and C. H. Bailey). Journal of Agricultural Research, 56:453-64. 1938.


FORREST R. IMMER, Ph.D., Professor of Plant Genetics


HAROLD K. WILSON, Ph.D., Professor of Agronomy


Editor, Proceedings of the Minnesota Academy of Science, 1937.

ALBERT C. ARNY, M.S., Associate Professor of Agronomy


Manuring and Cultivation for Grass Seed Production (with others attending the Fourth International Grassland Congress, Great Britain). 40 mimeographed pages.

Methods of Multiplying Pedigree Grass and Legume Seed in Some Northwestern European Countries. 13 mimeographed pages.


IVER J. JOHNSON, Ph.D., Assistant Professor of Agronomy and Plant Genetics


"Variation in pigment concentration among inbred and crossbred strains of corn" (with E. S. Miller). Cereal Chemistry, 15:345-54. 1938.

DEAN C. ANDERSON, M.S., Instructor in Agronomy


**CARL BORGESON, M.S., Instructor in Agronomy**


**WILL M. MYERS, Ph.D., Instructor in Agronomy and Plant Genetics**


**ANIMAL AND POULTRY HUSBANDRY**

**WALTER H. PETERS, M.Agr., Professor of Animal Husbandry and Chief of the Division of Animal and Poultry Husbandry**


_The Selection and Purchase of Feeders and Rations for Fattening Beef Cattle._ (Revised.) University of Minnesota Agricultural Experiment Station Bulletin No. 300. 1938. 76 pages.

_Feeding Methods and Rations for Fattening Lambs_ (with P. S. Jordan). (Revised.) University of Minnesota Agricultural Experiment Station Bulletin No. 306. 1938. 60 pages.

_Beef Production_ (with W. E. Morris). (Revised.) University of Minnesota Agricultural Extension Division Special Bulletin No. 146. 1938. 24 pages.


Editor, Livestock Department, *Farmer*. 1937-38.

Mimeographed reports of livestock feeding experiments. 18 pages.

**EVAN F. FERRIN, M.Agr., Professor of Animal Husbandry**

_Care and Feeding of Pigs._ (Revised.) University of Minnesota Agricultural Extension Division Special Bulletin No. 74. 1938. 24 pages.


Mimeographed reports of swine feeding investigations. H. 70, 71.

**HUBERT J. SLOAN, Ph.D., Professor of Poultry Husbandry**

"Sex-link matings made to determine the sex at hatching." *Poultry Herald*, 50:34. 1938.
WILLES B. COMBS, M.A., Professor of Dairy Husbandry


Studies on the Ripening of Blue or American Roquefort Cheese (with S. T. Coulter and J. S. George) in ibid., 20:469. 1937.

The Influence of Stearic on the Rate of Ripening of Blue or American Roquefort (with S. T. Coulter) in ibid., 20:470. 1937.

Editor, Plant Problems and Their Solution Department (with H. Macy). Dairy Produce. 1937-38.

HAROLD MACY, Ph.D., Professor of Dairy Bacteriology


"The manufacture of blue-veined and other types of cheese in Minnesota." Proceedings of the Tenth Annual State College of Washington Institute of Dairying, pp. 5-7. 1937.

Effect of ingredients and processes on the sanitary quality of ice cream." Ibid., pp. 49-51. 1937.

"Recent developments in pasteurization and their legal aspects." Ibid., pp. 78-82. 1937.


"Quality of ingredients in the ice cream mix." Ibid., pp. 108-10. 1938.

"Ice cream from the health standpoint." Ibid., pp. 140-42. 1938.


Editor, Plant Problems and Their Solution Department (with W. B. Combs). Dairy Produce. 1937-38.

WILLIAM E. PETERSEN, Ph.D., Associate Professor of Dairy Husbandry


SAMUEL T. COULTER, Ph.D., Assistant Professor of Dairy Husbandry


Studies on the Ripening of Blue or American Roquefort Cheese (with W. B. Combs and J. S. George) in ibid., 20:469. 1937.

The Influence of Steapsin on the Rate of Ripening of Blue or American Roquefort Cheese (with W. B. Combs) in ibid., 20:470. 1937.


THOR W. GULICKSON, Ph.D., Assistant Professor of Dairy Husbandry

Feeding the Dairy Herd (with J. B. Fitch). (Revised.) University of Minnesota Agricultural Experiment Station Bulletin No. 218. 1938. 65 pages.


NAT N. ALLEN, Ph.D., Instructor in Dairy Husbandry


J. ARION EREKSON, B.S., Research Assistant in Dairy Husbandry


J. SPENCER GEORGE, M.S., Research Assistant in Dairy Husbandry


DOUGLAS L. GIBSON, M.S., Research Assistant in Dairy Husbandry


JOSEPH C. SHAW, Ph.D., Research Assistant in Dairy Husbandry


PUBLICATIONS OF THE FACULTIES

ENTOMOLOGY AND ECONOMIC ZOOLOGY

WILLIAM A. RILEY, Ph.D., D.Sc., Professor of Entomology and Chief of the Division of Entomology and Economic Zoology


*How To Fight the Housefly.* (Revised.) University of Minnesota Agricultural Extension Division Special Bulletin No. 48. 1937. 8 pages.

Arthur G. Ruggles, M.A., Professor of Entomology

*Pest Control Program for Fruits in Minnesota* (with C. J. Eide). (Revised.) University of Minnesota Agricultural Extension Division Circular No. 50. 1938. 4 pages.


MAURICE C. TANQUARY, Ph.D., Professor of Apiculture

*American Industrial Beekeeping* (with M. H. Haydak). (In Ukrainian.) Podebrady, Czechoslovakia: Ukrainian Technical Agricultural Institute, 1937. 6 pages.


ALEXANDER A. GRANOVSKY, Ph.D., Associate Professor of Entomology

*Forestry and Biological Station of the University of Minnesota at Itasca Park.* Bulletin of the University of Minnesota, Vol. 41, No. 22. 1938. 23 pages.


Miscellaneous articles for press on insect pest problems. 1937-38.


CLARENCE E. MICKEI, Ph.D., Associate Professor of Entomology


HAROLD H. SHEPARD, Ph.D., Assistant Professor of Entomology

“Laboratory studies of methyl bromide as an insect fumigant” (with Frank W. Fisk). *Journal of Economic Entomology*, 31:79-84. 1938.


GUSTAV SWANSON, Ph.D., Assistant Professor of Economic Zoology


TORFINE L. AAMODT, B.S., Instructor in Entomology


DONALD M. HATFIELD, M.A., Instructor in Entomology


MYKOLA H. HAYDAK, Ph.D., Instructor in Entomology

"What to substitute for pollen." (In Ukrainian.) Ukrainian Beekeeper, 10:128-29. 1937.
"How does a pure sugar diet influence bees?" (In Ukrainian.) Ibid., 10:152-53. 1937.
"Our present knowledge of vitamins." (In Ukrainian.) Ukrainian Weekly, July 24. 1937.

ALEXANDER C. HODSON, Ph.D., Instructor in Entomology


O. WILFORD OLSEN, Ph.D., Instructor in Entomology

"A new species of Cestode, Dendrocerina lintoni (Dilepidiidae), from the Little Green Heron (Butorides virescens (Linn.))." Proceedings of the Helminthological Society of Washington, 4:72-75, pl. 1. 1937.
PUBLICATIONS OF THE FACULTIES

LESLIE W. ORR, M.S., Instructor in Forest Entomology

DONALD G. DENNING, M.S., Research Assistant in Entomology

FRANK W. FISK, B.S., Research Assistant in Entomology and Economic Zoology
"Laboratory studies of methyl bromide as an insect fumigant" (with H. H. Shepard). Journal of Economic Entomology, 31:79-84. 1938.

JOHN T. MEDLER, M.S., Research Assistant in Entomology

WILLIAM D. MURRAY, M.S., Research Assistant in Entomology
"Some revisions in the genus Sphex, with one new species, a new subspecies, and a new name (Hymenoptera: Sphecidae)." Annals of the Entomological Society of America, 31:17-43. 1938.

A. EARL PRITCHARD, B.S., Research Assistant in Entomology and Economic Zoology

FORESTRY

HENRY SCHMITZ, Ph.D., Professor of Forestry and Chief of the Division of Forestry
The Permeability of Woods to Liquids and Factors Affecting the Rate of Flow (with H. D. Erickson and R. A. Gartner). University of Minnesota Agricultural Experiment Station Technical Bulletin No. 122. 1937. 42 pages.
"Let's have a showdown." Ibid., 35:613-14. 1937.
"What will the harvest be?" Ibid., 35:707-708. 1937.
"The mirror of the profession." Ibid., 35:801-802. 1937.
"At the fork of the trail." Ibid., 35:895-96. 1937.
"The Forest Service eyes the farm." Ibid., 35:1083-84. 1937.
"'A three point program'." Ibid., 36:269-70. 1938.
"The lumber industry looks at forestry." *Journal of Forestry, 36:*363-64. 1938.


**Editor, Journal of Forestry, 1937-38.**

**Raphael Zon, B.S., F.E., Professor of Forestry**

*The Need for Farm Forestry* (with R. N. Cunningham). University of Minnesota Agricultural Extension Division Special Bulletin No. 191. 1937. 15 pages.


**Thorvald Schantz-Hansen, Ph.D., Associate Professor of Forestry**

*Ecological Changes Due to Thinning.* University of Minnesota Agricultural Experiment Station Technical Bulletin No. 124. 1937. 77 pages.


**Alan J. Bailey, Ph.D., Assistant Professor of Forestry**


Member of staff of *Mikrochimica Acta, Vienna.*

**Randolph M. Brown, M.F., M.S., Assistant Professor of Forestry**


**Louis W. Rees, Ph.D., Assistant Professor of Forestry**


**Frank Kauffert, Ph.D., Instructor in Forestry**


**Home Economics**

**Alice M. Child, M.A., Associate Professor of Home Economics**


*Thawing and Cooking Frozen Meats.* University of Minnesota Agricultural Extension Division Special Bulletin No. 189. 1937. 6 pages.

*Effect of Thawing and Cooking Frozen Pork and Beef* (with Pauline Paul). University of Minnesota Agricultural Experiment Station Technical Bulletin No. 125. 1937. 11 pages.


Food Score Cards (with Clara M. Brown and others). Minneapolis: University of Minnesota Printing Department. 1937. 48 pages.

"Effect of freezing and thawing beef muscle upon press fluid, losses and tenderness" (with Pauline Paul). Food Research, 2:339-47. 1937.


Ethel L. Phelps, M.S., Assistant Professor of Home Economics


Eva G. Donelson, Ph.D., Instructor in Home Economics


Kathryn B. Niles, M.S., Instructor in Home Economics


Mary Satorius, M.S., Instructor in Home Economics


Mabel C. Rogers, M.A., Research Assistant in Home Economics


Horticulture

William H. Alderman, B.S.A., Professor of Horticulture and Chief of the Division of Horticulture

"Minnesota Fruit Breeding Farm—New fruits described—Annual report" (with F. E. Haralson). Minnesota Horticulturist, 65:4-5, 7. 1937.

"Fruit breeding at state and federal experiment stations." Ibid., 65:171-72. 1937.


Editor (with A. E. Hutchins and L. Sando), Timely Topics Department, Minnesota Horticulturist, 1937-38.

Wilfred G. Brierley, Ph.D., Professor of Horticulture


FRED A. KRANTZ, Ph.D., Professor of Horticulture


TROY M. CURRIENCE, Ph.D., Assistant Professor of Horticulture

*Fusarium Wilt of Muskmelons in Minnesota* (with J. G. Leach). University of Minnesota Agricultural Experiment Station Technical Bulletin No. 129. 1938. 32 pages.


Abstract of


LEWIS E. LONGLEY, Ph.D., Assistant Professor of Horticulture

*Making the Home Lawn.* (Revised.) University of Minnesota Agricultural Extension Division Special Bulletin No. 130. 1938. 12 pages.

“Care of lawns in spring.” *Minnesota Horticulturist*, 66:64. 1938.


Chemicals for control of lawn weeds. 1938. 1 mimeographed page.

Fertilizer program for the flower garden. 1938. 2 mimeographed pages.

Mimeographed syllabus of course in Home Floriculture. 1938. 5 pages.

ARNE G. TOLAAS, M.S., Assistant Professor of Horticulture


ARTHUR N. WILCOX, Ph.D., Assistant Professor of Horticulture


“Apple breeding studies at Minnesota.” Pages 57-61 in *Summary of Results Obtained from Using Certain Varieties of Apple As Parents in Breeding Investigations at Some of the State and Federal Stations in the United States*. Material assembled at the U. S. Horticultural Station, Beltsville, Maryland. 1938.

ERNEST ANGELO, Ph.D., Instructor in Horticulture


Arthur E. Hutchins, Ph.D., Instructor in Horticulture


"Vegetables—Culture in the garden:


James D. Winter, M.S., Instructor in Horticulture


Harold Mattson, B.S., Research Assistant in Horticulture


Martin L. Oland, Ph.D., Research Assistant in Horticulture


Louis Sando, Teaching Assistant in Horticulture


Outlines in plant propagation. 1938. 2 mimeographed pages.

Greenhouse management and practice. 1938. 3 mimeographed pages.

Plant Pathology and Botany

Elvin C. Stakman, Ph.D., Professor of Plant Pathology and Chief of the Division of Plant Pathology and Botany


American editor, *Phytopathologische Zeitschrift.*

**RODNEY B. HARVEY, Ph.D., Professor of Plant Physiology, Agricultural Botany, and Horticulture**

*Limitedations of Frozen Storage for Fruits and Vegetables.* University of Minnesota Agricultural Extension Division Folder No. 64. 1937. 6 pages.


**JULIAN G. LEACH, Ph.D., Professor of Plant Pathology**

*Fusarium Wilt of Muskmelons in Minnesota* (with T. M. Currence). University of Minnesota Agricultural Experiment Station Technical Bulletin No. 129. 32 pages. 1938.


**JONAS J. CHRISTENSEN, Ph.D., Associate Professor of Plant Pathology**


CARL J. EIDE, Ph.D., Assistant Professor of Plant Pathology

Pesticide Control Program for Fruits in Minnesota (with A. G. Ruggles). (Revised.) University of Minnesota Agricultural Extension Division Circular No. 50. 1938. 4 pages.  
Associate editor, *Phytopathology*, 1937-38.

ALVIN H. LARSON, B.S., Assistant Professor of Agricultural Botany


ALFRED C. VOGEL, Ph.D., Assistant Professor of Agricultural Botany

"Effect of environmental factors upon the color of the tomato and the watermelon." *Plant Physiology*, 12:929-55. 1937.  

CLYDE C. ALLISON, Ph.D., Instructor in Plant Pathology and Botany


ST. JOHN P. CHILTON, M.S., Instructor in Plant Pathology and Botany


CLYDE M. CHRISTENSEN, Ph.D., Instructor in Plant Pathology


LOUISE T. DOSDALL, Ph.D., Instructor in Plant Pathology


J. GEORGE HARRAR, Ph.D., Instructor in Plant Pathology and Botany


MILTON F. KERNKAMP, B.S., Instructor in Plant Pathology and Botany

RAYMOND H. LANDON, Ph.D., Instructor in Plant Physiology


MATTHEW B. MOORE, M.S., Instructor in Plant Pathology

*The Minnesota Seed Grain Treater.* University of Minnesota Agricultural Extension Division Circular No. 58. 1938. 5 pages.


IAN W. TERVET, B.S., Instructor in Plant Pathology and Botany


ARTHUR F. VERRALL, Ph.D., Instructor in Plant Pathology and Botany

*Variation in Fomes igniarius* (*L.*) *Gill.* University of Minnesota Agricultural Experiment Station Technical Bulletin No. 117. 1937. 41 pages.

HENRY M. DARLING, M.S., Research Assistant in Plant Pathology and Botany


ANDREW R. DOWNIE, B.S., Research Assistant in Plant Pathology and Botany


RICHARD C. NELSON, B.A., Research Assistant in Plant Physiology


PHYSICAL TRAINING

MARSHALL W. RYMAN, B.S., Instructor in Physical Training


Mimeographed tests for class use. 1937-38. 10 pages.
PUBLICATIONS OF THE FACULTIES  

PUBLICATIONS

HAROLD L. HARRIS, B.S., Editor and Assistant Professor

"The 'G-men' are after 'creeping Jenny'."  Farrow, 43:4, 11. May-June, 1938.
Editor, Weekly News Letter (with H. R. Lewis). (Clip sheet of University Farm Publicity, issued weekly for Minnesota newspapers.) 1937-38.
Wide range of skeleton articles for county extension agents, informative material and suggestions on publicity writing, etc. 1937-38.

RHETORIC

JAMES I. BROWN, M.A., Instructor in Rhetoric


WILLIAM RANDEL, M.A., Instructor in Rhetoric

"Naming the farm." Dakota Farmer, p. 639, November 4, 1937.

RURAL SOCIOLOGY

ROBERT W. MURCHIE, Ph.D. (deceased), Professor of Sociology

Beltrami Island, Minnesota (with C. R. Wasson). University of Minnesota Agricultural Experiment Station Bulletin No. 334. 1937. 48 pages.

LOWRY NELSON, Ph.D., Professor of Sociology

"The social aspects of economic cooperation." American Cooperation, pp. 91-103. 1937.
Editor, Rural Sociology, 1937-38.

CHESTER R. WASSON, M.A., Research Assistant in Rural Sociology

Beltrami Island, Minnesota (with R. W. Murchie). University of Minnesota Agricultural Experiment Station Bulletin No. 334. 1937. 48 pages.

SCHOOL OF AGRICULTURE

WILLIAM H. DANKERS, Ph.D., Assistant Professor


JOHANNA HOGNASON, B.S., Instructor

Editor, School of Agriculture News, 1937-38.

LAURA A. MATSON, Instructor and Preceptress

Editor, The Agrarian, 1937-38.

SOILS

FREDERICK J. ALWAY, Ph.D., Professor of Soil Chemistry and Chief of the Division of Soils

WILLIAM J. METHLEY, Assistant in Soils

**VETERINARY MEDICINE**

CLIFFORD P. FITCH, D.V.M., D.Sc., Professor of Veterinary Medicine and Chief of the Division of Veterinary Medicine
Associate editor, *Cornell Veterinarian*, 1938.

WILLARD L. BOYD, D.V.S., Professor of Veterinary Medicine
"The significance of suspicious agglutination reactions for Bang's disease" (with C. P. Fitch and Lucille M. Bishop). *Journal of the American Veterinary Medical Association*, (91) 44:22-44. 1937.

HOWARD C. H. KERNKAMP, D.V.M., M.S., Associate Professor of Veterinary Medicine

REUEL FENSTERMACHER, D.V.M., Assistant Professor of Veterinary Medicine

MARTIN H. ROEPKE, Ph.D., Assistant Professor of Veterinary Medicine
PUBLICATIONS OF THE FACULTIES

Lucille M. Bishop, M.S., Instructor in Veterinary Medicine


Abstracts in Biological Abstracts. 1937-38.

Benjamin S. Pomeroy, D.V.M., M.S., Assistant Veterinarian


Charlotte M. Thompson, B.S., Technician


THE LAW SCHOOL

Everett Fraser, B.A., LL.B., Dean of the Law School and Professor of Law


Henry L. McClintock, Ph.B., LL.B., S.J.D., Professor of Law


“A route up the index.” Trail and Timberline, No. 322. March, 1938.

Reviews of


S. Chesterfield Oppenheim, Cases on Trade Regulation in ibid., 5:328. February, 1938.


Maynard E. Pirsig, B.A., LL.B., Professor of Law

Reviews of


William L. Prosser, B.A., LL.B., Professor of Law

Editor, Minnesota Law Review. 1937-38.

Horace E. Read, B.A., LL.M., S.J.D., Professor of Law


Reviews of

HENRY ROTTSCHAEFER, B.A., J.D., S.J.D., Professor of Law
Reviews of

EDWARD S. BADE, B.A., LL.M., Assistant Professor of Law

EDWARD G. JENNINGS, M.A., LL.M., Assistant Professor of Law
Reviews of
Abstract of "A creditor's rights in securities held by his surety." Current Legal Thought, 4:442-47. April, 1938.

STANLEY V. KINYON, B.A., LL.B., Assistant Professor of Law

THE MEDICAL SCHOOL
ADMINISTRATION

HAROLD S. DIEHL, M.A., M.D., D.Sc., Dean of the Medical Sciences and Professor of Preventive Medicine and Public Health


ANATOMY

CLARENCE M. JACKSON, M.S., M.D., LL.D., Professor of Anatomy and Head of the Department of Anatomy


"The nature of the abnormally rapid increase in body weight following a period of growth suppression." Ibid., 70 (supplement No. 3):40. 1938.

EDWARD A. BOYDEN, Ph.D. (Med.Sc.), Professor of Anatomy


Managing editor, Anatomical Record. 1937-38.

HAL DOWNEY, Ph.D., Professor of Anatomy


"The myeloblast." Section XXV, pages 1963-2041 in ibid.


Editor, Handbook of Hematology. New York: Paul B. Hoeber, Inc. 1938. 4 volumes, 3136 pages.


ANDREW T. RASMUSSEN, Ph.D., Professor of Neurology

"The proportions of the various subdivisions of the normal adult human hypophysis cerebri and the relative number of the different types of cells in pars distalis, with biometric evaluation of age and sex differences and special consideration of basophilic invasion into the infundibular process." Proceedings of the Association for Research in Nervous and Mental Disease, 17:118-50. 1938.

"The nerve fibers of the human hypophysis." Anatomical Record, 70 (supplement No. 3):64-65. 1938.


Abstracts in Endocrinology, Vols. 21, 22. 1937-38.

RAYMOND F. BLOUNT, Ph.D., Assistant Professor of Anatomy

“Alterations of the adrenal cortex in Amphibia bearing an excess or no pituitary tissue.”
*Anatomical Record, 70* (supplement No. 3) :8. 1938.

SHIRLEY P. MILLER, Ph.D., Assistant Professor of Anatomy

“Microscopic anatomy at the University of Breslau and its relation to the cell theory.”
*University of Minnesota Medical School Digest, 1:2.* 1937.
Mimeographed class sheets for studies in History of Anatomy. 1937. 40 pages.
Mimeographed class sheets for A Short Study of Anatomical Bibliography. 1938. 12 pages.
Mimeographed laboratory outlines for Embalmers’ Anatomy. 1938. 10 pages.

FRED KOLOUCH, JR., B.A., Teaching Assistant in Anatomy

“The development of plasma cells from reticulo-endothelial cells as seen in successive bone marrow biopsies in the rabbit.” *Anatomical Record, 70* (supplement No. 3) :46. 1938.

JEFF MINCKLER, B.A., Teaching Assistant in Anatomy

“Report of a colony of albino rats existing under feral conditions” (with F. D. Pease).
*Science, 87:*460-61. 1938.

RUSSELL L. MOSELEY, M.S., Teaching Assistant in Anatomy


“The innervation of the pancreas in the cat.” *Anatomical Record, 70* (supplement No. 3) :58. 1938.

ARTHUR KIRSCHBAUM, Ph.D., Teaching Fellow in Anatomy


NORMAN D. SCHOFIELD, M.A., Research Assistant in Anatomy

“The behavior of transplanted embryonic pancreas in a urodele.” *Anatomical Record, 70* (supplement No. 3) :69-70. 1938.

RAYMOND C. TRUEX, M.S., Teaching Assistant in Anatomy

“Changes in the semilunar ganglion referable to senescence in man.” *Anatomical Record, 70* (supplement No. 3) :80. 1938.

BACTERIOLOGY AND IMMUNOLOGY

ROBERT G. GREEN, M.A., M.D., Professor of Bacteriology


Wildlife Disease Investigation Reports. Vol. 2. Mimeographed and distributed by the
Wildlife Disease Investigation Reports. Vol. 3. Mimeographed and distributed by the
University of Minnesota and the Minnesota Department of Conservation. July,
1936 to December, 1937.

ARTHUR T. HENRICI, M.D., Professor of Bacteriology

H. ORIN HALVORSON, Ch.E., Ph.D., Associate Professor of Bacteriology

CHARLES E. SKINNER, Ph.D., Assistant Professor of Bacteriology

BERYL S. GREEN, M.A., Instructor in Bacteriology

MILAN V. NOVAK, Ph.D., Instructor in Bacteriology

GEORGE M. SAVAGE, Ph.D., Instructor in Bacteriology

MOSSES BARRON, M.D., Professor of Medicine

**GEORGE E. FAHR, M.D., Professor of Medicine**

"What is lipemic nephrosis?" *American Journal of Medical Sciences*, 194:449-63. 1937.


**ERNEST M. HAMMES, M.D., Professor of Neurology and Psychiatry**


**HENRY E. MICHELSON, M.D., Professor of Dermatology and Syphilology**


"Recent advances in the pathology of syphilis." *Transactions of the Academy for the Advancement of Science*. December 27, 1937.


"Dermatological diagnosis for the general practitioner." *Transactions of the Freeborn County Medical Society*. March 14, 1938.

"Dermatology and internal medicine." *Transactions of the Stutzman County Medical Society*. March 31, 1938.

**SAMUEL E. SWEITZER, M.D., Professor of Dermatology and Syphilology**


**HENRY L. ULRICH, M.D., Professor of Medicine**


Syphilis of the Heart. Minneapolis: University of Minnesota Mimeograph Department. 1937. 12 pages.

**CHARLES B. WRIGHT, M.D., Professor of Clinical Medicine**


**JOHN BUTLER, M.D., Associate Professor of Dermatology and Syphilology**


**HARRY G. IRVINE, M.D., Associate Professor of Dermatology and Syphilology**

"Medical facts that can save countless lives." *Minneapolis Journal*. Series of six weekly articles July and August, 1937: reprinted as a pamphlet and distributed by the State Department of Health.

**REUBEN A. JOHNSON, M.D., Associate Professor of Medicine**

JOSEPH C. MICHAEL, M.D., Associate Professor of Nervous and Mental Diseases


CECIL J. WATSON, M.D., Ph.D., Associate Professor of Medicine


"Lymphosarcoma and leukosarcoma. Interrelations between Hodgkin's disease, lymphosarcoma, and leukemia." Vol. 4, pages 3049-3106 in *ibid*.


KARL W. ANDERSON, M.D., Clinical Assistant Professor of Medicine


JAMES B. CAREY, M.D., Clinical Assistant Professor of Medicine


ROYAL C. GRAY, M.D., Ph.D., Assistant Professor of Nervous and Mental Diseases


ARTHUR C. KERKHOF, M.D., Ph.D., Assistant Professor of Medicine


CARL W. LAYMON, M.D., Ph.D., Clinical Assistant Professor of Dermatology


*Journal of Tropical Medicine and Hygiene* in *ibid.*, 1937-38.
FRANCIS W. LYNCH, M.D., M.S., Clinical Assistant Professor of Dermatology and Syphilology

Abstracts of Endocrinology, American Journal of Medical Sciences, Archives of Internal Medicine, Journal of Experimental Medicine, published regularly in Archives of Dermatology and Syphilology. 1938.
"Symptoms, dangers of social diseases." Minnesota Daily, April 5, 1938.

ERNEST S. MARIETTE, M.D., Clinical Assistant Professor of Medicine


BURTRUM C. SCHIELE, B.A., M.D., Assistant Professor of Nervous and Mental Diseases

Mimeographed syllabus and clinical guide (with J. C. McKinley). 1938. 70 pages.

ADAM M. SMITH, M.D., Clinical Assistant Professor of Medicine


WESLEY W. SPINK, B.A., M.D., Assistant Professor of Medicine

"First-infection type of tuberculosis in adults: a five-year study of student nurses at the Boston City Hospital" (with T. L. Badger). Ibid., 217:424-31. 1937.

SAMUEL A. WEISMAN, M.D., Clinical Assistant Professor of Medicine


THOMAS ZISKIN, M.D., Clinical Assistant Professor of Medicine

"The heart in bronchial asthma" (with W. A. Colton). Journal of Allergy, 8:347-52. May, 1937.

ABE B. BAKER, M.D., Ph.D., Instructor in Nervous and Mental Diseases
"Cerebral changes in amaurotic family idiocy (Tay-Sachs disease)" (with E. S. Platou). Archives of Pathology, 25:75-82. 1938.


NATHAN J. BERKWITZ, M.D., Ph.D., Instructor in Nervous and Mental Diseases

WALTER P. GARDNER, M.D., Clinical Instructor in Nervous and Mental Diseases

PHILLIP HALLOCK, M.D., M.S., Instructor in Medicine

FRANK L. JENNINGS, M.D., Clinical Instructor in Medicine

RICHARD M. JOHNSON, M.D., Instructor in Medicine
"Plasma electrolyte disturbance in patient with hypercorticoaortic syndrome contrasted with that found in Addison's disease" (with I. McQuarrie and Mildred R. Ziegler). Endocrinology, 21:763-72. 1937.

GORDON R. KAMMAN, M.D., Clinical Instructor in Nervous and Mental Diseases

ELMER M. RUSTEN, M.D., Clinical Instructor in Dermatology and Syphilology
FRANK W. WHITMORE, M.D., Instructor in Nervous and Mental Diseases

SUMNER S. COHEN, M.D., Clinical Assistant in Medicine

NAUFTOLI M. LEVINE, M.D., Clinical Assistant in Medicine

JOHN R. MEADE, M.D., Clinical Assistant in Medicine
"Insulin in the treatment of schizophrenia." Minnesota Medicine, 20:373-75. 1937.

DAVID V. SHARP, M.D., Clinical Assistant in Medicine
"Coexisting pernicious anemia and chronic pulmonary tuberculosis." Minnesota Medicine, 21:258-60. April, 1938.

JOHN J. BOEHRER, JR., M.D., Teaching Fellow in Medicine

LILLIAN COTTRELL, M.D., Teaching Fellow in Nervous and Mental Diseases

FELIX H. CRAGO, B.A., M.D., Teaching Fellow in Medicine

IRVING ERSHLER, M.D., Teaching Fellow in Medicine
"Recent advances in capillary physiology with some clinical applications." Guthrie Clinic Bulletin, 7:77-80. 1937.

JOHN A. LAYNE, M.D., Teaching Fellow in Medicine

JOHN E. SKOGLAND, M.D., Teaching Fellow in Nervous and Mental Diseases

KARL D'A. ANDRESEN, M.D., Scholar in Clinical Medicine
PUBLICATIONS OF THE FACULTIES

OBSTETRICS AND GYNECOLOGY

JENNINGS C. LITZENBERG, M.D., Professor of Obstetrics and Gynecology and Head of the Department of Obstetrics and Gynecology

Contributions to the Pathology of Pregnancy (Porter Lectures, Series VI). Lawrence, Kan.: University of Kansas. 1937.


Rae T. LaVake, B.A., M.D., Assistant Professor of Obstetrics and Gynecology


Milton Abramson, M.D., Ph.D., Instructor in Obstetrics and Gynecology


Claude J. Ehrenberg, M.D., Instructor in Obstetrics and Gynecology


Maude M. Gerdes, B.A., M.D., Instructor in Obstetrics and Gynecology


Edward C. Meder, M.D., Ph.D., Instructor in Obstetrics and Gynecology


Charles E. Proshak, M.D., Clinical Instructor in Obstetrics and Gynecology


Owen F. Robbins, M.D., Instructor in Obstetrics and Gynecology


William P. Sadler, B.A., M.D., Clinical Instructor in Obstetrics and Gynecology


Charles H. McKenzie, M.D., Clinical Assistant in Obstetrics and Gynecology

CHARLES E. McLennan, M.D., Teaching Fellow in Obstetrics and Gynecology


MANCEL T. MITCHELL, M.D., Teaching Fellow in Obstetrics and Gynecology


EDWARD J. SEMANSKY, M.D., Teaching Fellow in Obstetrics and Gynecology


OPHTHALMOLOGY AND OTOLARYNGOLOGY

FRANK E. BURCH, M.D., Professor of Ophthalmology and Head of the Department of Ophthalmology and Otolaryngology


HORACE NEWHART, M.D., Professor of Otolaryngology and Director of the Division of Otolology, Rhinology, and Laryngology


LAWRENCE R. BOIES, M.A., M.D., Clinical Assistant Professor of Otolaryngology


CHARLES HYMES, M.S., M.D., Clinical Assistant Professor of Ophthalmology


KENNETH A. PHELPS, M.D., Assistant Professor of Ophthalmology and Otolaryngology


FRANK L. BRYANT, M.D., Instructor in Otolaryngology

EDWARD P. BURCH, M.D., Clinical Instructor in Ophthalmology


WALTER H. FINK, M.D., M.S., Clinical Instructor in Ophthalmology


VIRGIL J. SCHWARTZ, M.D., Instructor in Ophthalmology and Otolaryngology


GERALD M. KOEPCKE, M.D., Clinical Assistant in Ophthalmology and Otolaryngology


FRITZ D. HURD, M.D., Teaching Fellow in Otolaryngology


PATHOLOGY

ELEXIOUS T. BELL, M.D., Professor of Pathology and Head of the Department of Pathology


BENJAMIN J. CLAWSON, M.D., Ph.D., Professor of Pathology


KANO IKEDA, M.D., Associate Professor of Pathology


JAMES S. McCARTNEY, JR., B.A., M.D., Associate Professor of Pathology

JOHN F. NOBLE, M.D., Associate Professor of Pathology

WILLIAM A. O'BRIEN, M.D., Associate Professor of Pathology and Preventive Medicine and Public Health
Editor
Staff Meeting Bulletin, Hospitals of the University of Minnesota. Mimeographed weekly during regular school year. 1937-38.
Laboratory Procedure for Medical Technologists. 1936. 133 mimeographed pages.
Health column, "Health from the air." Everybody's Health, 1937-38.

NATHANIEL H. LUFKIN, M.A., M.D., Assistant Professor of Pathology

GEORGE K. HIGGINS, M.D., M.S., Instructor in Pathology

LEWIS E. NOLAN, M.D., Instructor in Pathology

ARTHUR A. NELSON, M.D., M.A., Teaching Fellow in Pathology

EDGAR H. NORRIS, M.D., M.A., Teaching Fellow in Pathology

PEDIATRICS

IRVINE McQUARRIE, Ph.D., M.D., Professor of Pediatrics and Head of the Department of Pediatrics


Reviews of

EDGAR J. HUENEKENS, M.A., M.D., Clinical Professor of Pediatrics


CHESTER A. STEWART, M.D., Ph.D., Clinical Professor of Pediatrics


"Should preventoria be converted into hospitals for patients with serious and contagious reinfecion forms of tuberculosis?" *Transactions of the Thirty-third Annual Meeting of the National Tuberculosis Association*, 1937.


ARILD E. HANSEN, M.D., Ph.D., Associate Professor of Pediatrics

"The present day status of the vitamins" (with Marguerite Booth). *Journal-Lancet*, 57:30-43. 1937.


ERLING S. PLATOU, M.D., Clinical Associate Professor of Pediatrics

“Cerebral changes in amaurotic family idiocy (Tay-Sachs disease)” (with A. B. Baker). 
Archives of Pathology, 25:75-82. 1938.

MAX SEHAM, M.D., Clinical Associate Professor of Pediatrics

“School hygiene.” International Clinics, 4:30-49. 1937.


Reviews of

Martha C. Hardy and Carolyn H. Hoeser, Healthy Growth in Modern Medicine, 5:86. 1937.


HYMAN S. LIPPMAN, M.D., Ph.D., Clinical Assistant Professor of Pediatrics

Reviews of

Marion L. Faegre, Child Care and Training in Minnesota Alumni Weekly, 37:30. 1937.


ALBERT V. STOESSER, M.D., Ph.D., Assistant Professor of Pediatrics


“Influence of induced variations in electrolyte and water exchanges with pitressin in bronchial asthma” (with M. M. Cook). Ibid., 38:636-38. 1938.


MILDRED R. ZIEGLER, Ph.D., Assistant Professor of Pediatrics


S. ALAN CHALLMAN, M.D., Clinical Instructor in Pediatrics


LYMAN R. CRITCHFIELD, M.D., Clinical Instructor in Pediatrics

"Health in the summer time." *Everybody's Health*, 22:2, 3, 8. 1937.

ROLLIN E. CUTTS, M.D., Clinical Instructor in Pediatrics


PAUL DWAN, M.D., Clinical Instructor in Pediatrics


ROBERT L. WILDER, M.D., Clinical Instructor in Pediatrics


JOHN M. ADAMS, M.D., Clinical Assistant in Pediatrics


AARON FRIEDELL, M.D., Clinical Assistant in Pediatrics


MARGUERITE BOOTH, M.D., Teaching Fellow in Pediatrics


EVELYN W. JOHNSON, M.D., Teaching Fellow in Pediatrics


ARTHUR E. KARLSTROM, M.D., Teaching Fellow in Pediatrics


William W. Lockwood, M.D., Teaching Fellow in Pediatrics

Wallace Sako, M.D., Teaching Fellow in Pediatrics

**Pharmacology**

Arthur D. Hirschfelder, M.D., Professor of Pharmacology and Head of the Department of Pharmacology


Raymond N. Bieler, M.D., Ph.D., Associate Professor of Pharmacology


Harold N. Wright, Ph.D., Assistant Professor of Pharmacology


**PHYSIOLOGY**

**Maurice B. Visscher**, Ph.D., M.D., Professor of Physiology and Head of the Department of Physiology


**Jesse F. McClendon**, Ph.D., Professor of Physiological Chemistry


**Frederick H. Scott**, Ph.D., M.B., D.Sc., Professor of Physiology


K. WILHELM STENSTROM, Ph.D., Professor of Biophysics


JOSEPH T. KING, M.D., Ph.D., Assistant Professor of Physiology


LEO T. SAMUELS, Ph.D., Assistant Professor of Physiological Chemistry


L. EARLE ARNOW, Ph.D., Instructor in Physiological Chemistry


A. Calvin Bratton, Ph.D., Instructor in Physiological Chemistry


Jesse W. Cavett, Ph.D., Instructor in Physiological Chemistry


Dean A. Collins, M.D., Ph.D., Instructor in Physiology


Herman Kabat, Ph.D., Instructor in Physiology


Carl E. Nurnberger, Ph.D., Instructor in Biophysics


Howard C. Peters, Ph.D., Instructor in Physiology


Richard H. Barnes, B.A., Teaching Assistant in Physiological Chemistry


Austin F. Henschel, M.A., Teaching Assistant in Physiology


GORDON K. MOE, B.S., Teaching Assistant in Physiology


EARL H. WOOD, B.A., Teaching Assistant in Physiology


FINN W. BERNHART, M.S., Teaching Fellow in Physiological Chemistry


PREVENTIVE MEDICINE AND PUBLIC HEALTH

GAYLORD W. ANDERSON, B.A., M.D., Professor of Preventive Medicine and Public Health and Head of the Department of Preventive Medicine and Public Health


ALBERT J. CHESLEY, M.D., Professor of Preventive Medicine and Public Health

"Shall we reduce our pneumonia deaths?" (with Lucy S. Heathman and O. McDaniel). Minnesota Medicine, 50:775. December, 1937.

Editor, Conference State and Provincial Health Authorities of North America Annual Proceedings. 1937.

J. ARTHUR MYERS, Ph.D., M.D., Professor of Preventive Medicine and Public Health

Tuberculosis among Children and Young Adults. (Second edition.) Springfield, Ill.: Charles C. Thomas. 1938. 401 pages.


"The bronchoscopist makes another contribution." Ibid., 57:463-64. 1937.
"Accomplishments in tuberculosis control during the past fifty years." Trained Nurse and Hospital Review, 100:560-66. 1938.
"Tuberculosis group, veterinarians, war successfully against disease." Journal of Sentinel, Winston-Salem, North Carolina, Child Health Section, p. 41. May 1, 1938.

Reviews of
Peter Roth, Atelektasen bei kavernoser Lungentuberkulose in ibid., 109:1479. 1937.
Clifford Hoyle and Michael Vaizey, Chronic Military Tuberculosis in ibid., 109:1842. 1937.
Diagnosis and Treatment of Pulmonary Tuberculosis. Minneapolis: University of Minnesota Mimeo Department. 1938. 4 pages.

Orianna McDaniel, M.D., Associate Professor of Preventive Medicine


HAROLD A. WHITTAKER, B.A., Associate Professor of Preventive Medicine and Public Health


The Pollution of the St. Croix River from the Dam at St. Croix Falls to the Junction with the Mississippi River, 1935 (with others). Report of Joint Investigation by the Minnesota State Board of Health and Wisconsin State Board of Health in collaboration with the Minnesota Department of Conservation. Minneapolis: University of Minnesota Mimeograph Department. 1937. 24 pages.


MARGARET G. ARNSTEIN, R.N., M.A., C.P.H., Assistant Professor of Preventive Medicine and Public Health and Supervisor of Public Health Nursing


LUCY S. HEATHMAN, Ph.D., M.D., Assistant Professor of Preventive Medicine and Public Health


MELLIE F. PALMER, R.N., B.S., C.P.H., Assistant Professor of Preventive Medicine and Public Health

*Summaries of Students’ Field Experience*. Minneapolis: University of Minnesota Mimeograph Department. 1937. 19 pages.

A guide for student public health nurses for observation of the tuberculosis control program as conducted by a city health department. Minneapolis: University of Minnesota Mimeograph Department. 1937. 2 pages.

GEORGE O. PIERCE, B.S., Assistant Professor of Preventive Medicine and Public Health


ALAN E. TRELOAR, Ph.D., Assistant Professor of Preventive Medicine and Public Health

PUBLICATIONS OF THE FACULTIES

HERMAN E. HILLEBOE, M.D., C.P.H., Instructor in Preventive Medicine and Public Health


MALVIN J. NYDAHL, M.D., Instructor in Preventive Medicine and Public Health


"Answers questions in tuberculosis campaign." Ibid., Vol. 16, No. 19, p. 3. April 7, 1938.

SURGERY

OWEN H. WANGENSTEEN, M.D., Ph.D., Professor of Surgery and Head of the Department of Surgery


"Remarks on total pneumonectomy." Ibid., 20:809-10. 1937.


"Remarks on diaphragmatic hernia." Ibid., 21:290-91. 1938.


"Medical student and teacher." Medical School Digest, Vol. 1, No. 4, inside cover. 1938.

WALLACE H. COLE, M.D., Professor of Orthopedic Surgery


ARTHUR A. ZIEROLD, M.D., Ph.D., Professor of Surgery

"Peripheral nerve injuries." Minnesota Medicine, 21:14-17. 1938.
CARL C. CHATTERTON, M.D., Clinical Associate Professor of Orthopedic Surgery


C. DONALD CREEVY, M.D., Ph.D., Associate Professor of Surgery, Head of the Division of Urology, and Assistant Dean of the Medical School


WALTER A. FANSLER, M.A., M.D., Clinical Associate Professor of Surgery


FREDERIC E. B. FOLEY, M.D., Ph.B., Clinical Associate Professor of Urology


JAMES M. HAYES, M.D., M.S., Clinical Associate Professor of Surgery


JAMES A. JOHNSON, M.D., Associate Professor of Surgery


RALPH T. KNIGHT, M.D., Associate Professor of Surgery


WILLIAM T. PEYTON, M.D., Ph.D., Associate Professor of Surgery


GILBERT J. THOMAS, M.D., Clinical Associate Professor of Urology


FRANKLIN R. WRIGHT, D.D.S., M.D., Associate Professor of Urology, Emeritus


"Syphilis as seen in the Neumann (Vienna) clinic thirty-five years ago." Minnesota Medicine, 21:213. 1938.

ARTHUR F. BRATRUD, M.D., Clinical Assistant Professor of Surgery


HERBERT A. CARLSON, M.D., Ph.D. in Surgery, Assistant Professor of Surgery


GEORGE R. DUNN, Ph.B., M.D., Assistant Professor of Surgery


EDWARD T. EVANS, M.D., Assistant Professor of Orthopedic Surgery


THOMAS J. KINSELLA, M.D., Assistant Professor of Surgery


"Total left pneumonectomy for primary bronchogenic carcinoma." Ibid., 20:808. 1937.

"Primary lobectomy for bronchiectasis." Ibid., 21:147. 1938.


N. LOGAN LEVEN, B.A., M.D., Ph.D., Assistant Professor of Surgery
Reviews of
Frederick Christopher, Minor Surgery in Surgery, 1:322. 1937.
Rudolph Schindler, Gastroscopy in ibid., 2:937. 1937.

STANLEY R. MAXEINER, M.D., Assistant Professor of Surgery

MARTIN NORDLAND, M.D., Clinical Assistant Professor of Surgery
"Preliminary hemostasis in thyroidectomy." Modern Medicine, 5:57-61. 1937.
"Torticollis." Minnesota Medicine, 20:482-83. 1937.
"Benign tumor of the stomach." Ibid., 21:76-77. 1938.
"Diaphragmatic hernia." Ibid., 21:290. 1938.
"Extraperitoneal dermoid cyst within the pelvis." Ibid., 21:293-95. 1938.

EMIL C. ROBITSHEK, M.D., Assistant Professor of Surgery
Abstracts of

ROScoe C. WEBb, M.D., Assistant Professor of Surgery

OSWAlD S. WYATT, M.D., Assistant Professor of Surgery

ARNOLD SCHWYZER, M.D., Professorial Lecturer in Surgery, Emeritus

JAMES K. ANDERSON, M.D., Instructor in Surgery

RICHARD R. CRANMER, M.D., Instructor in Surgery
"Endometriosis." (Discussion.) Minnesota Medicine, 21:71. 1938.
"Hepatic cirrhosis." Ibid., 21:143-44. 1938.
PUBLICATIONS OF THE FACULTIES

PHILIP F. DONOHUE, M.D., Instructor in Urology

WILLIAM A. HANSON, M.D., Instructor in Surgery

MYRON O. HENRY, M.D., Instructor in Orthopedic Surgery

LAWRENCE M. LARSON, M.D., Ph.D., Clinical Instructor in Surgery

OLOF A. OLSON, M.D., Instructor in Surgery

JOHN R. PAINE, M.D., M.S., Instructor in Surgery

CHARLES K. PETTER, M.D., Instructor in Surgery

CHARLES E. REA, M.D., Ph.D., Instructor in Surgery

CARL O. RICE, M.D., Ph.D., Instructor in Surgery

MAX W. ALBERTS, M.D., Clinical Assistant in Surgery
UNIVERSITY OF MINNESOTA

MILAND E. KNAPP, M.A., M.D., Assistant in Surgery


CARL LIND, JR., B.A., M.D., Clinical Assistant in Surgery


HAMLIN MATTSON, M.D., M.S., Assistant in Surgery


WALLACE P. RITCHIE, M.D., M.S., Clinical Assistant in Surgery


HORACE G. SCOTT, M.D., M.S., Assistant in Surgery


STEWART W. SHIMONEK, M.D., Assistant in Orthopedics


LOUIS SPERLING, M.D., Ph.D., Clinical Assistant in Surgery


GEORGE S. BERGH, M.D., M.S., Teaching Fellow in Surgery


WARNER F. BOWERS, B.A., M.D., Teaching Fellow in Surgery


**RAYMOND E. BUURGE, M.D., Teaching Fellow in Surgery**


**CARROLL J. BELLIS, M.D., Ph.D., Research Assistant in Surgery**


**CLARENCE DENNIS, M.D., Research Assistant in Surgery**


**C. BURLING ROESCH, M.D., Intern in Surgery**


**NERE J. SUNDET, B.A., M.D., Intern in Surgery**


**RICHARD L. VARCO, M.D., Intern in Surgery**


**SCHOOL OF NURSING**

**KATHARINE J. DENSFORD, M.A., R.N., Professor of Nursing and Director of the School of Nursing**

Laura R. Logan. New York: National League of Nursing Education. 4 pages.


**LUCILE PETRY, R.N., M.A., Assistant Professor of Nursing**

GERTRUDE I. THOMAS, Assistant Professor of Dietetics and Director of Nutrition


Review of Alida Pattie, Practical Dietetics in ibid., 100:159. February, 1938.

LUCILE HALVORSON, R.N., Teaching Assistant in Nursing


ALMIRA W. HOPPE, B.S., Supervisor, Operating Rooms and Teaching Head Nurse, University of Minnesota Hospitals


X-RAY DEPARTMENT OF THE UNIVERSITY OF MINNESOTA HOSPITALS

LEO G. RIGLER, M.D., Professor of Radiology


WALTER H. UDE, M.D., Assistant Professor of Radiology


MALCOLM M. COOK, M.D., Instructor in Radiology


Influence of induced variations in electrolyte and water exchanges with pitressin in bronchial asthma” (with A. V. Stoesser). Proceedings of the Society for Experimental Biology and Medicine, 38:636-38. 1938.

LEWIS G. JACOBS, M.D., Instructor in Radiation Therapy

PUBLICATIONS OF THE FACULTIES

RUDOLPH W. KOUCHY, M.D., Instructor in Radiology

RUSSELL W. MORSE, M.D., Instructor in Radiology

HAROLD O. PETERSON, M.D., Instructor in Radiology

IRWIN VIGNESS, Ph.D., Instructor in Biophysics

ALFRED B. GREENE, B.S., Assistant in Radiology

AMES W. NASLUND, M.D., Assistant in Radiology

CLARENCE P. TRUOG, M.D., Teaching Fellow in Radiology

THE SCHOOL OF DENTISTRY
ADMINISTRATION

WILLIAM F. LASBY, D.D.S., Dean of the School of Dentistry and School for Dental Hygienists and Professor of Prosthetic Dentistry and Orthodontia

CROWN AND BRIDGE WORK

PETER J. BREKHOUS, B.A., D.D.S., Professor of Crown and Bridge Work and Oral Diagnosis and Chairman of the Division of Oral Diagnosis
"Chemical Composition of Enamel and Dentin:
OPERATIVE DENTISTRY

MARK O. PATRIDGE, D.D.S., Associate Professor of Operative Dentistry

LEWIS W. THOM, D.D.S., Assistant Professor of Operative Dentistry

WILLIAM J. SIMON, B.A., D.D.S., Instructor in Operative Dentistry

ORAL HYGIENE AND PATHOLOGY

RAYMOND E. JOHNSON, D.D.S., Associate Professor of Oral Hygiene and Pathology

DOROTHEA RADUSCH, D.D.S., B.A., Instructor in Oral Hygiene and Pathology


ORTHODONTIA

CHARLES E. RUDOLPH, D.D.S., Professor of Orthodontia and Chairman of the Division of Orthodontia

PHYSIOLOGICAL CHEMISTRY

WALLACE D. ARMSTRONG, Ph.D., M.D., Instructor in Physiological Chemistry


"Chemical Composition of Enamel and Dentin:

PROSTHETIC DENTISTRY

CARL O. FLAGSTAD, D.D.S., Professor of Prosthetic Dentistry
Immediate Full Denture Service. 1937. 9 mimeographed pages.
The Hydro-colloids. 1937. 2 mimeographed pages.
THE COLLEGE OF PHARMACY
ADMINISTRATION

CHARLES H. ROGERS, D.Sc., Dean of the College of Pharmacy


"Are delayed course examinations adaptable to pharmaceutical education?" Ibid., 2:185-90. April, 1938.


FREDERICK J. WULLING, Phm.D., LL.M., D.Sc. causa honoris, Dean of the College of Pharmacy, Emeritus


"The chairman's address." Ibid. April, 1938.


"The 1938 American Pharmaceutical Association Meeting in Minneapolis." Ibid. April, 1938.

PHARMACEUTICAL CHEMISTRY

GLENN L. JENKINS, Ph.D., Professor of Pharmaceutical Chemistry


OLE GISVOLD, Ph.D., Instructor in Pharmaceutical Chemistry


CHARLES V. NETZ, M.S., Instructor in Pharmaceutical Chemistry


CURTIS H. WALDON, M.S., Teaching Assistant in Pharmaceutical Chemistry


PHARMACOGNOSY

EARL B. FISCHER, B.S., Associate Professor of Pharmaceutical Botany and Pharmacognosy


"A series of three articles on the 1938 convention of the American Pharmaceutical Association." *North Western Druggist*, p. 70, March; p. 63, April; p. 82. May, 1938.

CHARLES E. SMYTIE, Instructor in Pharmacognosy


RALPH F. VOIGHT, M.S., Teaching Assistant in Pharmacognosy


PHARMACY

GUSTAV BACHMAN, Phm.D., Professor of Pharmacy

"Important changes made in the U.S.P. XI and N.F. VI." *North Western Druggist*, pp. 16-20, July, 1937.


PUBLICATIONS OF THE FACULTIES

RUGNAR ALMIN, Phm.C., B.S., Instructor in Pharmacy


Tested Formulas for Dental Preparations. 1938. 8 mimeographed pages. 500 copies distributed to the Minnesota dentists at their annual convention.

Prescriptions Commonly Prescribed by Name. 1938. 5 mimeographed pages. 100 copies distributed to Minnesota pharmacists.

GEORGE CROSSEN, M.S., Instructor in Pharmacy


THE COLLEGE OF EDUCATION

ADMINISTRATION

MELVIN E. HAGGERTY, Ph.D. (deceased), Dean of the College of Education and Professor of Educational Psychology


WESLEY E. PEIK, Ph.D., Acting Dean of the College of Education and Professor of Education


ALVIN C. EURICH, Ph.D., Assistant Dean of the College of Education and Professor of Educational Psychology


AGRICULTURAL EDUCATION

ALBERT M. FIELD, Ph.D., Professor of Agricultural Education


Mimeographed suggestive courses of study in agriculture and miscellaneous teaching helps.

LEIGH H. HARDEN, B.S., Instructor in Agricultural Education


Organization of a Course of Study in 4-H Leadership. Minneapolis: University of Minnesota Mimeograph Department. 1938. 118 pages.

ART EDUCATION

ROBERT S. HILPERT, M.S., Associate Professor of Art Education

"Fine arts." Pages 36-40 in National Committee on Research in Secondary Education, Needed Research in Secondary Education. Columbus, Ohio: Ohio State University. 1938. ( Mimeographed.)

ELMER E. HARMES, B.S., Instructor in Art Education

The Benefit of Art Clubs to Individual Members. La Crosse, Wis.: La Crosse Business Men's Art Club. 1937. 1 page.

EDWIN ZIEGFELD, M.L.A., Instructor in Art and Resident Director, Owatonna Art Education Project


Home Garden Design. Minneapolis: University of Minnesota Mimeograph Department. 1938. 18 pages.

EDUCATIONAL RESEARCH

T. RAYMOND McCONNELL, Ph.D., Professor of Education and Chairman of the University Committee on Educational Research


A Study of Instructors at the University of Minnesota. Minneapolis: University of Minnesota Committee on Educational Research. 1938. 27 ditto pages.


**LEVI A. LOVEGREN, Ph.D., Instructor in Education**


**GENERAL EDUCATION**

**LEO J. BRUECKNER, Ph.D., Professor of Elementary Education**


**HARL R. DOUGLASS, Ph.D., Professor of Secondary Education**


"The guidance of youth in bridging the gap between school and life." Pages 36-44 in *Summary of Conference on Guidance and Mental Hygiene*. Los Angeles, Calif.: University of Southern California. 1937.


"What business education problems do administrators consider important?" *Business Education World*, 18:3-5. September, 1937.


**PALMER O. JOHNSON, Ph.D., Professor of Education**


*New and Emergency Federal Program of Major Educational Importance.* (National Youth Administration Staff Study, No. 4.) Report to President Roosevelt's Advisory Committee on Education. October, 1937. 266 pages.


Reviews of


**DORA V. SMITH, Ph.D., Professor of Education**


**EDGAR B. WESLEY, Ph.D., Professor of Education**


Reviews of


PUBLICATIONS OF THE FACULTIES

ABE PEPINSKY, M.A., Associate Professor of Music Education


Quantitative Analysis of Musical Sounds. Minneapolis: University of Minnesota Mimeograph Department. 1937. 16 mimeographed pages for class use.

CLIFFORD P. ARCHER, Ph.D., Assistant Professor of Education and Educational Psychology


GUY L. BOND, Ph.D., Assistant Professor of Education


MARCIA EDWARDS, Ph.D., Assistant Professor of Educational Psychology


MARVIN J. VAN WAGENEN, Ph.D., Assistant Professor of Educational Psychology


Profile chart for combining scores on tests of verbal competence with scores on reading scales for primary pupils to indicate quality of work in reading, with directions for using. Minneapolis: Educational Publishing Company, Inc. 1938.

Profile chart for combining scores on tests of verbal competence and scores on reading scales for junior and senior high school pupils to indicate quality of reading ability, with directions for using. Minneapolis: Educational Publishing Company, Inc. 1938.

Profile chart for combining scores on tests of verbal competence and scores on attainment scales for pupils in grades four through eight to indicate quality of school work, with directions for using. Minneapolis: Educational Publishing Company, Inc. 1938.


FRED BROWN, Ph.D., Lecturer in Education


PRUDENCE CUTFRIGHT, M.A., Lecturer in Education


Reviews of

**Horace T. Morse, M.A., Instructor in Education**
*Final Report to Professor A. C. Krey, Chairman of the Committee of the University of Minnesota on Curriculum Research in the Social Studies, on the Evaluation of the Program of the Experimental Curriculum in Four Minneapolis Public Schools During the School Year 1936-1937*. Minneapolis: University of Minnesota Mimeograph Department. 61 pages.
Correspondence course, introduction, lesson report sheets, and tests, for *Introduction to Secondary School Teaching Part II*. Minneapolis: University of Minnesota General Extension Division, Correspondence Study Department. 1938. 77 mimeographed pages.

**Hazel B. Nohavec, Mus.D., Instructor in Music Education**

**Dale O. Patterson, Ph.D., Instructor in Education**

**George E. Hollister, M.A., Teaching Assistant in Education**

**Home Economics Education**

**Clara M. Brown, M.A., Associate Professor of Home Economics Education**
Rating Scale for Personal Qualities and Abilities. (Revised edition.) University of Minnesota Press. 1938. 2 pages.
Food Score Cards (with Alice M. Child and others). Minneapolis: University of Minnesota Printing Department. 1937. 48 pages.

**Ella J. Rose, M.A., Assistant Professor of Home Economics Education**
TRADE AND INDUSTRIAL EDUCATION

HOMER J. SMITH, Ph.D., Professor of Industrial Education


“Industrial arts.” Pages 194-96 in *ibid*.


History, Constitution, and Minutes of the National Association of Industrial Teacher Trainers. Baltimore Meeting of the American Vocational Association, December 1-4, 1937. 16 mimeographed pages.

HAROLD T. WIDOWSON, M.A., Assistant Professor of Industrial Education


RALPH T. CRAIGO, B.S., Instructor in Trade and Industrial Education


“What the shop instructor needs to know.” *Industrial Arts and Vocational Education*, 26:177-78. June, 1937.


Revised series of advisement, counseling and guidance leaflets sent to 800 high schools in Minnesota and adjoining states, 1937-38.

A series of articles on trade advisement sent to, and published by, a large number of 600 newspapers belonging to the Minnesota Editorial Association, 1937-38.

UNIVERSITY HIGH SCHOOL

WILLIAM S. CARLSON, Ph.D., Assistant Professor of Education and Director of Training School

Editor

*Directed Learning*. Minneapolis: University of Minnesota Mimeograph Department. April, 1938. 24 pages.


*Handbook of the University High School*. Minneapolis: University High School Printing Department. May, 1938. 27 pages.
OLIVER R. FLOYD, Ph.D., Assistant Professor of Education and Principal of the University High School


LESLIE BERGREN, B.S., Instructor in Science


DOROTHY BOVEE, M.A., Instructor in History

Syllabus for a course in the history of the development of civilization. 1937. 116 mimeographed pages.

JAMES E. CURTIS, M.S., Instructor in Physical Education


JOSEPH H. DAOUST, M.A., Instructor in Mathematics


RICHARD M. DRAKE, M.A., Instructor in Mathematics


CLAUDE EGGERTSEN, M.A., Instructor in History


ROYAL B. EMBREE, JR., M.A., Instructor and Director of Personnel


ARNO JEWETT, M.A., Instructor in English


Conversation rating scale. Minneapolis: University of Minnesota Mimeograph Department. 1938. 2 pages.
PUBLICATIONS OF THE FACULTIES

LUCIEN B. KINNEY, Ph.D., Instructor in Education


WALTER LOBAN, M.A., Instructor in English


Directed Study in the English Class. 1938. 5 mimeographed pages. Distributed to superintendents at Schoolmen's Week, April, 1938.

WILLIAM J. MICHIELS, M.A., Instructor in Industrial Education

Industrial Arts in University High School. Minneapolis: University High School Printing Department. April, 1938. 8 pages.

GEORGE F. MOTT, M.A., Instructor in Social Studies

"Housing of college students." Transactions and Proceedings of the National Association of State Universities, 35:82-102. 1937.

"The conference technique as the center of the student-teacher induction process." Educational Administration and Supervision, 24:55-60. 1938.


SHAILE A. PETERSON, M.A., Instructor in Science

Mimeographed tests for class use. 1937-38. 20 mimeographed pages.
Assignment and lesson plan sheets. 1938. 3 plans, 1 page each.

MARY J. WALKER, Ph.D., Instructor in French


VIRGIL R. WALKER, M.A., Instructor in Mathematics


LUCY M. WILL, Ph.D., Instructor in German


THE GRADUATE SCHOOL—MAYO FOUNDATION

ADMINISTRATION

GUY STANTON FORD, Ph.D., LL.D., Litt.D., Dean of the Graduate School, Professor of History, and Acting President of the University of Minnesota


**RICHARD E. SCAMMON, Ph.D., LL.D., Distinguished Professor in the Graduate School**

*Medical History and Bibliography*. Syllabus for class use. 1937. 50 mimeographed pages.


"Talk before the Committee on Medical Economics of the Minnesota State Medical Association, April 3." *Minnesota Medicine*, 21:341. 1938.


Growth of organs. Program No. 5 in the Radio Forum on Growth and Development of the Child, under the joint auspices of the National Congress of Parents and Teachers, the American Academy of Pediatrics, and the National Broadcasting Company. 1937. 6 mimeographed pages.

**HERBERT M. F. FREUNDLICH, Dr. phil., Dr. h.c. (Utrecht), Professor of Colloidal Chemistry**


Reviews of


**DONALD C. BALFOUR, M.D., Professor of Surgery and Director of the Mayo Foundation**


LOUIS B. WILSON, M.D., Professor of Pathology and Director Emeritus of the Mayo Foundation


**BACTERIOLOGY AND IMMUNOLOGY**

EDWARD C. ROSENOW, M.D., Professor of Bacteriology


**LUTHER THOMPSON, Ph.D., Assistant Professor of Bacteriology**


**BIOCHEMISTRY**

ARNOLD E. OSTERBERG, Ph.D., Associate Professor of Biochemistry


ANCEL KEYS, Ph.D., Associate Professor of Biochemistry


**WILLARD M. HOEHN, Ph.D., Instructor in Biochemistry**


**BERNARD F. MCKENZIE, B.S., Instructor in Biochemistry**


**BIOPHYSICS**

**CHARLES SHEARD, Ph.D., Professor of Biophysics**

"The Circulation Time of the Blood of Dogs, Determined by Ionization (Geiger Counter) Methods:


**EDWARD J. BALDES, Ph.D., Associate Professor of Biophysics**


**JOSEPH BERKSON, M.A., M.D., D.Sc., Associate Professor of Biometry and Medical Statistics**


MEDICINE

WALTER C. ALVAREZ, M.D., Professor of Medicine


"A few don'ts for dietitians." Modern Hospital, 50:102, 104. March, 1938.


"A suggestion as to the mode of publication of therapeutic results." (EditoriaL) Ibid., 5:192-93. May, 1938.


ARLIE R. BARNES, M.D., M.S. in Medicine, Professor of Medicine


GEORGE B. EUSTERMAN, M.D., Professor of Medicine


NORMAN M. KEITH, M.D., Professor of Medicine


"Acute bismuth poisoning, with recovery" (with A. E. Osterberg). Archives of Internal Medicine, 60:415-23. September, 1937.


RUSSELL M. WILDER, M.D., Professor of Medicine


HENRY W. WOLTMAN, M.D., Ph.D. in Neurology, Professor of Neurology

"Funicular degeneration of the spinal cord without pernicious anemia: neurologic aspects of sprue, non-tropical sprue and idiopathic steatorrhea" (with F. J. Heck). Archives of Internal Medicine, 60:272-300. August, 1937.


EDGAR V. ALLEN, M.D., M.S. in Medicine, Associate Professor of Medicine


EDWIN G. BANNICK, M.D., Associate Professor of Medicine


JACOB A. BARGEN, M.D., M.S. in Medicine, Associate Professor of Medicine


"Management of the irritable colon (mucous colitis)." Medical Bulletin of the Veterans' Administration, 14:103-104. October, 1937.


**PHILIP S. HENCH, M.D., Associate Professor of Medicine**


"Effect of jaundice on chronic infectious (atrophic) arthritis and on primary fibrositis: further observations; attempts to reproduce the phenomenon." *Archives of Internal Medicine*, 61:451-80. March, 1938.

**GEORGE M. HIGGINS, Ph.D., Associate Professor of Experimental Biology**


**FRANK H. KRUSEN, M.D., Associate Professor of Physical Medicine**


**FREDERICK P. MOERSCH, M.D., Associate Professor of Neurology**


HERMAN J. MOERSCH, M.D., M.S. in Medicine, Associate Professor of Medicine


HAMILTON MONTGOMERY, M.D., M.S. in Dermatology and Syphilology, Associate Professor of Dermatology and Syphilology


WILLIAM A. PLUMMER, M.D., Associate Professor of Medicine


BENJAMIN F. SMITH, M.D., Associate Professor of Psychiatry


ALBERT M. SNELL, M.D., M.S. in Medicine, Associate Professor of Medicine


PUBLICATIONS OF THE FACULTIES


Fredrick A. Willius, M.D., M.S. in Medicine, Associate Professor of Medicine


Melvin W. Binger, M.A., M.D., Assistant Professor of Medicine


Alex E. Brown, M.D., M.S. in Medicine, Assistant Professor of Medicine


Philip W. Brown, M.D., M.S. in Medicine, Assistant Professor of Medicine


Mandred W. Comfort, M.D., M.S. in Neurology, Assistant Professor of Medicine


Harold C. Habein, M.D., Assistant Professor of Medicine


Frank J. Heck, M.D., Assistant Professor of Medicine

Bayard T. Horton, M.D., M.S. in Medicine, Assistant Professor of Medicine


Edwin J. Kepler, M.D., M.S. in Medicine, Assistant Professor of Medicine


Harry L. Smith, M.D., M.S. in Medicine, Assistant Professor of Medicine


Edward H. Rynearson, M.D., M.S. in Medicine, Assistant Professor of Medicine


ELMER G. WAKEFIELD, M.D., Assistant Professor of Medicine


CHARLES H. WATKINS, M.D., Ph.D., Assistant Professor of Medicine


JAMES F. WEIR, M.D., Assistant Professor of Medicine


Dwight L. Wilbur, M.D., M.S. in Medicine, Assistant Professor of Medicine


HARRY G. WOOD, M.D., Assistant Professor of Medicine


THOMAS J. DRY, M.D., M.S. in Medicine, Instructor in Medicine


EDGAR A. HINES, M.D., M.S. in Medicine, Instructor in Medicine

HORTON C. HINSHAW, M.D., Instructor in Medicine

GILES A. KOELSCHE, M.D., M.S. in Medicine, Instructor in Medicine

CHARLES H. SLOCUMB, M.D., Instructor in Medicine

OBSTETRICS AND GYNECOLOGY

ROBERT D. MUSSEY, M.D., Professor of Obstetrics and Gynecology

LAURENCE M. RANDALL, M.D., Associate Professor of Obstetrics and Gynecology

ARTHUR B. HUNT, M.D., Instructor in Obstetrics and Gynecology
PUBLICATIONS OF THE FACULTIES

OPHTHALMOLOGY, OTOLOGY, RHINOLOGY, AND LARYNGOLOGY

WILLIAM L. BENEDICT, M.D., Professor of Ophthalmology


HAROLD I. LILLIE, M.D., Professor of Otolaryngology


GORDON B. NEW, M.D., Professor of Otolaryngology


BERT E. HEMPSTEAD, M.D., Associate Professor of Otolaryngology


AVERY D. PRANGEN, M.D., Associate Professor of Ophthalmology


HENRY P. WAGENER, M.D., M.S. in Ophthalmology, Associate Professor of Ophthalmology


FRED Z. HAVENS, M.D., Assistant Professor of Otolaryngology


C. WILBUR RUCKER, M.D., M.S. in Ophthalmology, Assistant Professor of Ophthalmology


HUGH L. BAIR, M.D., Instructor in Ophthalmology


ALBERT C. BRODERS, M.D., M.S. in Pathology, Professor of Pathology


JAMES W. KERNohan, M.D., M.A., Professor of Pathology


WILLIAM C. MACCARTY, M.S., M.D., Professor of Pathology


THOMAS B. MAGATH, M.D., Professor of Parasitology


HAROLD E. ROBERTSON, M.D., Professor of Pathology


ARTHUR H. SANFORD, M.A., M.D., Professor of Pathology


WILLIAM H. FELDMAN, D.V.M., M.S., Associate Professor of Comparative Pathology

"The development of the local cellular reaction to tuberculin in sensitized calves" (with C. P. Fitch). Archives of Pathology, 24:599-611. 1937.


**RICHARD W. CRAGG, M.D., M.S. in Pathology, Instructor in Pathology**


**JOHN C. HENTHORNE, M.D., M.S. in Pathology, Instructor in Pathology**


**JOHN R. MCDONALD, M.D., M.S. in Pathology, Instructor in Pathology**


**PEDIATRICS**

**HENRY F. HELMHOlz, M.D., Professor of Pediatrics**


**SAmUEL AMBERG, M.D., Associate Professor of Pediatrics**


**ROGER L. KENNEDEy, M.D., M.S. in Pediatrics, Associate Professor of Pediatrics**

PHYSIOLOGY AND PHYSIOLOGICAL CHEMISTRY

WALTER M. BOOTHBY, M.D., Professor of Experimental Metabolism


EDWARD C. KENDALL, Ph.D., Professor of Physiological Chemistry


JESSE L. BOLLMAN, M.D., Associate Professor of Physiology


HIRAM E. ESSEX, Ph.D., Associate Professor of Physiology

"The Circulation Time of the Blood of Dogs, Determined by Ionization (Geiger Counter) Methods:


**Harold L. Mason, Ph.D., Assistant Professor of Physiological Chemistry**


**Marschelle H. Power, Ph.D., Assistant Professor of Physiological Chemistry**


**Eunice V. Flock, Ph.D., Instructor in Chemistry**


**Julia F. Herrick, Ph.D., Instructor in Physiology**


**Radiology**

**Harry H. Bowing, M.D., Professor of Radiology**

ARThUR U. DESJDARINS, M.D., M.S. in Radiology, Professor of Radiology


BYRL R. KIRKLIN, M.D., Professor of Radiology


"The clinical and roentgenologic manifestations and surgical treatment of diaphragmatic hernia, with a review of 131 cases" (with S. W. Harrington). Ibid., 30:147-56. February, 1938.


JOHN D. CAMP, M.D., Associate Professor of Radiology


EUGENE T. LEDDY, M.D., Associate Professor of Radiology


ROBERT E. FRICKE, M.D., Assistant Professor of Radiology


CHARLES G. SUTHERLAND, M.D., Assistant Professor of Radiology

"The Camino Real and the Panama Canal, Parts II, III, IV, and Conclusion. Ibid., Vol. 22, No. 7, pp. 4, 8, 10, 14, July; No. 8, pp. 9, 10, 13-14, August; No. 9, pp. 9-10, September; No. 10, pp. 8, 15. October, 1937.


ALBERT MILLER, M.D., Instructor in Radiology


HARRY M. WEBER, M.D., Instructor in Radiology


SURGERY

ALFRED W. ADSON, M.D., M.S. in Surgery, Professor of Neurosurgery


"Tratamiento quirurgico de la hipertension esencial, por medio de la reseccion de los nervios esplacnicos y del primero y segundo ganglios simpaticos lumbares." Revista Mexicana de Cirugia Ginecologia y Cancer, 6:229-46. May, 1938.


WILLIAM F. BRAASCH, M.D., Professor of Urology


LOUIS A. BUH, M.D., Professor of Proctology


HUGH CABOT, M.D., Professor of Surgery


RALPH K. GHORMLEY, M.D., Professor of Orthopedic Surgery


STUART W. HARRINGTON, M.D., M.S. in Surgery, Professor of Surgery


"Carcinoma of the breast: results of surgical treatment when the carcinoma occurred in the course of pregnancy or lactation and when pregnancy occurred subsequent to operation (1910-1933)." Annals of Surgery, 106:690-700. October, 1937.


MELVIN S. HENDERSON, M.D., Professor of Orthopedic Surgery


JOHN S. LUNDY, M.D., Professor of Anesthesia


FRANK C. MANN, M.D., Professor of Experimental Surgery


"The role of the liver as the commissariat of the body." American Journal of Digestive Diseases and Nutrition, 4:355-64. August, 1937.


JAMES C. MASSON, M.D., Professor of Surgery


CHARLES H. MAYO, M.D., Professor of Surgery

"All milk must be made safe by pasteurizing." Everybody's Health, Vol. 22, No. 11, pp. 4-5, 22. November, 1937.

PAUL A. O'LEARY, M.D., Professor of Dermatology and Syphilology

"Sodium amytal as an aid to psychotherapy in a case of dermatitis factitia" (with L. M. Eaton). Archives of Dermatology and Syphilology, 36:544-47. September, 1937.


JOHN DEJ. PEMBERTON, M.D., M.S. in Surgery, Professor of Surgery

WALTMAN WALTERS, M.D., M.S. in Surgery, Professor of Surgery
"Recent advances in the surgical treatment of lesions of the biliary tract." Ibid., 3:786-98. May, 1938.

LOUIE T. AUSTIN, D.D.S., Associate Professor of Dental Surgery
"Decalcification of teeth as a result of obstipation with long continued vomiting: report of a case" (with J. A. Bargen). Journal of the American Dental Association and Dental Cosmos, 24:1271-73. August, 1937.

VIRGIL S. COUNSELLER, M.D., M.S. in Surgery, Associate Professor of Surgery


**WINCHELL McK. CRAIG, M.D., M.S. in Surgery, Associate Professor of Neurosurgery**


**CLAUDE F. Dixon, M.D., M.S. in Surgery, Associate Professor of Surgery**


**HENRY W. MEYERING, M.D., M.S. in Orthopedic Surgery, Associate Professor of Orthopedic Surgery**


**HOWARD K. GRAY, M.S. in Surgery, Assistant Professor of Surgery**


J. Grafton Love, M.D., M.S. in Surgery, Assistant Professor of Neurosurgery


"Spina bifida occulta with report of a case in which there was an occult myelomeningocele" (with H. F. Buchstein). Surgery, 3:215-25. February, 1938.

Charles W. Mayo, M.D., M.S. in Surgery, Assistant Professor of Surgery


"Ovarian tumors among young girls" (with W. L. Butsch). Minnesota Medicine, 21:256-58. April, 1938.


James T. Priestley, M.D., Ph.D. in Surgery, Assistant Professor of Surgery


"Tumor in abdominal wall from a pine needle swallowed several years previously" (with H. L. Smith). Ibid., 110:2067-68. June 18, 1938.

Carl F. Schlotthauer, D.V.M., Assistant Professor of Veterinary Medicine

"Recurrent ophthalmia (iritis oculitis)." Veterinary Medicine, 33:210-15. May, 1938.


EDWARD N. COOK, M.D., M.S. in Surgery, Instructor in Urology


JOHN L. EMMETT, M.D., M.S. in Urology, Instructor in Urology


HARRY B. MACKEY, M.D., Instructor in Orthopedic Surgery


LOUIS G. STUHLER, M.D., Instructor in Urology


EDWARD B. TUOHY, M.D., M.S. in Anesthesia, Instructor in Anesthesia


JOHN M. WAUGH, M.D., M.S. in Surgery, Instructor in Surgery


THE SCHOOL OF BUSINESS ADMINISTRATION

RUSSELL A. STEVENSON, Ph.D., Dean of the School of Business Administration


EUGEN ALTSCHUL, Re.Pol.D., Visiting Professor of Economics

Reviews of


ROY G. BLAKEY, Ph.D., Professor of Economics


FREDERIC B. GARVER, Ph.D., Professor of Economics


ALVIN H. HANSEN, Ph.D., Professor of Economics

PUBLICATIONS OF THE FACULTIES

Can We Control the Boom? (with A. W. Marget, B. Ohlin, F. Machlup, O. S. Powell). Day and Hour Series No. 20. Minneapolis: University of Minnesota Press. 1937. 32 pages.

ARTHUR W. MARGET, Ph.D., Professor of Economics
Can We Control the Boom? (with B. Ohlin, F. Machlup, O. S. Powell, and A. H. Hansen). Day and Hour Series No. 20. Minneapolis: University of Minnesota Press. 1937. 32 pages.

Reviews of
J. G. Kretschmann, Il problema del trend secolare nelle fluctuazioni dei prezzi in ibid., 45:542-44. 1937.
R. Baschi, Principi di scienza economica in ibid., 27:577-78. 1937.

BRUCE D. MUDGETT, Ph.D., Professor of Economics and Statistics

ROLAND S. VAILE, Ph.D., Professor of Economics and Marketing

DALE YODER, Ph.D., Professor of Economics and Industrial Relations
Reviews of
GT-99, Twenty Years a Labor Spy in ibid., 44:1362-64. December, 1937.

RICHARD L. KOZIELKA, Ph.D., Associate Professor of Economics and Statistics


EMERSON P. SCHMIDT, Ph.D., Associate Professor of Economics


Reviews of


ARTHUR R. UPGREN, Ph.D., Associate Professor of Economics

The Effects of Federal Monetary Policy on Western Canadian Economy, Part III. Manitoba's Case, a Submission to the Royal Commission on Dominion-Provincial Relations by the Government of the Province of Manitoba. Winnipeg: King's Printer. November, 1937. 47 pages, 38 tables.


ARTHUR M. BORAK, Ph.D., Assistant Professor of Economics


Correspondence Study course in the Elements of Public Finance. 1937. 90 ditto pages.

A. HAMILTON CHUTE, Ph.D., Assistant Professor of Marketing


ERNESTINE C. DONALDSON, M.A., Assistant Professor of Secretarial Training


HARRY J. OSLUND, B.A., Assistant Professor of Accounting


"Revised cost data on wholesale distribution of proprietary drugs and sundries." *Proceedings of Sixty-third Meeting of the National Wholesale Druggists' Association* at White Sulphur Springs, West Virginia, October 4-7, 1938, pp. 163-72.
FRANCIS M. BODDY, M.A., Lecturer in Economics

HELEN G. CANOYER, M.A., Instructor in Economics and Marketing

RICHARD A. GRAVES, M.A., Instructor in Economics
Correspondence Study course in Economics 6-7, Principles of Economics. 1937-38. 130 mimeographed pages.

BENJAMIN H. HIGGINS, M.Sc., Instructor in Economics
Mimeographed material on mechanics of foreign exchanges, for class use. 1937-38. 3 pages.
Comments on Vîlfredo Pareto. Mimeographed material for class use and private circulation. 1937-38. 7 pages.

JOHN K. LANGUM, M.A., Instructor in Economics
Syllabi, outlines, and problems for class use. 42 mimeographed pages. 1937-38.

LAURENCE R. LUNDEN, B.A., Instructor in Economics and Editor of *Financial and Investment Review*
*The Investment Problem of the Commercial Bank*. Address given before Wisconsin Bankers' Conference, April 5, 1938. 25 mimeographed pages.

MERTON P. STOLTZ, M.A., Instructor in Economics
"Indices of import prices, export prices and net barter terms of trade, United States, 1890 to 1935." Page 585 in *Ibid*. 
HENRY H. VILLARD, B.A., Instructor in Economics


Reviews of

ROBERT B. WESTBROOK, M.A., Instructor in Economics

Tax Delinquency and the County Ownership of Land in South Dakota. South Dakota State Agricultural Experiment Station Bulletin No. 314. 1938. 81 pages.

JOHN A. NORDIN, M.A., Teaching Assistant in Economics

Problems for class use. 1937-38. 4 mimeographed pages.

FLOYD R. SIMPSON, M.A., Teaching Assistant in Economics


Problems for class use. 1937-38. 4 mimeographed pages.

THE GENERAL COLLEGE

MALCOLM S. MACLEAN, Ph.D., Professor and Director of the General College

Report of Progress General College University of Minnesota. Minneapolis: University of Minnesota Mimeograph Department. 1937. 68 pages.


Building the University of Tomorrow (with R. F. Sletto, C. R. Pace, and others). Minneapolis: University of Minnesota Printing Department. 1937. 52 pages.


"The General College of the University of Minnesota." Eleusis of Chi Omega, 40:81-84. 1938.


Reviews of
PUBLICATIONS OF THE FACULTIES


Editor

C. Gilbert Wrenn, Ph.D., Professor of Education and Assistant Director of the General College

"Counseling with students." Chapter IV, pages 119-43 in ibid.
"Report of the University of Minnesota Committee on Training for Recreation Leadership" (with C. Nordly, Ruth Boynton, and others). Pages 76-83 in ibid.
"Organization of the college for guidance," "Diagnosis and clinical counseling" (with D. D. Feder), "Selection and training of faculty and student counselors" (with D. R. Stuit), and "Administration of student personnel work." Report of the Hazen Conference on Student Guidance and Counseling, 1937, pages 13-26.
"Charter for the American College Personnel Association" (with Esther Lloyd-Jones and K. Onthank). Proceedings of the American College Personnel Association, Atlantic City, February, 1938. (Also published as a reprint.)

Ivol Spafford, Ph.D., Associate Professor of Euthenics


Francis S. Appel, M.A., Assistant Professor of English
The Use of the Writing Laboratory of General College in the Fulfillment of the Requirement for Freshman English. 1938. 8 mimeographed pages.

John G. Darley, Ph.D., Assistant Professor of Psychology and Research Counselor
Technical Outline of the Study of General College Adolescents (with Cornelia T. Williams). Minneapolis: University of Minnesota Mimeograph Department. 1938. 172 pages.
"Procedures and progress report of the study of General College adolescents" (with Cornelia T. Williams). Pages 1-10 in General College Personnel Studies. Minneapolis: University of Minnesota Mimeograph Department. 1938.


"Tested maladjustment related to clinically diagnosed maladjustment." Ibid., 21:632-42. 1937.


RAY FAULKNER, Ph.D., Instructor in Art Appreciation


Tests and Worksheets for Planning the Home. Minneapolis: University of Minnesota Mimeograph Department. 1937. 20 pages.

Worksheets for Planning the Interior. Minneapolis: University of Minnesota Mimeograph Department. 1938. 5 pages.

Development of Art Studies. 1937-38. 2 mimeographed pages.

Evaluation of the Arts Program. 1937-38. 3 mimeographed pages.

Paintings exhibited. 1937-38:

State Fair Art Exhibition. 1 painting.
Twin City Art Show, Minneapolis Institute of Arts. 3 paintings.
Artists' Union Show. 2 paintings.
University Gallery. One-man show of 15 paintings.

GERALD A. HILL, B.A., Instructor in General Arts


Addenda No. 1 to Recorded Music. Minneapolis: University of Minnesota Mimeograph Department. 1938. 15 pages.

Program Guide to Act I of "Die Walküre." Minneapolis, University of Minnesota Mimeograph Department. 1938. 13 pages.


Union Music Hour Programs. Minneapolis: University of Minnesota Mimeograph Department. 1938. 60 pages.

Program Guide to the Symphony No. 7 by Jan Sibelius. Minneapolis: University of Minnesota Mimeograph Department. 1938. 16 pages.


Leaflets on musical subjects, composers, etc., for class use. 30 pages.
CARLOS W. NESTLER, Instructor in Photography


Mimeographed syllabus on photography for General College course in Photography. 1938. 10 pages.

C. ROBERT PACE, Ph.D., Instructor in Social Studies

Building the University of To-morrow (with R. F. Sletto, M. S. MacLean, and others). Minneapolis: University of Minnesota Printing Department. 1937. 52 pages.


Survey of Social-Political-Economic Opinions. University of Minnesota Mimeograph Department. 1937. 2 pages.

EDGAR W. WEAVER, B.A., Instructor in English

Film and Drama: An Introduction to Theatre Arts. Minneapolis: University of Minnesota Mimeograph Department. 1938. 103 pages.

CORNELIA T. WILLIAMS, Ph.D., Instructor and Research Counselor


"Procedure and progress report of the study of General College adolescents" (with J. G. Darley). Pages 1-10 in General College Personnel Studies. Minneapolis: University of Minnesota Mimeograph Department. 1938.

ELMO C. WILSON, M.A., Instructor in Contemporary Affairs


"Quiz of the week," Syndicated newspaper feature appearing weekly during 1937-38 in the Chicago Times and other papers. Syndicated by the Register and Tribune Syndicate, Des Moines, Iowa.

HEDVIG YLVISAKER, Ph.D., Instructor in Social Studies

Mimeographed syllabi for social studies courses in Grades V-VI, Grade IX and Junior College. 1937. 120 pages.
EVELYN KATZ, Ph.D., Assistant in the General College

"Some factors affecting resumption of interrupted activities by pre-school children."

GENERAL EXTENSION DIVISION

RICHARD R. PRICE, Ed.D., Professor and Director of University Extension


"Dr. Price addresses the state boards." Casket and Sunny Side, Vol. 68, No. 4, p. 40. April, 1938.


CLARE L. ROTZEL, B.C.S., C.P.A., Associate Professor of Accounting

Syllabi, tests, mimeographed material, etc. Case study in a budgetary control method for a steel foundry. 1937-38.

HERBERT SORENSON, Ph.D., Associate Professor of Education


CHARLES H. DOW, C.E., Assistant Professor of Civil Engineering and Resident Manager for St. Paul Branch of General Extension Division


OLIVER C. EDWARDS, B.S., M.E., Assistant Professor of Mechanical Engineering

The Catenary. Minneapolis: University of Minnesota General Extension Division. 1937. 20 dittoed pages.

Rectilinear and Curvilinear Motion. Minneapolis: University of Minnesota General Extension Division. 1937. 78 dittoed pages.

Syllabus for class use. 1938. 15 mimeographed pages.

WENDELL WHITE, Ph.D., Assistant Professor of Psychology


CURTIS E. AVERY, M.A., Instructor in English


"The successful reader." Ibid., Vol. 12, No. 9, pp. 1, 2, 4. May, 1938.

Editor, Interpreter, 1937-38.

Mimeographed syllabi, texts, and tests for Correspondence Study courses, English 27 and 28 (Advanced Writing I and II). 1937. 154 pages.
PUBLICATIONS OF THE FACULTIES

ALBERT M. FULTON, Ph.M., Instructor in Speech
Extempore Speaking I. 5 lectures. Minneapolis: University of Minnesota Mimeograph Department. 1937. 20 pages.
Extempore Speaking II. 5 lectures. Minneapolis: University of Minnesota Mimeograph Department. 1938. 15 pages.
Group Discussion. 16 lessons. Minneapolis: University of Minnesota Mimeograph Department. 1938. 25 pages.
How To Develop Confidence and Improve Your Speaking. 1938. 17 lectures. 150 typewritten pages.
Mimeographed speech questionnaires for class use. 5 pages. 1937.

JOHN W. POWELL, B.A., D.D., S.T.D., Lecturer in English Literature
Two to four editorials weekly in the Sunday Minneapolis Journal, 1937-38.

HALDOR B. GISSLASON, B.A., LL.B., Assistant Professor and Head of the Department of Community Service

CORRESPONDENCE STUDY DEPARTMENT
ALGERNON H. SPEER, B.A., Head of the Correspondence Study Department
“Correspondence study.” Interpreter, Vol. 12, No. 4, p. 3. 1937.
“Club study programs.” Ibid., Vol. 12, No. 6, p. 3. 1938.

MUNICIPAL REFERENCE BUREAU
CLARENCE C. LUDWIG, C.P.A., M.A., Associate Professor of Political Science, Chief of the Municipal Reference Bureau, and Executive Secretary of the League of Minnesota Municipalities
“The University and municipal government in Minnesota.” Address delivered during the University Extension Course on Public Administration and Finance, July, 1937, University of Manitoba, pp. 131-35. 1937.
Editor.

THE UNIVERSITY LIBRARY
FRANK K. WALTER, M.A., M.L.S., University Librarian and Director of the Division of Library Instruction
“Library training.” Pages 357-58 in ibid.
“Traveling libraries.” Pages 18-20 in ibid., Vol. 27. 1938.

RAYMOND H. SHOFE, M.A., Instructor in Bibliography and Library Methods and Head of the Order and Bindery Department
L'NIVERSITY OF MINNESOTA
LIBRARY INSTRUCTION

LURA C. HUTCHINSON, B.A., Assistant Professor of Library Instruction
Directions for Cataloging. 1938. 23 multigraphed pages.

PERRIE JONES, B.A., Instructor in Hospital Librarianship
"Mental patients can read." Modern Hospital, Vol. 49, No. 3, pp. 72-75. 1937.
Editor, Hospital Book List, 1936-.

CARL VITZ, B.A., B.L.S., Instructor in Library Instruction

STUDENTS' HEALTH SERVICE

RUTH E. BOYNTON, M.S., M.D., Associate Professor of Preventive Medicine and Public Health and Director of the Students' Health Service
"Tuberculosis in medical and nursing hospital personnel" (with J. A. Myers, B. Trach, and H. S. Diehl). Archives of Internal Medicine, 11:2181-2205. June, 1938.

ROBERT G. HINCKLEY, M.D., Assistant Professor of Preventive Medicine and Public Health

CHAUNCEY A. MCKINLAY, M.D., Assistant Professor of Medicine

BERNARD A. WATSON, M.D., Assistant Professor of Preventive Medicine and Public Health and Physician, Students' Health Service
"Normal glucose tolerance tests." Journal of Laboratory and Clinical Medicine, 23:364. 1938.


**Donald W. Cowan, M.D., Instructor in Preventive Medicine and Public Health and Physician, Students' Health Service**


**B. Paul Davies, M.D., Instructor in Preventive Medicine and Public Health and Physician, Students' Health Service**


**Royal V. Sherman, M.D., Instructor in Preventive Medicine and Public Health and Physician, Students' Health Service**


**Lewis M. Daniel, M.S., M.D., Physician, Students' Health Service**


**Nora Winther, M.D., Physician, Students' Health Service**


**The Museum of Natural History**

**Thomas S. Roberts, M.D., Professor of Ornithology, Director of the Museum of Natural History**

*Logbook of Minnesota Bird Life*. Minneapolis: University of Minnesota Press. 1938. i-xii, 355 pages.


**Walter J. Breckenridge, M.A., Curator, Museum of Natural History**


"A correction in the range of Potamophis striatulus." *Copeia*, No. 4, p. 231. 1937.


JOHN E. ANDERSON, Ph.D., Professor of Psychology and Director of the Institute of Child Welfare


"Some are different." Radio program No. 9 on "Youth in a Modern Community." Washington, D.C.: National Congress of Parents and Teachers. December 8, 1937. 8 mimeographed pages.

Editor, Institute of Child Welfare Monograph Series:
Jean Marquis Deutsche, The Development of Children's Concepts of Causal Relations.
Edith A. Davis, Development of Linguistic Skill in Twins, Singletons with Siblings and Only Children from Five to Ten Years.

Editor, Monographs of the Society for Research in Child Development:
F. N. Freeman and Charles D. Flory, Growth in Intellectual Ability As Measured by Repeated Tests.
Herman G. Richey, The Relation of Accelerated, Normal and Retarded Puberty to the Height and Weight of School Children.
W. Prever (translation), Embryonic Motility and Sensitivity.
Dorothy Van Alstyne and Emily Osborne, Rhythmic Responses of Negro and White Children Two to Six.
R. R. Willoughby, Sexuality in the Second Decade.

JOSEPHINE C. FOSTER, Ph.D., Professor, Institute of Child Welfare, and Principal of the Nursery School and Experimental Kindergarten

Reviews of

FLORENCE L. GOODENOUGH, PH.D., Professor, Institute of Child Welfare


Reviews of

ESTHER McGINNIS, Ph.D., Professor of Parental Education


"It's still up to the family." Ibid., Vol. 23, No. 9. May, 1938.


MARION L. FAEGRE, B.A., Assistant Professor of Parent Education


"What will people think?" Ibid., Vol. 31, No. 12, p. 17. August, 1937.


"Feeding a hobby horse." Ibid., Vol. 32, No. 4, pp. 20, 35. December, 1937.


"What has got into Tommy?" Ibid., Vol. 32, No. 8, p. 16. April, 1938.

"Can't I go to camp with Celia?" Ibid., Vol. 32, No. 9, p. 18. May, 1938.


"Growing with your child." Weekly educational feature released to 100 dailies and weeklies in Minnesota. 1937-38.


Mimeographed materials for "Family life as seen in fiction" project, 1937-38.

Hazel M. Cushirg, Ph.D., Lecturer, Institute of Child Welfare


Edith A. Davis, Ph.D., Lecturer in Parent Education


"Development in the use of proper names." Child Development, 8:270-72. 1937.

Pearl T. Cummings, B.S., Instructor and Extension Worker, Institute of Child Welfare


Mary E. Krister, M.A., Instructor, Institute of Child Welfare


M. E. Miriam Murray, M.A., Teaching Assistant, Institute of Child Welfare

Leslie Zieve, B.A., Teaching Assistant, Institute of Child Welfare

David Brody, M.A., Research Assistant, Institute of Child Welfare

Military Science and Tactics
Adam E. Potts, B.S., Lieutenant Colonel, Coast Artillery Corps, United States Army, Professor of Military Science and Tactics

Physical Education and Athletics
Frank G. McCormick, B.A., LL.B., Professor of Physical Education and Director of Athletics
The Plan of Action of the Minnesota American Legion To Promote Community Recreation (with A. B. Caldwell, C. L. Nordly, and others). 1937. 8 mimeographed pages.

Bernard W. Bierman, B.A., Professor of Physical Education and Football Coach

Ansel Keys, Ph.D., Associate Professor of Physical Education and Physiology
PUBLICATIONS OF THE FACULTIES


CARL L. NORDLY, Ph.D., Assistant Professor of Physical Education


“Report of the Committee on Findings” (with H. Benjamin, Helen Dingman, and others.) Pages 42-62 in *ibid.*

“Report of University of Minnesota Committee on Training for Recreation Leadership” (with C. G. Wrenn, Ruth Boynton, and others). Pages 76-83 in *ibid.*


Recreation—Principles of Organization and Suggestions for Programs. 1937. 8 dittoed pages.

The Plan of Action of the Minnesota American Legion To Promote Community Recreation (with A. B. Caldwell, F. G. McCormick, and others). 1937. 8 mimeographed pages.

Recreation services of the American Legion. 1938. 1 mimeographed page.

Physical education programs in Glencoe and Litchfield in 1937-38. 187 dittoed pages.

RALPH A. PIPER, M.A., Assistant Professor of Physical Education and Gymnastic Coach

*Physical Education Notebook*. 1937. 122 pages.


Trends in Junior High Schools with Reference to the Department of Physical Education. 1937. 5 dittoed pages.

Trends in Required Physical Education. 1937. 4 dittoed pages.

Administrative Problems in Connection with the Professional Preparation of Physical Education Teachers (with D. C. Bartelma). 1937. 19 dittoed pages.

Correspondence Study course in Organization and Administration of Physical Education. 1938. 67 mimeographed pages.

Outlines of professional lecture and activity courses, 1937-38. 17 mimeographed pages.

PHIL BRAIN, Instructor in Physical Education and Tennis Coach


DAVID C. BARTELMA, M.A., Instructor in Physical Education and Wrestling Coach


PHYSICAL EDUCATION FOR WOMEN

J. ANNA NORRIS, M.D., Professor and Director of Physical Education for Women

"A survey to determine the status of graduate work in physical education" (with Dorothy C. Sweet). Research Quarterly, Vol. 8, No. 4, pp. 3-10. December, 1937.

GERTRUDE M. BAKER, M.A., Associate Professor of Physical Education for Women


FLORENCE M. WARNOCK, M.A., Assistant Professor of Physical Education for Women


GENEVIEVE L. BRAUN, M.S., Instructor in Physical Education


GRACE CHRISTENSEN, B.S., Instructor in Physical Education for Women

CENTER FOR CONTINUATION STUDY

JULIUS M. NOLTE, B.A., LL.B., Professor and Director of the Center for Continuation Study


UNIVERSITY TESTING BUREAU

EDMUND G. WILLIAMSON, Ph.D., Assistant Professor of Psychology and Director of the University Testing Bureau


Reviews of

Survey of Scholastic Aptitude of 1937 College Freshmen. Minneapolis: University of Minnesota Mimeograph Department. 1938. 9 pages.

CORWIN B. FISS, B.B.A., Psychometric Assistant, University Testing Bureau


NEWS SERVICE

THOMAS E. STEWARD, B.A., Assistant Professor of Journalism and Director of News Service

<table>
<thead>
<tr>
<th>Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aamodt, Torfine L.</td>
<td>64</td>
</tr>
<tr>
<td>Abbe, Ernst C.</td>
<td>3</td>
</tr>
<tr>
<td>Abramson, Milton</td>
<td>85</td>
</tr>
<tr>
<td>Adams, John M.</td>
<td>91</td>
</tr>
<tr>
<td>Adson, Alfred W.</td>
<td>137</td>
</tr>
<tr>
<td>Ager, Courtland L.</td>
<td>38</td>
</tr>
<tr>
<td>Alberts, Max W.</td>
<td>103</td>
</tr>
<tr>
<td>Alderman, William H.</td>
<td>67</td>
</tr>
<tr>
<td>Algren, Axel B.</td>
<td>33</td>
</tr>
<tr>
<td>Allen, Edgar V.</td>
<td>124</td>
</tr>
<tr>
<td>Allen, James S.</td>
<td>19</td>
</tr>
<tr>
<td>Allen, Nat N.</td>
<td>62</td>
</tr>
<tr>
<td>Allison, Clyde C.</td>
<td>71</td>
</tr>
<tr>
<td>Almin, Rugnar</td>
<td>111</td>
</tr>
<tr>
<td>Altshul, Eugen</td>
<td>144</td>
</tr>
<tr>
<td>Alvarez, Walter C.</td>
<td>123</td>
</tr>
<tr>
<td>Alway, Frederick J.</td>
<td>73</td>
</tr>
<tr>
<td>Amberg, Samuel</td>
<td>133</td>
</tr>
<tr>
<td>Andersen, Paul</td>
<td>32</td>
</tr>
<tr>
<td>Anderson, Dean C.</td>
<td>58</td>
</tr>
<tr>
<td>Anderson, Gaylord W.</td>
<td>96</td>
</tr>
<tr>
<td>Anderson, James K.</td>
<td>102</td>
</tr>
<tr>
<td>Anderson, John A.</td>
<td>56</td>
</tr>
<tr>
<td>Anderson, John E.</td>
<td>156</td>
</tr>
<tr>
<td>Anderson, Karl W.</td>
<td>81</td>
</tr>
<tr>
<td>Anderson, Parker O.</td>
<td>50</td>
</tr>
<tr>
<td>Anderson, Philip A.</td>
<td>60</td>
</tr>
<tr>
<td>Anderson, William</td>
<td>20</td>
</tr>
<tr>
<td>Andrensen, Karl d'A.</td>
<td>84</td>
</tr>
<tr>
<td>Angelo, Ernest</td>
<td>68</td>
</tr>
<tr>
<td>Appel, Francis S.</td>
<td>149</td>
</tr>
<tr>
<td>Archer, Clifford P.</td>
<td>115</td>
</tr>
<tr>
<td>Arjona, Doris K.</td>
<td>24</td>
</tr>
<tr>
<td>Armstrong, Wallace D.</td>
<td>108</td>
</tr>
<tr>
<td>Arnal, Leon</td>
<td>31</td>
</tr>
<tr>
<td>Arnold, Richard T.</td>
<td>39</td>
</tr>
<tr>
<td>Arnow, L. Earle</td>
<td>94</td>
</tr>
<tr>
<td>Arnstein, Margaret G.</td>
<td>98</td>
</tr>
<tr>
<td>Arny, Albert C.</td>
<td>58</td>
</tr>
<tr>
<td>Aronovsky, Samuel I.</td>
<td>43</td>
</tr>
<tr>
<td>Atwater, Pierce</td>
<td>27</td>
</tr>
<tr>
<td>Austin, Franklin L.</td>
<td>39</td>
</tr>
<tr>
<td>Austin, Louie T.</td>
<td>140</td>
</tr>
<tr>
<td>Avery, Curtis E.</td>
<td>152</td>
</tr>
<tr>
<td>Bachman, Gustav</td>
<td>110</td>
</tr>
<tr>
<td>Bade, Edward S.</td>
<td>76</td>
</tr>
<tr>
<td>Bailey, Alan J.</td>
<td>66</td>
</tr>
<tr>
<td>Bailey, Clyde H.</td>
<td>41</td>
</tr>
<tr>
<td>Bair, Hugh L.</td>
<td>131</td>
</tr>
<tr>
<td>Baker, Abe B.</td>
<td>83</td>
</tr>
<tr>
<td>Baker, Gertrude M.</td>
<td>160</td>
</tr>
<tr>
<td>Baker, Kenneth H.</td>
<td>23</td>
</tr>
<tr>
<td>Baker, Richard F.</td>
<td>19</td>
</tr>
<tr>
<td>Bables, Edward J.</td>
<td>122</td>
</tr>
<tr>
<td>Balfour, Donald C.</td>
<td>120</td>
</tr>
<tr>
<td>Bannick, Edwin G.</td>
<td>124</td>
</tr>
<tr>
<td>Bargen, Jacob A.</td>
<td>124</td>
</tr>
<tr>
<td>Barnes, Arlhe R.</td>
<td>123</td>
</tr>
<tr>
<td>Barnes, Eleanor</td>
<td>42</td>
</tr>
<tr>
<td>Barnes, Richard H.</td>
<td>95</td>
</tr>
<tr>
<td>Barnhart, Thomas F.</td>
<td>14</td>
</tr>
<tr>
<td>Barron, Moses</td>
<td>79</td>
</tr>
<tr>
<td>Bartelma, David C.</td>
<td>160</td>
</tr>
<tr>
<td>Baxter, Brent N.</td>
<td>23</td>
</tr>
<tr>
<td>Beach, Joseph W.</td>
<td>6</td>
</tr>
<tr>
<td>Beber, A. Joseph</td>
<td>4</td>
</tr>
<tr>
<td>Beclund, Luther N.</td>
<td>7</td>
</tr>
<tr>
<td>Bell, Elexious T.</td>
<td>87</td>
</tr>
<tr>
<td>Bellis, Carroll J.</td>
<td>105</td>
</tr>
<tr>
<td>Benedict, William L.</td>
<td>131</td>
</tr>
<tr>
<td>Benton, Webster W.</td>
<td>43</td>
</tr>
<tr>
<td>Bergh, George S.</td>
<td>104</td>
</tr>
<tr>
<td>Bergren, Leslie</td>
<td>118</td>
</tr>
<tr>
<td>Berkson, Joseph</td>
<td>122</td>
</tr>
<tr>
<td>Berkwitz, Nathan J.</td>
<td>83</td>
</tr>
<tr>
<td>Bernhart, Fnn W.</td>
<td>96</td>
</tr>
<tr>
<td>Bierman, Bernard W.</td>
<td>158</td>
</tr>
<tr>
<td>Bieter, Raymond N.</td>
<td>92</td>
</tr>
<tr>
<td>Billings, William A.</td>
<td>50</td>
</tr>
<tr>
<td>Binger, Melvin W.</td>
<td>127</td>
</tr>
<tr>
<td>Bird, Charles</td>
<td>22</td>
</tr>
<tr>
<td>Bishop, Lucille M.</td>
<td>75</td>
</tr>
<tr>
<td>Blair, Eva L.</td>
<td>50</td>
</tr>
<tr>
<td>Blakey, Roy G.</td>
<td>144</td>
</tr>
<tr>
<td>Biegen, Theodore C.</td>
<td>11</td>
</tr>
<tr>
<td>Blount, Raymond F.</td>
<td>78</td>
</tr>
<tr>
<td>Boddie, Francis M.</td>
<td>147</td>
</tr>
<tr>
<td>Boehmle, Charles T.</td>
<td>34</td>
</tr>
<tr>
<td>Bocher, John Jr., Jr.</td>
<td>84</td>
</tr>
<tr>
<td>Boies, Lawrence R.</td>
<td>86</td>
</tr>
<tr>
<td>Bollman, Jesse L.</td>
<td>134</td>
</tr>
<tr>
<td>Bond, Guy L.</td>
<td>115</td>
</tr>
<tr>
<td>Booth, Marguerite</td>
<td>91</td>
</tr>
<tr>
<td>Boothby, Walter M.</td>
<td>134</td>
</tr>
<tr>
<td>Borak, Arthur M.</td>
<td>146</td>
</tr>
<tr>
<td>Borgeson, Carl</td>
<td>59</td>
</tr>
<tr>
<td>Boss, Andrew</td>
<td>41</td>
</tr>
<tr>
<td>Boss, William</td>
<td>47</td>
</tr>
<tr>
<td>Bovee, Dorothy</td>
<td>118</td>
</tr>
<tr>
<td>Bowers, Warner F.</td>
<td>104</td>
</tr>
<tr>
<td>Bowing, Harry H.</td>
<td>135</td>
</tr>
<tr>
<td>Boyd, Willard L.</td>
<td>74</td>
</tr>
<tr>
<td>Boyden, Edward A.</td>
<td>77</td>
</tr>
<tr>
<td>Boynton, Ruth E.</td>
<td>154</td>
</tr>
<tr>
<td>Braasch, William F.</td>
<td>137</td>
</tr>
<tr>
<td>Brady, Daniel E.</td>
<td>60</td>
</tr>
<tr>
<td>Brain, Phil</td>
<td>160</td>
</tr>
<tr>
<td>Bratrud, Arthur F.</td>
<td>191</td>
</tr>
<tr>
<td>Name</td>
<td>Page</td>
</tr>
<tr>
<td>------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Bratton, A. Calvin</td>
<td>95</td>
</tr>
<tr>
<td>Braun, Genevieve L.</td>
<td>160</td>
</tr>
<tr>
<td>Breckenridge, Walter J.</td>
<td>155</td>
</tr>
<tr>
<td>Brekel, Peter J.</td>
<td>107</td>
</tr>
<tr>
<td>Brenner, Joel L.</td>
<td>16</td>
</tr>
<tr>
<td>Brerley, Wilfred G.</td>
<td>67</td>
</tr>
<tr>
<td>Briggs, David R.</td>
<td>42</td>
</tr>
<tr>
<td>Briggs, Harold E.</td>
<td>7</td>
</tr>
<tr>
<td>Brightman, George F.</td>
<td>10</td>
</tr>
<tr>
<td>Brink, Raymond W.</td>
<td>16</td>
</tr>
<tr>
<td>Broder, Albert C.</td>
<td>132</td>
</tr>
<tr>
<td>Brody, David</td>
<td>158</td>
</tr>
<tr>
<td>Brooke, William E.</td>
<td>33</td>
</tr>
<tr>
<td>Brookins, Wallace W.</td>
<td>53</td>
</tr>
<tr>
<td>Brown, Alex E.</td>
<td>127</td>
</tr>
<tr>
<td>Brown, Clara M.</td>
<td>116</td>
</tr>
<tr>
<td>Brown, Fred</td>
<td>115</td>
</tr>
<tr>
<td>Brown, Huntington</td>
<td>6</td>
</tr>
<tr>
<td>Brown, James I.</td>
<td>73</td>
</tr>
<tr>
<td>Brown, Philip W.</td>
<td>127</td>
</tr>
<tr>
<td>Brown, Ralph H.</td>
<td>9</td>
</tr>
<tr>
<td>Brown, Randolph M.</td>
<td>66</td>
</tr>
<tr>
<td>Brown, William R.</td>
<td>5</td>
</tr>
<tr>
<td>Bruellner, Leo J.</td>
<td>113</td>
</tr>
<tr>
<td>Bryant, Frank L.</td>
<td>86</td>
</tr>
<tr>
<td>Bryant, John M.</td>
<td>32</td>
</tr>
<tr>
<td>Bryngelson, Bryng</td>
<td>28</td>
</tr>
<tr>
<td>Butcher, J. William</td>
<td>17</td>
</tr>
<tr>
<td>Bule, Louis A.</td>
<td>137</td>
</tr>
<tr>
<td>Buirge, Raymond E.</td>
<td>105</td>
</tr>
<tr>
<td>Burch, Edward P.</td>
<td>87</td>
</tr>
<tr>
<td>Burch, Frank E.</td>
<td>86</td>
</tr>
<tr>
<td>Burns, George W.</td>
<td>4</td>
</tr>
<tr>
<td>Burr, George O.</td>
<td>3</td>
</tr>
<tr>
<td>Burt, Alfred L.</td>
<td>12</td>
</tr>
<tr>
<td>Burton, S. Chatwood</td>
<td>31</td>
</tr>
<tr>
<td>Butler, John</td>
<td>80</td>
</tr>
<tr>
<td>Butters, Frederic K.</td>
<td>3</td>
</tr>
<tr>
<td>Cabot, Hugh</td>
<td>138</td>
</tr>
<tr>
<td>Camp, John D.</td>
<td>136</td>
</tr>
<tr>
<td>Canoyer, Helen G.</td>
<td>147</td>
</tr>
<tr>
<td>Carey, James B.</td>
<td>81</td>
</tr>
<tr>
<td>Carlson, Elizabeth</td>
<td>16</td>
</tr>
<tr>
<td>Carlson, Herbert A.</td>
<td>101</td>
</tr>
<tr>
<td>Carlson, Russell M.</td>
<td>33</td>
</tr>
<tr>
<td>Carlson, William S.</td>
<td>117</td>
</tr>
<tr>
<td>Carr, Muriel B.</td>
<td>7</td>
</tr>
<tr>
<td>Casey, Ralph D.</td>
<td>14</td>
</tr>
<tr>
<td>Castell, Alburey</td>
<td>16</td>
</tr>
<tr>
<td>Castendyck, Elsa</td>
<td>27</td>
</tr>
<tr>
<td>Caveney, Loyst C.</td>
<td>33</td>
</tr>
<tr>
<td>Cavett, Jesse W.</td>
<td>95</td>
</tr>
<tr>
<td>Challman, S. Alan</td>
<td>91</td>
</tr>
<tr>
<td>Chapin, F. Stuart</td>
<td>25</td>
</tr>
<tr>
<td>Charnley, Mitchell V.</td>
<td>15</td>
</tr>
<tr>
<td>Chatterton, Carl C.</td>
<td>100</td>
</tr>
<tr>
<td>Chesley, Albert J.</td>
<td>96</td>
</tr>
<tr>
<td>Child, Alice M.</td>
<td>66</td>
</tr>
<tr>
<td>Chilton, St. John P.</td>
<td>71</td>
</tr>
<tr>
<td>Christensen, Asher N.</td>
<td>21</td>
</tr>
<tr>
<td>Christensen, Clyde M.</td>
<td>71</td>
</tr>
<tr>
<td>Christensen, Grace</td>
<td>160</td>
</tr>
<tr>
<td>Christensen, Jonas J.</td>
<td>70</td>
</tr>
<tr>
<td>Christenson, Ruby</td>
<td>53</td>
</tr>
<tr>
<td>Christopherson, Clarence H.</td>
<td>49</td>
</tr>
<tr>
<td>Chute, A. Hamilton</td>
<td>146</td>
</tr>
<tr>
<td>Clark, John W.</td>
<td>7</td>
</tr>
<tr>
<td>Clawson, Benjamin J.</td>
<td>87</td>
</tr>
<tr>
<td>Cland, Spencer B.</td>
<td>50</td>
</tr>
<tr>
<td>Cleverenger, Louise M.</td>
<td>27</td>
</tr>
<tr>
<td>Coffey, Walter C.</td>
<td>40</td>
</tr>
<tr>
<td>Cohen, Sumner S.</td>
<td>84</td>
</tr>
<tr>
<td>Cole, Wallace H.</td>
<td>99</td>
</tr>
<tr>
<td>Collins, Dean A.</td>
<td>95</td>
</tr>
<tr>
<td>Combs, Willes B.</td>
<td>61</td>
</tr>
<tr>
<td>Comfort, Mandred W.</td>
<td>127</td>
</tr>
<tr>
<td>Comstock, Ralph E.</td>
<td>60</td>
</tr>
<tr>
<td>Conger, George P.</td>
<td>16</td>
</tr>
<tr>
<td>Cook, Edward N.</td>
<td>143</td>
</tr>
<tr>
<td>Cook, Malcolm M.</td>
<td>106</td>
</tr>
<tr>
<td>Cook, Stuart W.</td>
<td>23</td>
</tr>
<tr>
<td>Cooke, Cora E.</td>
<td>51</td>
</tr>
<tr>
<td>Cottrell, Lillian</td>
<td>84</td>
</tr>
<tr>
<td>Coulter, Samuel T.</td>
<td>62</td>
</tr>
<tr>
<td>Counsellor, Virgil S.</td>
<td>140</td>
</tr>
<tr>
<td>Cowan, Donald W.</td>
<td>155</td>
</tr>
<tr>
<td>Cox, Rex W.</td>
<td>45</td>
</tr>
<tr>
<td>Cragg, Richard W.</td>
<td>133</td>
</tr>
<tr>
<td>Crago, Felix H.</td>
<td>84</td>
</tr>
<tr>
<td>Craig, John J.</td>
<td>40</td>
</tr>
<tr>
<td>Craig, Winchell McK.</td>
<td>141</td>
</tr>
<tr>
<td>Craig, Ralph T.</td>
<td>117</td>
</tr>
<tr>
<td>Crand, Robert V.</td>
<td>5</td>
</tr>
<tr>
<td>Cranmer, Richard R.</td>
<td>102</td>
</tr>
<tr>
<td>Creevy, C. Donald</td>
<td>100</td>
</tr>
<tr>
<td>Crim, Ralph F.</td>
<td>51</td>
</tr>
<tr>
<td>Critchfield, Lyman R.</td>
<td>91</td>
</tr>
<tr>
<td>Crossen, George</td>
<td>111</td>
</tr>
<tr>
<td>Cummings, Pearl T.</td>
<td>157</td>
</tr>
<tr>
<td>Currence, Troy M.</td>
<td>68</td>
</tr>
<tr>
<td>Curtis, James E.</td>
<td>118</td>
</tr>
<tr>
<td>Cushing, Hazel M.</td>
<td>157</td>
</tr>
<tr>
<td>Cutright, Prudence</td>
<td>115</td>
</tr>
<tr>
<td>Cutts, Rollin E.</td>
<td>91</td>
</tr>
<tr>
<td>Dahl, A. Orville</td>
<td>4</td>
</tr>
<tr>
<td>Dalaker, Hans H.</td>
<td>34</td>
</tr>
<tr>
<td>Daniel, Lewis M.</td>
<td>155</td>
</tr>
<tr>
<td>Dankers, William H.</td>
<td>73</td>
</tr>
<tr>
<td>Danoct, Joseph H.</td>
<td>118</td>
</tr>
<tr>
<td>Darley, John G.</td>
<td>149</td>
</tr>
<tr>
<td>Darling, Henry M.</td>
<td>72</td>
</tr>
<tr>
<td>Davies, B. Paul</td>
<td>155</td>
</tr>
<tr>
<td>Davis, Darrell H.</td>
<td>9</td>
</tr>
<tr>
<td>Name</td>
<td>Page</td>
</tr>
<tr>
<td>-----------------------</td>
<td>------</td>
</tr>
<tr>
<td>Davis, Edith A.</td>
<td>157</td>
</tr>
<tr>
<td>Dawson, Ralph W.</td>
<td>29</td>
</tr>
<tr>
<td>del Plaine, Frances K.</td>
<td>7</td>
</tr>
<tr>
<td>Denning, Donald G.</td>
<td>65</td>
</tr>
<tr>
<td>Dennis, Clarence</td>
<td>105</td>
</tr>
<tr>
<td>Densford, Katharine J.</td>
<td>105</td>
</tr>
<tr>
<td>Dent, J. Grant</td>
<td>49</td>
</tr>
<tr>
<td>Desjardins, Arthur U.</td>
<td>136</td>
</tr>
<tr>
<td>Deutsch, Harold C.</td>
<td>13</td>
</tr>
<tr>
<td>Dick, Samuel N.</td>
<td>10</td>
</tr>
<tr>
<td>Diehl, Harold S.</td>
<td>76</td>
</tr>
<tr>
<td>Dietz, Gertrude R.</td>
<td>23</td>
</tr>
<tr>
<td>Dixon, Claude F.</td>
<td>141</td>
</tr>
<tr>
<td>Doeringfeld, Harry A.</td>
<td>34</td>
</tr>
<tr>
<td>Donaldson, Ernestine C.</td>
<td>146</td>
</tr>
<tr>
<td>Donelson, Eva G.</td>
<td>67</td>
</tr>
<tr>
<td>Donohue, Philip F.</td>
<td>103</td>
</tr>
<tr>
<td>Dosdall, Louise T.</td>
<td>71</td>
</tr>
<tr>
<td>Douglass, Harl R.</td>
<td>113</td>
</tr>
<tr>
<td>Dow, Charles H.</td>
<td>152</td>
</tr>
<tr>
<td>Dowdell, Ralph L.</td>
<td>40</td>
</tr>
<tr>
<td>Dowell, Austin A.</td>
<td>44</td>
</tr>
<tr>
<td>Downey, Hal</td>
<td>27</td>
</tr>
<tr>
<td>Downie, Andrew R.</td>
<td>72</td>
</tr>
<tr>
<td>Drake, Richard M.</td>
<td>118</td>
</tr>
<tr>
<td>Dry, Thomas J.</td>
<td>129</td>
</tr>
<tr>
<td>Dunham, Raymond S.</td>
<td>55</td>
</tr>
<tr>
<td>Dunn, George R.</td>
<td>101</td>
</tr>
<tr>
<td>Dvoracek, Daniel C.</td>
<td>53</td>
</tr>
<tr>
<td>Dwan, Paul</td>
<td>91</td>
</tr>
<tr>
<td>Dworsky, Bess R.</td>
<td>8</td>
</tr>
<tr>
<td>Eddy, Samuel</td>
<td>29</td>
</tr>
<tr>
<td>Edson, Allen W.</td>
<td>57</td>
</tr>
<tr>
<td>Edwards, Marcia</td>
<td>115</td>
</tr>
<tr>
<td>Edwards, Oliver C.</td>
<td>152</td>
</tr>
<tr>
<td>Eggert, Robert J.</td>
<td>46</td>
</tr>
<tr>
<td>Eggertson, Claude</td>
<td>118</td>
</tr>
<tr>
<td>Egger, Willis A.</td>
<td>5</td>
</tr>
<tr>
<td>Egilsrud, Johan S.</td>
<td>7</td>
</tr>
<tr>
<td>Ehrenberg, Claude J.</td>
<td>85</td>
</tr>
<tr>
<td>Eid, Carl J.</td>
<td>71</td>
</tr>
<tr>
<td>Elliott, Richard M.</td>
<td>21</td>
</tr>
<tr>
<td>Embree, Royal B., Jr.</td>
<td>118</td>
</tr>
<tr>
<td>Emmett, John L.</td>
<td>143</td>
</tr>
<tr>
<td>Emmons, William H.</td>
<td>10</td>
</tr>
<tr>
<td>Engene, Selmer A.</td>
<td>45</td>
</tr>
<tr>
<td>Erikson, J. Arion</td>
<td>62</td>
</tr>
<tr>
<td>Erickson, Theodore A.</td>
<td>49</td>
</tr>
<tr>
<td>Erikson, Henry A.</td>
<td>17</td>
</tr>
<tr>
<td>Ershler, Irving</td>
<td>84</td>
</tr>
<tr>
<td>Essex, Hirn E.</td>
<td>134</td>
</tr>
<tr>
<td>Eurich, Alvin C.</td>
<td>111</td>
</tr>
<tr>
<td>Eusterman, George B.</td>
<td>123</td>
</tr>
<tr>
<td>Evans, Edward T.</td>
<td>101</td>
</tr>
<tr>
<td>Evans, John W.</td>
<td>2</td>
</tr>
<tr>
<td>Everett, Millard S.</td>
<td>16</td>
</tr>
<tr>
<td>Faege, Marion L.</td>
<td>157</td>
</tr>
<tr>
<td>Fahl, George E.</td>
<td>80</td>
</tr>
<tr>
<td>Fansler, Walter A.</td>
<td>100</td>
</tr>
<tr>
<td>Faulkner, Ray</td>
<td>150</td>
</tr>
<tr>
<td>Feldman, William H.</td>
<td>132</td>
</tr>
<tr>
<td>Fenlon, Anne F.</td>
<td>26</td>
</tr>
<tr>
<td>Fenske, Theodore H.</td>
<td>56</td>
</tr>
<tr>
<td>Fenstermacher, Renel</td>
<td>74</td>
</tr>
<tr>
<td>Ferrin, Evan F.</td>
<td>59</td>
</tr>
<tr>
<td>Field, Albert M.</td>
<td>112</td>
</tr>
<tr>
<td>Field, Oliver P.</td>
<td>20</td>
</tr>
<tr>
<td>Fink, Walter H.</td>
<td>87</td>
</tr>
<tr>
<td>Fischer, Earl B.</td>
<td>110</td>
</tr>
<tr>
<td>Fish, Belle O.</td>
<td>51</td>
</tr>
<tr>
<td>Fisk, Frank W.</td>
<td>65</td>
</tr>
<tr>
<td>Fiss, Corwin B.</td>
<td>161</td>
</tr>
<tr>
<td>Fitch, Clifford P.</td>
<td>74</td>
</tr>
<tr>
<td>Fitch, James B.</td>
<td>60</td>
</tr>
<tr>
<td>Fitch, John</td>
<td>7</td>
</tr>
<tr>
<td>Flagstad, Carl O.</td>
<td>108</td>
</tr>
<tr>
<td>Flanagan, John T.</td>
<td>8</td>
</tr>
<tr>
<td>Flock, Eunice V.</td>
<td>135</td>
</tr>
<tr>
<td>Floyd, Oliver R.</td>
<td>118</td>
</tr>
<tr>
<td>Foley, Frederic E. B.</td>
<td>100</td>
</tr>
<tr>
<td>Ford, Edwin H.</td>
<td>15</td>
</tr>
<tr>
<td>Ford, Guy Stanton</td>
<td>119</td>
</tr>
<tr>
<td>Forsyth, Arthur C.</td>
<td>40</td>
</tr>
<tr>
<td>Forsyth, Howard</td>
<td>27</td>
</tr>
<tr>
<td>Foster, Josephine C.</td>
<td>156</td>
</tr>
<tr>
<td>Fraser, Everett</td>
<td>75</td>
</tr>
<tr>
<td>Freundlich, Herbert M. F.</td>
<td>120</td>
</tr>
<tr>
<td>Fricke, Robert E.</td>
<td>136</td>
</tr>
<tr>
<td>Friedell, Aaron</td>
<td>91</td>
</tr>
<tr>
<td>Frings, Hubert W.</td>
<td>29</td>
</tr>
<tr>
<td>Fulton, Albert M.</td>
<td>153</td>
</tr>
<tr>
<td>Gardiner, Elizabeth G.</td>
<td>26</td>
</tr>
<tr>
<td>Gardner, Walter P.</td>
<td>83</td>
</tr>
<tr>
<td>Garver, Frederie B.</td>
<td>144</td>
</tr>
<tr>
<td>Garver, Walter B.</td>
<td>47</td>
</tr>
<tr>
<td>George, J. Spencer</td>
<td>62</td>
</tr>
<tr>
<td>Gerdes, Maude M.</td>
<td>85</td>
</tr>
<tr>
<td>Ghormley, Ralph K.</td>
<td>138</td>
</tr>
<tr>
<td>Gibson, Douglas L.</td>
<td>62</td>
</tr>
<tr>
<td>Gilkinson, Howard</td>
<td>28</td>
</tr>
<tr>
<td>Gislason, Haldor B.</td>
<td>153</td>
</tr>
<tr>
<td>Gisvold, Ole</td>
<td>110</td>
</tr>
<tr>
<td>Glockler, George</td>
<td>39</td>
</tr>
<tr>
<td>Goodenough, Florence L.</td>
<td>156</td>
</tr>
<tr>
<td>Gortner, Ross A.</td>
<td>41</td>
</tr>
<tr>
<td>Gotschall, Mary J.</td>
<td>30</td>
</tr>
<tr>
<td>Grandy, Adah G.</td>
<td>8</td>
</tr>
<tr>
<td>Granovsky, Alexander A.</td>
<td>63</td>
</tr>
<tr>
<td>Graves, Richard A.</td>
<td>147</td>
</tr>
<tr>
<td>Gray, Howard K.</td>
<td>141</td>
</tr>
<tr>
<td>Gray, Royal C.</td>
<td>81</td>
</tr>
<tr>
<td>Green, Beryl S.</td>
<td>79</td>
</tr>
<tr>
<td>Green, Robert G.</td>
<td>78</td>
</tr>
<tr>
<td>Name</td>
<td>Page</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Greene, Alfred B.</td>
<td>107</td>
</tr>
<tr>
<td>Grismer, Raymond L.</td>
<td>24</td>
</tr>
<tr>
<td>Grout, Frank F.</td>
<td>10</td>
</tr>
<tr>
<td>Grove, Cornelius S., Jr.</td>
<td>37</td>
</tr>
<tr>
<td>Gruner, John W.</td>
<td>10</td>
</tr>
<tr>
<td>Gullickson, Thor W.</td>
<td>62</td>
</tr>
<tr>
<td>Guss, Lester S.</td>
<td>36</td>
</tr>
<tr>
<td>Habein, Harold C.</td>
<td>127</td>
</tr>
<tr>
<td>Hack, May C.</td>
<td>23</td>
</tr>
<tr>
<td>Haga, John W.</td>
<td>10</td>
</tr>
<tr>
<td>Gullickson, Thor W.</td>
<td>62</td>
</tr>
<tr>
<td>Hammes, Ernest M.</td>
<td>80</td>
</tr>
<tr>
<td>Hansen, Alvin H.</td>
<td>144</td>
</tr>
<tr>
<td>Hansen, Arlid E.</td>
<td>89</td>
</tr>
<tr>
<td>Hansen, Therold S.</td>
<td>66</td>
</tr>
<tr>
<td>Hanson, Edwin A.</td>
<td>52</td>
</tr>
<tr>
<td>Hanson, William A.</td>
<td>103</td>
</tr>
<tr>
<td>Haralson, Fred E.</td>
<td>56</td>
</tr>
<tr>
<td>Harden, Leigh H.</td>
<td>112</td>
</tr>
<tr>
<td>Harmon, Elmer E.</td>
<td>112</td>
</tr>
<tr>
<td>Harrar, George J.</td>
<td>71</td>
</tr>
<tr>
<td>Harrington, Stuart W.</td>
<td>138</td>
</tr>
<tr>
<td>Harris, Harold L.</td>
<td>73</td>
</tr>
<tr>
<td>Harris, Robert E.</td>
<td>24</td>
</tr>
<tr>
<td>Hart, William L.</td>
<td>15</td>
</tr>
<tr>
<td>Halfborne, Richard</td>
<td>9</td>
</tr>
<tr>
<td>Harvey, Alfred L.</td>
<td>60</td>
</tr>
<tr>
<td>Harvey, Rodney B.</td>
<td>70</td>
</tr>
<tr>
<td>Haselmeyer, Louis A.</td>
<td>8</td>
</tr>
<tr>
<td>Hatfield, Donald M.</td>
<td>64</td>
</tr>
<tr>
<td>Havens, Fred Z.</td>
<td>131</td>
</tr>
<tr>
<td>Hawthorne, Manning</td>
<td>8</td>
</tr>
<tr>
<td>Haxby, Robert O.</td>
<td>19</td>
</tr>
<tr>
<td>Haydak, Mykola H.</td>
<td>64</td>
</tr>
<tr>
<td>Hayes, Herbert K.</td>
<td>58</td>
</tr>
<tr>
<td>Hayes, James M.</td>
<td>100</td>
</tr>
<tr>
<td>Heathman, Lucia S.</td>
<td>98</td>
</tr>
<tr>
<td>Heaton, Herbert</td>
<td>12</td>
</tr>
<tr>
<td>Heck, Frank J.</td>
<td>127</td>
</tr>
<tr>
<td>Heine, Albert C.</td>
<td>57</td>
</tr>
<tr>
<td>Heisig, Gladstone B.</td>
<td>38</td>
</tr>
<tr>
<td>Heller, John L.</td>
<td>6</td>
</tr>
<tr>
<td>Helmsbo, Henry F.</td>
<td>133</td>
</tr>
<tr>
<td>Hemingway, Allan</td>
<td>94</td>
</tr>
<tr>
<td>Hempstead, Bert E.</td>
<td>131</td>
</tr>
<tr>
<td>Hench, Philip S.</td>
<td>125</td>
</tr>
<tr>
<td>Henderson, Melvin S.</td>
<td>138</td>
</tr>
<tr>
<td>Hendrickson, Merril J.</td>
<td>5</td>
</tr>
<tr>
<td>Hennec, Arthur T.</td>
<td>79</td>
</tr>
<tr>
<td>Henry, Myron O.</td>
<td>103</td>
</tr>
<tr>
<td>Henschel, Austin F.</td>
<td>95</td>
</tr>
<tr>
<td>Henthorne, John C.</td>
<td>133</td>
</tr>
<tr>
<td>Heron, William T.</td>
<td>22</td>
</tr>
<tr>
<td>Herrick, Julia F.</td>
<td>135</td>
</tr>
<tr>
<td>Name</td>
<td>Page</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Jones, Roy C.</td>
<td>31</td>
</tr>
<tr>
<td>Jones, Tom B.</td>
<td>13</td>
</tr>
<tr>
<td>Jordan, Philip S.</td>
<td>57</td>
</tr>
<tr>
<td>Joseph, Thomas L.</td>
<td>40</td>
</tr>
<tr>
<td>Kabat, Herman</td>
<td>95</td>
</tr>
<tr>
<td>Kamman, Gordon R.</td>
<td>83</td>
</tr>
<tr>
<td>Karlstrom, Arthur E.</td>
<td>91</td>
</tr>
<tr>
<td>Karpow, Boris G.</td>
<td>2</td>
</tr>
<tr>
<td>Kass, J. Peter</td>
<td>5</td>
</tr>
<tr>
<td>Katz, Evelyn</td>
<td>152</td>
</tr>
<tr>
<td>Kaufert, Frank</td>
<td>66</td>
</tr>
<tr>
<td>Keister, Mary E.</td>
<td>157</td>
</tr>
<tr>
<td>Keith, Norman M.</td>
<td>123</td>
</tr>
<tr>
<td>Kendall, Edward C.</td>
<td>134</td>
</tr>
<tr>
<td>Kennedy, Roger L.</td>
<td>133</td>
</tr>
<tr>
<td>Kepler, Edwin J.</td>
<td>128</td>
</tr>
<tr>
<td>Kerkhof, Arthur C.</td>
<td>81</td>
</tr>
<tr>
<td>Kernkamp, Howard C. H.</td>
<td>74</td>
</tr>
<tr>
<td>Kernkamp, Milton F.</td>
<td>71</td>
</tr>
<tr>
<td>Kernohan, James W.</td>
<td>132</td>
</tr>
<tr>
<td>Keys, Ancel</td>
<td>121</td>
</tr>
<tr>
<td>Kildow, Fred L.</td>
<td>15</td>
</tr>
<tr>
<td>King, Joseph T.</td>
<td>94</td>
</tr>
<tr>
<td>Kinney, Lucien B.</td>
<td>119</td>
</tr>
<tr>
<td>Kinesia, Thomas J.</td>
<td>101</td>
</tr>
<tr>
<td>Kinyon, Stanley V.</td>
<td>76</td>
</tr>
<tr>
<td>Kirchner, Charlotte</td>
<td>53</td>
</tr>
<tr>
<td>Kirklin, Byrl R.</td>
<td>136</td>
</tr>
<tr>
<td>Kirkpatrick, Clifford</td>
<td>25</td>
</tr>
<tr>
<td>Kirschbaum, Arthur</td>
<td>78</td>
</tr>
<tr>
<td>Kiser, Orville M.</td>
<td>55</td>
</tr>
<tr>
<td>Kittleson, Arthur J.</td>
<td>52</td>
</tr>
<tr>
<td>Klitzke, Carl P.</td>
<td>11</td>
</tr>
<tr>
<td>Klug, Harold P.</td>
<td>38</td>
</tr>
<tr>
<td>Knapp, Miland E.</td>
<td>104</td>
</tr>
<tr>
<td>Kneen, Eric</td>
<td>42</td>
</tr>
<tr>
<td>Knight, Ralph T.</td>
<td>100</td>
</tr>
<tr>
<td>Knowler, Franklin H.</td>
<td>28</td>
</tr>
<tr>
<td>Koelsch, C. Frederick</td>
<td>38</td>
</tr>
<tr>
<td>Koelsche, Giles A.</td>
<td>130</td>
</tr>
<tr>
<td>Koepcke, Gerald M.</td>
<td>97</td>
</tr>
<tr>
<td>Koller, E. Fred</td>
<td>45</td>
</tr>
<tr>
<td>Kolouch, Fred, Jr.</td>
<td>78</td>
</tr>
<tr>
<td>Kolhoff, Izaak M.</td>
<td>35</td>
</tr>
<tr>
<td>Konicky, Rudolph W.</td>
<td>107</td>
</tr>
<tr>
<td>Kozelka, Richard L.</td>
<td>145</td>
</tr>
<tr>
<td>Kranhold, Lorraine</td>
<td>8</td>
</tr>
<tr>
<td>Krantz, Fred A.</td>
<td>68</td>
</tr>
<tr>
<td>Krey, August C.</td>
<td>12</td>
</tr>
<tr>
<td>Kruzen, Frank H.</td>
<td>125</td>
</tr>
<tr>
<td>Kulisheck, Clarence L.</td>
<td>9</td>
</tr>
<tr>
<td>Kusch, Polkicbrp</td>
<td>19</td>
</tr>
<tr>
<td>Landon, Raymond H.</td>
<td>72</td>
</tr>
<tr>
<td>Landshoff, Rolf</td>
<td>19</td>
</tr>
<tr>
<td>Lang, Fred C.</td>
<td>31</td>
</tr>
<tr>
<td>Langum, John R.</td>
<td>147</td>
</tr>
<tr>
<td>Name</td>
<td>Page</td>
</tr>
<tr>
<td>-----------------------</td>
<td>------</td>
</tr>
<tr>
<td>Mason, Harold L.</td>
<td>135</td>
</tr>
<tr>
<td>Mason, James C.</td>
<td>139</td>
</tr>
<tr>
<td>Matson, Laura A.</td>
<td>73</td>
</tr>
<tr>
<td>Mattson, Hamlin</td>
<td>104</td>
</tr>
<tr>
<td>Mattson, Harold</td>
<td>69</td>
</tr>
<tr>
<td>Maxeiner, Stanley R.</td>
<td>102</td>
</tr>
<tr>
<td>Mayo, Charles H.</td>
<td>139</td>
</tr>
<tr>
<td>Mayo, Charles W.</td>
<td>142</td>
</tr>
<tr>
<td>McCall, Thomas M.</td>
<td>55</td>
</tr>
<tr>
<td>McCracken, James S., Jr.</td>
<td>88</td>
</tr>
<tr>
<td>McClendon, Jesse F.</td>
<td>93</td>
</tr>
<tr>
<td>McClellan, Henry L.</td>
<td>75</td>
</tr>
<tr>
<td>McConnell, Duncan</td>
<td>11</td>
</tr>
<tr>
<td>McConnell, T. Raymond</td>
<td>112</td>
</tr>
<tr>
<td>McCormick, Frank G.</td>
<td>158</td>
</tr>
<tr>
<td>McCreey, Otis C.</td>
<td>1</td>
</tr>
<tr>
<td>McDaniel, Orianna</td>
<td>97</td>
</tr>
<tr>
<td>McDonald, John R.</td>
<td>133</td>
</tr>
<tr>
<td>McDowell, Tremaine</td>
<td>7</td>
</tr>
<tr>
<td>McGinnis, Esther</td>
<td>157</td>
</tr>
<tr>
<td>McKenzie, Bernard F.</td>
<td>122</td>
</tr>
<tr>
<td>McKenzie, Charles H.</td>
<td>85</td>
</tr>
<tr>
<td>McKinlay, Chauncey A.</td>
<td>154</td>
</tr>
<tr>
<td>McKinley, J. Charnley</td>
<td>79</td>
</tr>
<tr>
<td>McLaughlin, Charles H.</td>
<td>21</td>
</tr>
<tr>
<td>McCloan, Charles E.</td>
<td>86</td>
</tr>
<tr>
<td>McNulty, James B.</td>
<td>52</td>
</tr>
<tr>
<td>McQuarrie, Irvine</td>
<td>88</td>
</tr>
<tr>
<td>Meador, John R.</td>
<td>84</td>
</tr>
<tr>
<td>Medler, John T.</td>
<td>65</td>
</tr>
<tr>
<td>Methley, William J.</td>
<td>74</td>
</tr>
<tr>
<td>Meyerding, Henry W.</td>
<td>141</td>
</tr>
<tr>
<td>Michael, Joseph C.</td>
<td>81</td>
</tr>
<tr>
<td>Michaelis, William J.</td>
<td>119</td>
</tr>
<tr>
<td>Michelson, Henry E.</td>
<td>80</td>
</tr>
<tr>
<td>Mickle, Clarence E.</td>
<td>63</td>
</tr>
<tr>
<td>Miller, Albert</td>
<td>137</td>
</tr>
<tr>
<td>Miller, Dalton G.</td>
<td>49</td>
</tr>
<tr>
<td>Miller, Elmer S.</td>
<td>3</td>
</tr>
<tr>
<td>Miller, Lounlain F.</td>
<td>17</td>
</tr>
<tr>
<td>Miller, Paul E.</td>
<td>49</td>
</tr>
<tr>
<td>Miller, Shirley P.</td>
<td>78</td>
</tr>
<tr>
<td>Mills, Lennox A.</td>
<td>20</td>
</tr>
<tr>
<td>Minault, Paul A.</td>
<td>25</td>
</tr>
<tr>
<td>Minekler, Jeff</td>
<td>78</td>
</tr>
<tr>
<td>Mitchell, Mcancel T.</td>
<td>86</td>
</tr>
<tr>
<td>Minnar, John W.</td>
<td>55</td>
</tr>
<tr>
<td>Moe, Gordon K.</td>
<td>96</td>
</tr>
<tr>
<td>Moersch, Frederick P.</td>
<td>125</td>
</tr>
<tr>
<td>Moersch, Herman J.</td>
<td>126</td>
</tr>
<tr>
<td>Monachesi, Elio D.</td>
<td>26</td>
</tr>
<tr>
<td>Montgomery, Franz</td>
<td>8</td>
</tr>
<tr>
<td>Montgomery, Hamilton</td>
<td>126</td>
</tr>
<tr>
<td>Moore, Matthew B.</td>
<td>72</td>
</tr>
<tr>
<td>Morris, William E.</td>
<td>52</td>
</tr>
<tr>
<td>Morse, Horace T.</td>
<td>116</td>
</tr>
<tr>
<td>Morse, Russell W.</td>
<td>107</td>
</tr>
<tr>
<td>Moseley, Russell L.</td>
<td>78</td>
</tr>
<tr>
<td>Mott, George F.</td>
<td>119</td>
</tr>
<tr>
<td>Moyer, Laurence S.</td>
<td>4</td>
</tr>
<tr>
<td>Moyle, John B.</td>
<td>5</td>
</tr>
<tr>
<td>Mudgett, Bruce D.</td>
<td>145</td>
</tr>
<tr>
<td>Munro, Donald F.</td>
<td>11</td>
</tr>
<tr>
<td>Murchie, Robert W.</td>
<td>73</td>
</tr>
<tr>
<td>Murray, M. E. Miriam</td>
<td>158</td>
</tr>
<tr>
<td>Murray, William D.</td>
<td>65</td>
</tr>
<tr>
<td>Mussey, Robert D.</td>
<td>130</td>
</tr>
<tr>
<td>Myers, Jack E.</td>
<td>5</td>
</tr>
<tr>
<td>Myers, Will M.</td>
<td>59</td>
</tr>
<tr>
<td>Nafziger, Ralph O.</td>
<td>14</td>
</tr>
<tr>
<td>Nashland, Ames W.</td>
<td>107</td>
</tr>
<tr>
<td>Neal, Jesse H.</td>
<td>48</td>
</tr>
<tr>
<td>Nelson, Arthur A.</td>
<td>88</td>
</tr>
<tr>
<td>Nelson, Lowry</td>
<td>73</td>
</tr>
<tr>
<td>Nelson, Richard C.</td>
<td>72</td>
</tr>
<tr>
<td>Nestler, Carlos W.</td>
<td>151</td>
</tr>
<tr>
<td>Netz, Charles V.</td>
<td>110</td>
</tr>
<tr>
<td>Neubauer, Loren W.</td>
<td>49</td>
</tr>
<tr>
<td>New, Gordon B.</td>
<td>131</td>
</tr>
<tr>
<td>Newhart, Horace</td>
<td>86</td>
</tr>
<tr>
<td>Nichols, Charles W.</td>
<td>7</td>
</tr>
<tr>
<td>Niles, Kathryn B.</td>
<td>67</td>
</tr>
<tr>
<td>Noble, John F.</td>
<td>88</td>
</tr>
<tr>
<td>Nohavec, Hazel B.</td>
<td>116</td>
</tr>
<tr>
<td>Nolan, Lewis E.</td>
<td>88</td>
</tr>
<tr>
<td>Nolte, Julius M.</td>
<td>161</td>
</tr>
<tr>
<td>Norberg, K. Sverre</td>
<td>17</td>
</tr>
<tr>
<td>Nordin, John A.</td>
<td>148</td>
</tr>
<tr>
<td>Nordland, Martin</td>
<td>102</td>
</tr>
<tr>
<td>Nordly, Carl L.</td>
<td>159</td>
</tr>
<tr>
<td>Norris, Edgar H.</td>
<td>88</td>
</tr>
<tr>
<td>Norris, J. Anna</td>
<td>160</td>
</tr>
<tr>
<td>Novak, Milan V.</td>
<td>79</td>
</tr>
<tr>
<td>Nuquist, Joseph E.</td>
<td>27</td>
</tr>
<tr>
<td>Nurnberger, Carl E.</td>
<td>93</td>
</tr>
<tr>
<td>Nydahl, Malvin J.</td>
<td>99</td>
</tr>
<tr>
<td>O'Brien, William A.</td>
<td>88</td>
</tr>
<tr>
<td>Odland, Martin L.</td>
<td>69</td>
</tr>
<tr>
<td>Ogle, Marbury B.</td>
<td>5</td>
</tr>
<tr>
<td>O'Leary, Paul A.</td>
<td>139</td>
</tr>
<tr>
<td>Oliver, Clarence P.</td>
<td>29</td>
</tr>
<tr>
<td>Oliver, W. Donald</td>
<td>17</td>
</tr>
<tr>
<td>Olsen, O. Wilford</td>
<td>64</td>
</tr>
<tr>
<td>Olson, Magnus</td>
<td>29</td>
</tr>
<tr>
<td>Olson, Olaf A.</td>
<td>103</td>
</tr>
<tr>
<td>Orr, Leslie W.</td>
<td>65</td>
</tr>
<tr>
<td>Osgood, Ernest S.</td>
<td>121</td>
</tr>
<tr>
<td>Osterberg, Arnold E.</td>
<td>121</td>
</tr>
<tr>
<td>Ostlund, Harry J.</td>
<td>146</td>
</tr>
<tr>
<td>Overmeyer, Philip H.</td>
<td>14</td>
</tr>
<tr>
<td>Pace, C. Robert</td>
<td>151</td>
</tr>
<tr>
<td>Paine, John R.</td>
<td>103</td>
</tr>
<tr>
<td>Name</td>
<td>Page</td>
</tr>
<tr>
<td>--------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Painter, Edgar P.</td>
<td>43</td>
</tr>
<tr>
<td>Palmer, Leroy S.</td>
<td>42</td>
</tr>
<tr>
<td>Palmer, Mellie F.</td>
<td>98</td>
</tr>
<tr>
<td>Paterson, Donald G.</td>
<td>22</td>
</tr>
<tr>
<td>Patterson, Dale O.</td>
<td>116</td>
</tr>
<tr>
<td>Pattison, Walter T.</td>
<td>24</td>
</tr>
<tr>
<td>Pattridge, Mark O.</td>
<td>108</td>
</tr>
<tr>
<td>Peik, Wesley E.</td>
<td>111</td>
</tr>
<tr>
<td>Pemberton, John deJ.</td>
<td>140</td>
</tr>
<tr>
<td>Pepinsky, Abe</td>
<td>115</td>
</tr>
<tr>
<td>Peters, Howard C.</td>
<td>95</td>
</tr>
<tr>
<td>Peters, Walter H.</td>
<td>59</td>
</tr>
<tr>
<td>Peters, William A.</td>
<td>54</td>
</tr>
<tr>
<td>Petersen, William E.</td>
<td>61</td>
</tr>
<tr>
<td>Peterson, G. Leroy</td>
<td>47</td>
</tr>
<tr>
<td>Peterson, Harold O.</td>
<td>107</td>
</tr>
<tr>
<td>Peterson, Shailer A.</td>
<td>119</td>
</tr>
<tr>
<td>Petry, Lucile</td>
<td>105</td>
</tr>
<tr>
<td>Pettengill, True E.</td>
<td>1</td>
</tr>
<tr>
<td>Petter, Charles K.</td>
<td>103</td>
</tr>
<tr>
<td>Peyton, William T.</td>
<td>100</td>
</tr>
<tr>
<td>Phelps, Ethel L.</td>
<td>67</td>
</tr>
<tr>
<td>Phelps, Kenneth A.</td>
<td>86</td>
</tr>
<tr>
<td>Phillips, Robert A.</td>
<td>4</td>
</tr>
<tr>
<td>Picard, Jean F.</td>
<td>31</td>
</tr>
<tr>
<td>Pierce, George O.</td>
<td>98</td>
</tr>
<tr>
<td>Pilkey, Alvey M.</td>
<td>56</td>
</tr>
<tr>
<td>Piper, Monte C.</td>
<td>128</td>
</tr>
<tr>
<td>Piper, Ralph A.</td>
<td>159</td>
</tr>
<tr>
<td>Piret, Edgar L.</td>
<td>37</td>
</tr>
<tr>
<td>Pirig, Maynard E.</td>
<td>75</td>
</tr>
<tr>
<td>Platou, Erling S.</td>
<td>89</td>
</tr>
<tr>
<td>Plummer, William A.</td>
<td>126</td>
</tr>
<tr>
<td>Pomeroy, Benjamin S.</td>
<td>75</td>
</tr>
<tr>
<td>Pond, George A.</td>
<td>44</td>
</tr>
<tr>
<td>Potter, Orrin W.</td>
<td>32</td>
</tr>
<tr>
<td>Potts, Adam E.</td>
<td>158</td>
</tr>
<tr>
<td>Powell, John W.</td>
<td>153</td>
</tr>
<tr>
<td>Power, Marschelle H.</td>
<td>135</td>
</tr>
<tr>
<td>Prange, Avery D.</td>
<td>131</td>
</tr>
<tr>
<td>Prescott, Gerald R.</td>
<td>16</td>
</tr>
<tr>
<td>Price, Richard R.</td>
<td>152</td>
</tr>
<tr>
<td>Prickett, Glenn I.</td>
<td>57</td>
</tr>
<tr>
<td>Prickman, Louis E.</td>
<td>128</td>
</tr>
<tr>
<td>Priestley, James T.</td>
<td>142</td>
</tr>
<tr>
<td>Pritchard, A. Earl</td>
<td>65</td>
</tr>
<tr>
<td>Proshak, Charles E.</td>
<td>85</td>
</tr>
<tr>
<td>Prosser, William L.</td>
<td>75</td>
</tr>
<tr>
<td>Quigley, Harold S.</td>
<td>20</td>
</tr>
<tr>
<td>Randusch, Dorothea</td>
<td>108</td>
</tr>
<tr>
<td>Randall, Lawrence M.</td>
<td>130</td>
</tr>
<tr>
<td>Randel, William</td>
<td>73</td>
</tr>
<tr>
<td>Ranney, Willard P.</td>
<td>45</td>
</tr>
<tr>
<td>Rarig, Frank M.</td>
<td>28</td>
</tr>
<tr>
<td>Raskin, Evelyn</td>
<td>24</td>
</tr>
<tr>
<td>Rasmussen, Andrew T.</td>
<td>77</td>
</tr>
<tr>
<td>Rea, Charles E.</td>
<td>103</td>
</tr>
<tr>
<td>Read, Horace E.</td>
<td>75</td>
</tr>
<tr>
<td>Rees, Louis W.</td>
<td>66</td>
</tr>
<tr>
<td>Reif, Charles B.</td>
<td>30</td>
</tr>
<tr>
<td>Renfrew, Malcolm M.</td>
<td>39</td>
</tr>
<tr>
<td>Reyersen, Lloyd H.</td>
<td>35</td>
</tr>
<tr>
<td>Rice, Carl O.</td>
<td>103</td>
</tr>
<tr>
<td>Richards, William H.</td>
<td>35</td>
</tr>
<tr>
<td>Richardson, Harlow C.</td>
<td>7</td>
</tr>
<tr>
<td>Rigler, Leo G.</td>
<td>106</td>
</tr>
<tr>
<td>Riley, William A.</td>
<td>63</td>
</tr>
<tr>
<td>Ringgen, Adolph R.</td>
<td>29</td>
</tr>
<tr>
<td>Ritchie, Wallace P.</td>
<td>104</td>
</tr>
<tr>
<td>Rivers, Andrew B.</td>
<td>128</td>
</tr>
<tr>
<td>Robb, David M.</td>
<td>9</td>
</tr>
<tr>
<td>Robbins, Owen F.</td>
<td>85</td>
</tr>
<tr>
<td>Roberts, Thomas S.</td>
<td>153</td>
</tr>
<tr>
<td>Robertson, Burton J.</td>
<td>35</td>
</tr>
<tr>
<td>Robertson, Harold E.</td>
<td>132</td>
</tr>
<tr>
<td>Robitshek, Emil C.</td>
<td>102</td>
</tr>
<tr>
<td>Roe, Harry B.</td>
<td>47</td>
</tr>
<tr>
<td>Roepke, Martin H.</td>
<td>74</td>
</tr>
<tr>
<td>Roesch, C. Burling</td>
<td>105</td>
</tr>
<tr>
<td>Rogers, Charles F.</td>
<td>43</td>
</tr>
<tr>
<td>Rogers, Charles H.</td>
<td>109</td>
</tr>
<tr>
<td>Rogers, Mabel C.</td>
<td>67</td>
</tr>
<tr>
<td>Rogers, Marvin C.</td>
<td>37</td>
</tr>
<tr>
<td>Rolfe, Alex B.</td>
<td>57</td>
</tr>
<tr>
<td>Rose, Ella J.</td>
<td>116</td>
</tr>
<tr>
<td>Rosenfeld, C. Otto</td>
<td>3</td>
</tr>
<tr>
<td>Rosenow, Edward C.</td>
<td>121</td>
</tr>
<tr>
<td>Rotchaefer, Henry</td>
<td>76</td>
</tr>
<tr>
<td>Rotzel, Clare L.</td>
<td>152</td>
</tr>
<tr>
<td>Rowley, Frank B.</td>
<td>33</td>
</tr>
<tr>
<td>Rucker, C. Willhr</td>
<td>131</td>
</tr>
<tr>
<td>Rudolph, Charles E.</td>
<td>108</td>
</tr>
<tr>
<td>Ruggles, Arthur G.</td>
<td>63</td>
</tr>
<tr>
<td>Rumbaugh, Lynn H.</td>
<td>18</td>
</tr>
<tr>
<td>Rusten, Elmer M.</td>
<td>83</td>
</tr>
<tr>
<td>Rund, Martin B.</td>
<td>6</td>
</tr>
<tr>
<td>Ryan, James J.</td>
<td>35</td>
</tr>
<tr>
<td>Ryman, Marshall W.</td>
<td>72</td>
</tr>
<tr>
<td>Rynearson, Edward H.</td>
<td>128</td>
</tr>
<tr>
<td>Sadler, William P.</td>
<td>85</td>
</tr>
<tr>
<td>Sako, Wallace</td>
<td>92</td>
</tr>
<tr>
<td>Sallee, George A.</td>
<td>46</td>
</tr>
<tr>
<td>Samuels, Leo T.</td>
<td>94</td>
</tr>
<tr>
<td>Sandell, Ernest B.</td>
<td>36</td>
</tr>
<tr>
<td>Sandlo, Louis</td>
<td>69</td>
</tr>
<tr>
<td>Sandstrom, W. Martin</td>
<td>42</td>
</tr>
<tr>
<td>Sanford, Arthur H.</td>
<td>132</td>
</tr>
<tr>
<td>Satorius, Mary</td>
<td>67</td>
</tr>
<tr>
<td>Savage, George M.</td>
<td>79</td>
</tr>
<tr>
<td>Scannlon, Richard E.</td>
<td>120</td>
</tr>
<tr>
<td>Schenck, Mildred</td>
<td>54</td>
</tr>
<tr>
<td>Seberberg, Max G.</td>
<td>34</td>
</tr>
<tr>
<td>Schiele, Burtrum C.</td>
<td>82</td>
</tr>
</tbody>
</table>
INDEX

Schiffett, Chester H. .......................... 39
Schlothauer, Carl F. .......................... 142
Schmid, Calvin F. ............................ 27
Schmidt, Emerson P. .......................... 146
Schmitz, Henry ................................. 65
Schneider, F. Joseph .......................... 27
Schofield, Norman D. .......................... 78
Schwantes, Arthur J. .......................... 47
Schwantz, Henry ................................. 10
Schwyzer, Arnold ................................ 87
Scott, Frank W. ................................. 40
Scott, Frederick H. ............................ 93
Scott, Horace G. ............................... 104
Searles, Colbert ............................... 40
Searles, Harold R. ............................ 50
Searles, John N. ............................... 90
Schofield, Norman D. .......................... 78
Schofield, Norman D. .......................... 78
Shaw, Joseph C. ................................ 62
Shea, Alice L. .................................. 26
Sheard, Charles ................................ 122
Shepard, William G. ............................ 18
Sherman, Royal V. .............................. 155
Shimoneneck, Stewart W. ....................... 104
Shippee, Lester B. ............................. 11
Short, Lloyd M. ................................ 20
Shove, Raymond H. .............................. 153
Sibley, Mulford Q. ............................. 21
Siler, Roderick W. .............................. 34
Simon, William J. .............................. 108
Simpson, Floyd R. .............................. 148
Skinner, B. Frederic ........................... 23
Skinner, Charles E. ............................ 79
Skogland, John E. .............................. 84
Sieto, Raymond F. .............................. 27
Sloan, Hubert J. ................................ 59
Slocumb, Charles H. ............................ 130
Smith, Adam M. ................................ 82
Smith, Benjamin F. .............................. 126
Smith, Benjamin F. .............................. 126
Smith, Dora V. .................................. 114
Smith, Dorothy M. .............................. 56
Smith, Frederick L. ............................ 143
Smith, Harry L. ................................. 128
Smith, Homer J. ................................ 117
Smith, Lee I. .................................... 38
Smythe, Charles E. ............................. 110
Weed, M. Cannon ............................... 37
Snell, Albert M. ................................ 126
Sontag, May ...................................... 54
Sorenson, Herbert .............................. 152
Spafford, I. ..................................... 149
Spier, Algernon H. .............................. 153
Sperling, Louis ................................. 104
Spink, Wesley W. ............................... 82
Stafne, Edward C. .............................. 143
Stakman, Elvin C. .............................. 149
Starr, Joseph R. ................................ 21
Steele, Lawrence D. ............................. 13
Steinbach, H. Burr .............................. 29
Stenstrom, K. Wilhelm ......................... 94
Stephenson, George M. ......................... 12
Stevenson, Russell A. ......................... 144
Stewart, Thomas E. ............................. 161
Stewart, Chester A. ............................ 89
Stoesser, Albert V. ............................. 90
Stoll, Elmer E. ................................... 6
Stoltz, Merton P. ............................... 147
Stomberg, Andrew A. ............................ 25
Staub, Lorenz G. ................................ 74
Stuhler, Louis G. ............................... 143
Sundet, Nere J. .................................. 105
Sutherland, Charles G. ......................... 136
Swanson, Gustav ................................. 63
Sweitzer, Samuel E. ............................. 80
Swenson, David F. ............................... 16
Tanquary, Maurice C. ........................... 63
Tate, John T. ..................................... 1
Tervet, Ian W. ..................................... 72
Thackrey, Russell I. ............................ 15
Thiel, George A. .................................. 10
Thom, Lewis W. ................................... 108
Thomas, Gertrude I. ............................. 106
Thomas, Gilbert J. .............................. 101
Thomas, Joseph M. ................................ 6
Thompson, Charlotte M. ........................ 75
Thompson, Gershom J. ........................... 143
Thompson, Luther ............................... 121
Thompson, Mark J. .............................. 56
Thorp, Ella ....................................... 16
Tinker, Miles A. ................................. 22
Tolaas, Arne G. ................................. 68
Torrance, James B. .............................. 48
Touby, Edward B. ............................... 143
Trelor, Alan E. ................................... 98
Tregunm, Harry ................................. 46
True, Raymond C. ............................... 78
Trug, Clarence P. ............................... 107
Turner, John P. ................................... 29
Turner, LeRoy .................................... 31
Tyler, Arthur G. ................................. 48
Ude, Walter H. ................................... 106
Ullrich, Henry L. ................................ 80
Upgren, Arthur R. ............................... 146
Vaile, Gertrude ................................... 26
Vaile, Roland S. ................................. 145
Valasek, Joseph ................................. 17
Van Wagenen, Marvin J. ....................... 115
Varco, Richard L. ............................... 105
Verrall, Arthur F. ............................... 72
<table>
<thead>
<tr>
<th>Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vigness, Irwin</td>
<td>107</td>
</tr>
<tr>
<td>Villard, Henry H.</td>
<td>148</td>
</tr>
<tr>
<td>Visscher, Maurice B.</td>
<td>93</td>
</tr>
<tr>
<td>Vitz, Carl</td>
<td>154</td>
</tr>
<tr>
<td>Vogele, Alfred C.</td>
<td>71</td>
</tr>
<tr>
<td>Voight, Ralph F.</td>
<td>110</td>
</tr>
<tr>
<td>Vold, George B.</td>
<td>26</td>
</tr>
<tr>
<td>Wagener, Henry P.</td>
<td>131</td>
</tr>
<tr>
<td>Waite, Warren C.</td>
<td>44</td>
</tr>
<tr>
<td>Wakefield, Elmer G.</td>
<td>129</td>
</tr>
<tr>
<td>Waldon, Curtis H.</td>
<td>110</td>
</tr>
<tr>
<td>Walker, Mary J.</td>
<td>119</td>
</tr>
<tr>
<td>Walker, Virgil R.</td>
<td>119</td>
</tr>
<tr>
<td>Wall, Frederick T.</td>
<td>39</td>
</tr>
<tr>
<td>Wallis, Wilson D.</td>
<td>2</td>
</tr>
<tr>
<td>Walter, Frank K.</td>
<td>153</td>
</tr>
<tr>
<td>Walters, Walterman</td>
<td>140</td>
</tr>
<tr>
<td>Wangensteen, Owen H.</td>
<td>99</td>
</tr>
<tr>
<td>Ward, James W.</td>
<td>30</td>
</tr>
<tr>
<td>Warnock, Florence M.</td>
<td>160</td>
</tr>
<tr>
<td>Warrington, Sylvan T.</td>
<td>54</td>
</tr>
<tr>
<td>Wasson, Chester R.</td>
<td>73</td>
</tr>
<tr>
<td>Watkins, Charles H.</td>
<td>129</td>
</tr>
<tr>
<td>Watson, Bernard A.</td>
<td>154</td>
</tr>
<tr>
<td>Watson, Cecil J.</td>
<td>81</td>
</tr>
<tr>
<td>Waugh, John M.</td>
<td>144</td>
</tr>
<tr>
<td>Weaver, Edgar W.</td>
<td>151</td>
</tr>
<tr>
<td>Webb, James S.</td>
<td>33</td>
</tr>
<tr>
<td>Webb, Roscoe C.</td>
<td>102</td>
</tr>
<tr>
<td>Weber, Harry M.</td>
<td>137</td>
</tr>
<tr>
<td>Weir, James P.</td>
<td>129</td>
</tr>
<tr>
<td>Weisman, Samuel A.</td>
<td>82</td>
</tr>
<tr>
<td>Wesley, Edgar B.</td>
<td>114</td>
</tr>
<tr>
<td>Wessel, Amy</td>
<td>54</td>
</tr>
<tr>
<td>Westbrook, Robert B.</td>
<td>148</td>
</tr>
<tr>
<td>Wetherill, Fred E.</td>
<td>47</td>
</tr>
<tr>
<td>Wetzel, Wilfred W.</td>
<td>18</td>
</tr>
<tr>
<td>White, Albert B.</td>
<td>13</td>
</tr>
<tr>
<td>White, Hall B.</td>
<td>48</td>
</tr>
<tr>
<td>White, Wendell</td>
<td>152</td>
</tr>
<tr>
<td>Whitfield, Eves E.</td>
<td>52</td>
</tr>
<tr>
<td>Whitmore, Frank W.</td>
<td>84</td>
</tr>
<tr>
<td>Whittaker, Harold A.</td>
<td>98</td>
</tr>
<tr>
<td>Widdowson, Harold T.</td>
<td>117</td>
</tr>
<tr>
<td>Wilbur, Dwight L.</td>
<td>129</td>
</tr>
<tr>
<td>Wilcox, Arthur N.</td>
<td>68</td>
</tr>
<tr>
<td>Wilcox, Hugh B.</td>
<td>34</td>
</tr>
<tr>
<td>Wilder, Robert L.</td>
<td>91</td>
</tr>
<tr>
<td>Wilder, Russell M.</td>
<td>123</td>
</tr>
<tr>
<td>Will, Lucy M.</td>
<td>119</td>
</tr>
<tr>
<td>Willey, Malcolm M.</td>
<td>1</td>
</tr>
<tr>
<td>Williams, Cornelia T.</td>
<td>151</td>
</tr>
<tr>
<td>Williams, John H.</td>
<td>18</td>
</tr>
<tr>
<td>Williamson, Edmund G.</td>
<td>161</td>
</tr>
<tr>
<td>Williams, Fredrick A.</td>
<td>127</td>
</tr>
<tr>
<td>Wilson, Elmo C.</td>
<td>151</td>
</tr>
<tr>
<td>Wilson, Harold K.</td>
<td>58</td>
</tr>
<tr>
<td>Wilson, Louis B.</td>
<td>121</td>
</tr>
<tr>
<td>Winter, James D.</td>
<td>69</td>
</tr>
<tr>
<td>Winters, Laurence M.</td>
<td>60</td>
</tr>
<tr>
<td>Winther, Nora</td>
<td>155</td>
</tr>
<tr>
<td>Wise, Joseph A.</td>
<td>32</td>
</tr>
<tr>
<td>Wishart, Arthur W.</td>
<td>38</td>
</tr>
<tr>
<td>Wolman, Henry W.</td>
<td>124</td>
</tr>
<tr>
<td>Wood, Earl H.</td>
<td>96</td>
</tr>
<tr>
<td>Wood, Harry G.</td>
<td>129</td>
</tr>
<tr>
<td>Wrenn, C. Gilbert</td>
<td>149</td>
</tr>
<tr>
<td>Wright, Charles B.</td>
<td>80</td>
</tr>
<tr>
<td>Wright, Franklin R.</td>
<td>101</td>
</tr>
<tr>
<td>Wright, Harold N.</td>
<td>92</td>
</tr>
<tr>
<td>Wulling, Frederick J.</td>
<td>109</td>
</tr>
<tr>
<td>Wyatt, Oswald S.</td>
<td>102</td>
</tr>
<tr>
<td>Ylvisaker, Hedvig</td>
<td>151</td>
</tr>
<tr>
<td>Yoder, Dale</td>
<td>145</td>
</tr>
<tr>
<td>Zavoral, Henry G.</td>
<td>53</td>
</tr>
<tr>
<td>Ziebarth, E. William</td>
<td>29</td>
</tr>
<tr>
<td>Ziegenfeld, Edwin</td>
<td>112</td>
</tr>
<tr>
<td>Ziegler, Mildred R.</td>
<td>90</td>
</tr>
<tr>
<td>Zierold, Arthur A.</td>
<td>99</td>
</tr>
<tr>
<td>Zieve, Leslie</td>
<td>158</td>
</tr>
<tr>
<td>Ziskin, Thomas</td>
<td>82</td>
</tr>
<tr>
<td>Zion, Raphael</td>
<td>66</td>
</tr>
</tbody>
</table>