

PUBLICATIONS  
OF THE FACULTIES

1932-1933

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## FOREWORD

The services of the members of the faculty of the University of Minnesota to the people of the state is by no means confined to teaching and the classroom. The list of publications on the following pages is impressive evidence of the contributions made by the staff in research and interpretive writing. Almost every field of interest and scholarship is represented. The publications vary in their ultimate importance, but no one can doubt after studying these pages that as a group they constitute a substantial addition to knowledge, and that the results flowing from them will serve to enhance both scholarship and human well-being.

L. D. COFFMAN, *President*

# PUBLICATIONS OF THE FACULTIES

## ADMINISTRATION

WILLIAM T. MIDDLEBROOK, B.A., M.C.S., Comptroller

"Higher education finance in Minnesota." *Minnesota Alumni Weekly*, 32:303-304. February 4, 1933.

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

"Changing sources of university enrolment." *School and Society*, 36:375-76. 1932.

## THE COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

### ADMINISTRATION

JOHN B. JOHNSTON, Ph.D., D.Sc., Dean of the College of Science, Literature, and the Arts and Professor of Neurology

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

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

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C. OTTO ROSENDAHL, Ph.D., Professor of Botany and Chairman of the Department of Botany

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MILDRED E. HALLBERG, M.S., Assistant in Botany

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ROBERT R. HUMPHREY, Ph.D., Assistant in Botany

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OLGA LAKELA, Ph.D., Herbarium Assistant

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WILLIAM R. BROWN, M.S., National Live Stock and Meat Board Fellow

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CECIL A. MOORE, Ph.D., Professor of English and Chairman of the De-  
partment of English

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- "Mentone. A Riviera resort undiscovered by Americans." *Pomona College Magazine*, 21:85-87. January, 1933.

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

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

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JAMES M. EDMUNDS, M.A., Instructor in English

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

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EDGAR W. WEAVER, B.A., Instructor in English

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

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RALPH H. BROWN, Ph.D., Assistant Professor of Geography

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RICHARD HARTSHORNE, Ph.D., Assistant Professor of Geography

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SAMUEL N. DICKEN, Ph.D., Instructor in Geography

Abstracts in *Social Science Abstracts*, Vol. 4. 1932. Nos. 14218, 14230, 17710, 19562.

### GEOLOGY AND MINERALOGY

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

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"The basal regions of granitic batholiths." *Journal of Geology*, 41:1-11. 1933.

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

*The Rove formation of Northeastern Minnesota* (with G. M. Schwartz). Minnesota Geological Survey Bulletin 24. Minneapolis: University of Minnesota Press. 1933. 99 pages.

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CLINTON R. STAUFFER, Ph.D., Professor of Geology

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

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

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

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GEORGE R. DOWNS, B.A., Instructor in Geology and Mineralogy

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CARL E. DUTTON, Ph.D., Instructor in Geology and Mineralogy

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HAROLD S. HICKS, Ph.D., Instructor in Geology

*Exercises for General Geology Laboratory*. Minneapolis: University of Minnesota Mimeograph Department. 1933. 11 mimeographed pages.

#### GERMAN

SAMUEL KROESCH, Ph.D., Professor of German and Chairman of the Department of German

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

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AUSTIN A. DOWELL, Ph.D., Superintendent of the Northwest School and Experiment Station and Professor of Agriculture

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RAYMOND STARR DUNHAM, B.S. in Agr., Assistant Professor of Agronomy and Agronomist, Northwest School and Experiment Station

*Sweet Clover in the Red River Valley. An Experimental Study of Methods of Sowing, Root and Top Development, and Types and Varieties.* University of Minnesota thesis. 72 typewritten pages.

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

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HILDUR PETERSON HOLLANDER, B.A., Instructor in Voice and Music, Northwest School and Experiment Station

Co-editor, *Red River Aggie*, School annual, 1933. 80 pages.

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

Numerous articles on the work of the Northwest School published in the *Northwest Monthly* and local papers.

CYNTHIA WEINBERGER, B.A., Instructor in English, Northwest School and Experiment Station

Co-editor, *Red River Aggie*, School annual, 1933. 80 pages.

## DULUTH

MARK J. THOMPSON, M.S., Superintendent of Northeast Experiment Station and Associate Professor of Farm Engineering

Editor

Farm management page, *Stock and Dairy Farmer*. 1932-33.

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DEDRICH T. GRUSSENDORF, B.S., Instructor, North Central School and Experiment Station

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PAUL E. MILLER, M.Agr., Superintendent of the West Central School and Experiment Station and Professor of Agriculture

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JOHN A. ANDERSON, B.S.A., Assistant Professor of Horticulture, West Central School and Station

Co-writer of articles of general horticultural interest sent to west central Minnesota newspapers.

ROY O. BRIDGFORD, M.S., Assistant Professor of Agronomy, West Central School and Experiment Station

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

Co-writer of articles on poultry and farm management sent to west central Minnesota newspapers.

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

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Co-writer of weekly news articles sent to west central Minnesota newspapers.

THEODORE H. FENSKE, B.S., Instructor in Farm Crops and Soils, West Central School and Experiment Station

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ALBERT C. HEINE, Instructor in Physics and Farm Mechanics, West Central School and Experiment Station

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NANNA JELSTRUP, B.A., Instructor in English and Mathematics, West Central School and Experiment Station

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

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

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CLARENCE H. ECKLES,<sup>1</sup> D.Sc., Professor of Dairy Husbandry and Chief of the Division of Dairy Husbandry

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#### WILLES BARNES COMBS, M.A., Professor of Dairy Husbandry

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News items for papers on various phases of state extension forestry work.

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

*Timely Truths about Poultry Troubles*. University of Minnesota Agricultural Extension Division Special Bulletin No. 154. 132. 36 pages.

*Turkey News Letter*. Issued monthly. 2 multigraphed pages.

EVA L. BLAIR, B.S., Assistant Professor of Agricultural Extension and Extension Specialist in Home Organization

Home Demonstration Syndicate Feature. Issued by the University of Minnesota Agricultural Extension Service. Published weekly in 68 country weekly newspapers in Minnesota, 1932-33.

WILLIAM L. CAVERT, Ph.D., Assistant Professor of Agricultural Extension and Extension Economist

*Suggestions on Farm Leases.* University of Minnesota Agricultural Extension Division Special Bulletin No. 153. 1932. 16 pages.

*Adjusting Farm Debts* (with E. C. Johnson). University of Minnesota Agricultural Extension Division Special Bulletin No. 157. 1932. 8 pages.

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"Life insurance for farm people." Project 15, pages 52-56 in *Research in Agricultural Insurance*. New York: Social Science Research Council. 1932.

"Is there an agricultural surplus?" *Farmer and Farm, Stock and Home*, Vol. 50, No. 9, pp. 5, 16. 1932.

"August Parsons learns more about farm accounts." *Furrow*, 37:3, 10. 1932.

"Timely adjustments in farm leases." *Minnesota Farm Business Notes*, No. 115. July, 1932.

Editor, Farm Economics Department, *Minnesota Extension News*. 1932-33.

Advance and follow-up publicity material for use in counties where outlook and farm management meetings were being held.

News items for papers on various phases of state extension farm economics work.

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

*A Well Planned Farm Business.* University of Minnesota Agricultural Extension Division Special Bulletin No. 155. 1932. 16 pages.

*Annual Report of the Farm Management Service for Farmers of Northern Minnesota for the Year 1931* (with G. A. Pond, W. P. Ranney, and W. L. Cavert). University of Minnesota Division of Agricultural Economics Report No. 55. May, 1932. 17 mimeographed pages.

*Annual Report of the Farm Management Service for Farmers of Northern Minnesota for the Year 1932* (with G. A. Pond, W. P. Ranney, and W. L. Cavert). University of Minnesota Division of Agricultural Economics Report No. 60. May, 1933. 18 mimeographed pages.

"Earnings on Minnesota farms" (with G. A. Sallee and W. P. Ranney). *Minnesota Farm Business Notes*, No. 127. June, 1933. 5 mimeographed pages.

"The farm outlook." *Albert Lea Community Magazine*, November, 1932.

"Little hope for improved prices." *East Grand Forks Weekly Record*, February 17, 1933.

"Some suggestions on the 1933 farm program." *Kanabec County Times*, March 16, 1933.

"Feed cattle liberally." Sent to 65 weekly newspapers, November 30, December 9, 1932.

"Home talent plays are ideal entertainment." Sent to 18 Minnesota weekly newspapers, January, 1933.

Program material for rural communities. Issued monthly. 6 mimeographed pages.

Advance and follow-up publicity material for counties in which outlook and farm management meetings were being held.

News items for papers on various phases of state extension farm management work.

**CORA E. COOKE, B.S., Assistant Professor of Agricultural Extension and Extension Poultry Specialist**

*Poultry News Letter and Record Farm Report.* Issued monthly. 2 mimeographed pages.

"Sanitation makes better pullets." *Farmer and Farm, Stock and Home*, Vol. 51, No. 8, p. 5. 1933.

Home Demonstration Syndicate Feature. Issued by the University of Minnesota Agricultural Extension Division. Published weekly in 68 country weekly newspapers in Minnesota, 1932-33.

Advance and follow-up publicity prepared for newspapers in counties where poultry project is being carried.

News items for papers on various phases of state extension poultry work.

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

*Thirteenth Annual Report of the International Crop Improvement Association, 1931.* Minneapolis: Colwell Press. 1932. 48 pages.

*Pasture Plants and Pasture Combinations* (with A. C. Army). University of Minnesota Agricultural Extension Division Circular No. 40. 1933. 8 pages.

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"Yield trials of double crossed corn in central Minnesota" (with I. J. Johnson). *Ibid.*, Vol. 6, No. 2, p. 3. 1933.

Editor, *Minnesota Seed Grower*. 1932-33. Bi-monthly publication.

Mimeographed report on corn demonstrations.

Mimeographed report on varietal demonstrations with small grains.

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

"Toyland and joyland." *Agricultural Leaders' Digest*, Vol. 14, No. 1, pp. 28-29. 1933.

Home Demonstration Syndicate Feature. Issued by the University of Minnesota Agricultural Extension Service. Published weekly in 68 country weekly newspapers in Minnesota, 1932-33.

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.

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 Dairy Husbandry and Extension Dairy Specialist**

*Know Your Cows.* University of Minnesota Agricultural Extension Division Special Bulletin No. 152. 1932. 12 pages.

"Prevent weed taint." *Successful Farming*, Vol. 30, No. 10, p. 35. 1932.

"Calcium experiments." *Ibid.*, Vol. 30, No. 12, pp. 29, 30. 1932.

"Feed well—forget heat and flies." *Country Gentleman*, Vol. 102, No. 7, p. 44. 1932.

News items for papers on various phases of state extension dairy work.

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

*Home Canning of Fruits and Vegetables.* University of Minnesota Agricultural Extension Division Special Bulletin No. 159. 1933. 16 pages.

*Meat Canning in the Home.* University of Minnesota Agricultural Extension Division Folder No. 41. 1932. 4 pages.

*Use Home Grown Cereals, Wheat, Oats, Corn.* University of Minnesota Agricultural Extension Division Folder No. 43. 1933. 4 pages.

Home Demonstration Syndicate Feature. Issued by the University of Minnesota Agricultural Extension Service. Published weekly in 68 country weekly newspapers in Minnesota, 1932-33.

"What shall we eat this winter?" Series of 7 articles sent to about 200 weekly Minnesota newspapers.

Mimeographed and multigraphed outlines and subject-matter relative to clothing project work.

Advance and follow-up publicity prepared for newspapers in counties where clothing project is being carried.

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

*Secretary's Record Book.* University of Minnesota Agricultural Extension Division Minnesota Boys' and Girls' Clubs Bulletin No. 1. 1933. 32 pages.

*Manual for 4-H Club Leaders.* University of Minnesota Agricultural Extension Division Minnesota Boys' and Girls' Clubs Bulletin No. 18. 1933. 36 pages.

Editor, 4-H Club Department, *Minnesota Extension News.* 1932-33.

News items for papers on various phases of 4-H club work.

ROGER S. MACKINTOSH, M.S., Assistant Professor of Agricultural Extension and Exhibits Specialist

Editor, *Minnesota Horticulturist.* 1932-33.

MARY MAY MILLER, B.S., Assistant Professor of Agricultural Extension and Extension Specialist in Home Management

Home Demonstration Syndicate Feature. Issued by the University of Minnesota Agricultural Extension Service. Published weekly in 68 country weekly newspapers in Minnesota, 1932-33.

Mimeographed and multigraphed outlines and subject-matter material for use in home management project work.

Advance and follow-up publicity prepared for newspapers in counties where home management project is being carried.

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

*Wool—How To Improve Each Fleece.* University of Minnesota Agricultural Division Folder No. 36. 1932. 4 pages.

*Fattening Lambs for Market* (with W. H. Peters). University of Minnesota Agricultural Extension Division Folder No. 37. 1932. 8 pages.

*Stomach Worms in Sheep.* University of Minnesota Agricultural Extension Division Folder No. 42. 1933. 4 pages.

*Market Lamb Production.* The report of the 1932 Minnesota Lamb Production Contest. University of Minnesota Agricultural Extension Division Pamphlet No. 31. 1933. 5 mimeographed pages.

"Baby beef." The report of the 1932 Minnesota Carload Baby Beef Project. University of Minnesota Agricultural Extension Division Pamphlet No. 32. 1933. 4 mimeographed pages.

News items for newspapers on various phases of state extension livestock work.

GEORGE H. NESOM, B.S., Assistant Professor of Soils and Soils Specialist

"Valuable farm asset is often wasted." Sent to 20 weekly newspapers.

M. LOIS REID, B.S., Assistant Professor of Agricultural Extension and Extension Specialist in Clothing

Home Demonstration Syndicate Feature. Issued by the University of Minnesota Agricultural Extension Service. Published weekly in 68 country weekly newspapers in Minnesota, 1932-33.

Mimeographed and multigraphed outlines and subject-matter relative to clothing project work.

Advance and follow-up publicity prepared for newspapers in counties where clothing project is being carried.

W. BRUCE SILCOX, Ph.D., Assistant Professor of Agricultural Extension and Extension Specialist in Marketing

*The Agricultural Outlook for 1933* (with F. W. Peck). University of Minnesota Agricultural Extension Division Pamphlet No. 28, 1933. 8 pages.

"The price situation." Pages 4-9 in *Proceedings of the Fourth Annual Land Management Short Course*. University of Minnesota Bulletin, Vol. 36, No. 12. 1933.

"Factors reflecting the financial conditions of Minnesota creameries" (with L. L. Ulylot). *Minnesota Farm Business Notes*, No. 118. September 20, 1932. 4 mimeographed pages.

"Cooperative milk marketing problems in the Twin Cities" (with P. E. Quintus). *Minnesota Farm Business Notes*, No. 126. May 20, 1933. 5 mimeographed pages.

"Outlook interests both business men and farmers." *Agricultural Economics Extension*, No. 11. United States Department of Agriculture, Washington, D.C. February, 1933.

"How the price that creameries pay for butterfat is affected by the returns for the over-run." Sent to about 200 weekly newspapers in Minnesota, August, 1932.

"The dairy and poultry outlook." Sent to about 200 weekly newspapers in Minnesota, October, 1932.

"The next election." Sent to about 200 weekly newspapers in Minnesota, November, 1932.

"Feed-butter price ratio favors cows." Sent to about 200 weekly newspapers in Minnesota, December, 1932.

"Reasons why members should support their cooperative organizations" (with H. L. Harris). Series of articles prepared for use of co-operative organizations in newspapers of Lincoln and other counties, May, 1933.

"Marketing Minnesota eggs." Synopsis of marketing film strip. 1932. 18 mimeographed pages.

Advance and follow-up publicity for newspapers in counties where outlook and marketing meetings are held.

News items for papers on various phases of marketing extension work.

EVES 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 Service. Published weekly in 68 country weekly newspapers in Minnesota, 1932-33.

Mimeographed and multigraphed outlines and subject-matter relative to clothing project work.

Advance and follow-up publicity prepared for newspapers in counties where clothing project is being carried.

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

"Fenders save pigs." Sent to about 200 Minnesota weekly newspapers.

"Ton litter race open for club members." Sent to about 200 Minnesota weekly newspapers.

News articles sent to Western Newspaper Union on "Hog health pays fat dividends," "Fast maturity objective of 'U' sow testing plan," "Better sows wanted," "Selection and care of animals before slaughtering."

Report of Minnesota ton litter contest. 3 mimeographed pages.

Report of Minnesota pork production contest. 4 mimeographed pages.

Feeding and management of pigs for club members. 3 mimeographed pages.

DAN C. DVORACEK, B.S., Instructor in Agricultural Extension and Extension Specialist in Marketing

"Potato marketing in Minnesota." *Minnesota Farm Business Notes*, No. 125. April, 1933. 7 mimeographed pages.

News items for papers on various phases of state extension marketing work.

Advance and follow-up publicity material for use in counties where outlook and marketing meetings were being held.

HAROLD L. HARRIS, B.S., Instructor in Agricultural Extension and Extension Publicity Specialist

"The laziest of plants." *Nature Magazine*, Vol. 20, No. 1, p. 11. 1932.

"Simple rig saves labor in haymow." *Popular Mechanics*, Vol. 58, No. 1, p. 160. 1932.

"Control of raspberry crown gall." *Successful Farming*, Vol. 30, No. 6, p. 33. 1932.

"Field harvester banishes drudgery." *Ibid.*, Vol. 30, No. 8, p. 8. 1932.

"Scab-resistant barley." *Country Gentleman*, Vol. 102, No. 11, p. 59. 1932.

"An earlier, sweeter watermelon." *Ibid.*, Vol. 103, No. 2, p. 56. 1933.

"New flax immune to rust." *Ibid.*, Vol. 103, No. 4, p. 71. 1933.

"Tells feed value instantly." *Ibid.*, Vol. 103, No. 5, p. 55. 1933.

"Sweet corn hybrids excel." *Ibid.*, Vol. 103, No. 6, p. 54. 1933.

"Farm family partnerships." *Extension Service Review*, Vol. 3, No. 6, pp. 85, 86. 1932.

"Twelve years of windbreak planting" (with P. O. Anderson). *Ibid.*, Vol. 4, No. 1, p. 14. 1933.

"Grubworms may bother." *Farmer and Farm, Stock and Home*, Vol. 51, No. 8, p. 2. 1933.

"Reasons why members should support their cooperative organizations" (with W. Bruce Silcox). Series of articles prepared for use of co-operative organizations in newspapers in Lincoln and other counties. May, 1933.

Managing editor, *News Letter*. (Clip sheet of University Farm publicity, issued weekly for Minnesota weekly newspapers.)

Co-editor (with W. P. Kirkwood), *Minnesota Extension News*, 1932-33.

Co-editor (with W. P. Kirkwood), Syndicated feature to Western Newspaper Union. (Two columns of University Farm publicity to 75 weekly newspapers.)

"Publicity in home demonstration." December, 1932. 5 mimeographed pages.

"Publicity suggestion calendar for county extension workers." March, 1932. 24 mimeographed pages.

Prepared several hundred newspaper articles that were widely published in Minnesota.

Prepared for publication in various farm magazines, numerous articles signed by other staff members of the Agricultural Extension Division and Department of Agriculture.

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

*Bread Baking Project* (with Amy Wessel). University of Minnesota Agricultural Extension Division Minnesota Boys' and Girls' Clubs Bulletin No. 8. 1932. 12 pages.

*Cake Making Project* (with Amy Wessel.) University of Minnesota Agricultural Extension Division Minnesota Boys' and Girls' Clubs Bulletin No. 12. 1933. 8 pages.



*Room Furnishing Project* (with Amy Wessel). University of Minnesota Agricultural Extension Division Minnesota Boys' and Girls' Clubs Bulletin No. 14. 1933. 12 pages.

*Canning Project* (with Amy Wessel). University of Minnesota Agricultural Extension Division Minnesota Boys' and Girls' Clubs Bulletin No. 17. 1933. 11 pages.

Record blanks for the various home economics club projects.

News items for *Minnesota Extension News*.

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

*Bread Baking Project* (with Mildred Schenck). University of Minnesota Agricultural Extension Division Minnesota Boys' and Girls' Clubs Bulletin No. 8. 1932. 12 pages.

*Cake Making Project* (with Mildred Schenck). University of Minnesota Agricultural Extension Division Minnesota Boys' and Girls' Clubs Bulletin No. 12. 1933. 8 pages.

*Room Furnishing Project* (with Mildred Schenck). University of Minnesota Agricultural Extension Division Minnesota Boys' and Girls' Clubs Bulletin No. 14. 1933. 12 pages.

*Canning Project* (with Mildred Schenck). University of Minnesota Agricultural Extension Division Minnesota Boys' and Girls' Clubs Bulletin No. 17. 1933. 11 pages.

Record blanks for the various home economics club projects.

News items for *Minnesota Extension News*.

CHARLES C. GEDDES, Assistant in Agricultural Extension and Assistant in Dairy Herd Improvement Work

*Dairy Herd Improvement News Letter* (with R. Leighton). Issued monthly. 8 multigraphed pages.

RAMER LEIGHTON, Assistant in Agricultural Extension in Charge of Dairy Herd Improvement

*Dairy Herd Improvement News Letter* (with C. C. Geddes). Issued monthly. 8 multigraphed pages.

News items for newspapers on various phases of dairy herd improvement work.

## SCHOOL OF AGRICULTURE

JOHN O. CHRISTIANSON, B.A., Principal of the School of Agriculture and Assistant Professor

*Come to the School of Agriculture*. St. Paul: University of Minnesota School of Agriculture. June, 1932; February, 1933. 4 pages.

"The School of Agriculture is the door to leadership." *4-H Broadcaster*, Vol. 4, No. 12, p. 1. 1933.

"Just blindness." *American Teacher*, Vol. 17, No. 6, p. 600. 1933.

"History of the School of Agriculture." *Agrarian*, p. 19. 1933.

PHILIP A. SWENSON, B.S., Assistant in the School of Agriculture

Abstract of *A Method for Studying the Question of Stripping Following Machine Milking* (with William E. Petersen). p. 5 in *Abstracts of the Twenty-seventh Annual Meeting of the American Dairy Science Association*. 1932.

## THE LAW SCHOOL

EVERETT FRASER, B.A., LL.B., Dean of the Law School

*Cases and Readings on Property*, Vol. I. Chicago: Commerce Clearing House, Inc. 1932. 511 pages.

RALPH H. DWAN, B.A., LL.B., S.J.D., Professor of Law

Reviews of

*Report by the Committee To Study Compensation for Automobile Accidents to the Columbia University Council for Research in the Social Sciences in Minnesota Law Review*, 17:235-36. January, 1933.

D. J. Gallert, W. S. Hilborn, and G. May, *Small Loan Legislation* in *ibid.*, 17:835. June, 1933.

Editor-in-chief, *Minnesota Law Review*. 1932-33.

HENRY L. McCLINTOCK, Ph.B., LL.B., S.J.D., Professor of Law

Reviews of

C. W. Everett, *The Education of Jeremy Bentham* in *Minnesota Law Review*, 17:236. January, 1933.

B. Karpman, *Case Studies in the Psychopathology of Crime* in *ibid.*, 17:564-66. April, 1933.

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

"State jurisdiction to impose taxes." *Yale Law Journal*, 42:305-32. January, 1933.

"The income tax and the replacement idea." *Bench and Bar of Minnesota*, Vol. 2, No. 2, pp. 1-3. 1933.

Reviews of

W. J. Shultz, *American Public Finance and Taxation in University of Pennsylvania Law Review*, 81:361-63. January, 1933.

L. B. Boudin, *Government by Judiciary* in *Minnesota Law Review*, 17:682-84. May, 1933.

C. M. Clay, *Regulation of Public Utilities* in *ibid.*, 17:686-88. May, 1933.

C. G. Haines, *The American Doctrine of Judicial Supremacy* in *ibid.*, 17:832-34. June, 1933.

Abstracts in *Social Science Abstracts*, Vol. 4, 1932. Nos. 10024, 10025, 10026, 17050, 17092, 17096, 17266.

WILLIAM L. PROSSER, B.A., LL.B., Assistant Professor of Law

"The making of a contract of insurance in Minnesota." *Minnesota Law Review*, 17:567. 1933.

Reviews of

L. Vold, *Handbook of the Law of Sales* in *Minnesota Law Review*, 17:349-50. February, 1933.

G. L. Phillips, *Code Pleading* in *ibid.*, 17:830-32. June, 1933.

## THE MEDICAL SCHOOL

## ANATOMY

RICHARD E. SCAMMON, Ph.D., Dean of Medical Sciences and Professor of Anatomy

"Measurement and analysis of human growth" (with Edith Boyd). Pages 233-44 in *White House Conference on Child Health and Protection: Report of the Committee on Growth and Development. Part IV. Appraisal of the Child, Section II, Physical Status*. New York: Century Co. 1932.

- "The skeletal or voluntary musculature." Pages 19-25 in *White House Conference on Child Health and Protection: Report of the Committee on Growth and Development, Part II, Anatomy and Physiology*. New York: Century Co. 1933.
- "The central nervous system." Pages 176-86 in *ibid.*
- "The circulatory system: anatomical." Pages 262-70 in *ibid.*
- "The genito-urinary system" (with Henry F. Helmholz, E. K. Marshall, Jr., and C. G. Hartman). Pages 506-31 in *ibid.*
- "Increments of growth." Pages 609-18 in *ibid.*
- "What is guild medicine?" *Minnesota Medicine*, 16:164-70. 1933.

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

- "Constitutional anatomy of the second decade: The problem of types." Pages 40-45 in *Proceedings of the Conference on Adolescence*. Brush Foundation and Western Reserve University, Cleveland, Ohio. 1930.
- "Structural changes when growth is suppressed by undernourishment in the albino rat." *American Journal of Anatomy*, 51:347-79. 1932.
- "Obituary. Thomas George Lee." *Science*, 76:378-79. 1932; *Anatomical Record*, 55:158-59. 1933.
- "The weights of the various organs in adult rats after inanition with or without the dietary accessories" (with C. E. McLennan). *Anatomical Record*, Vol. 55, No. 4 (supplement), p. 22. 1933; *Archives of Pathology*, 15:636-48. 1933.
- Review of Gordon Townsend Bowles, *New Types of Old Americans at Harvard and at Eastern Women's Colleges* in *Anatomical Record*, 55:319-22. 1933.

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

- Laboratory Guide to Course in Embryology*. University of Minnesota Mimeograph Department. 1933. 52 pages, 53 figures.
- "The problem of the double ductus choledochus (an interpretation of an accessory bile duct found attached to the pars superior of the duodenum)." *Anatomical Record*, 55:71-93. 1932.
- "The reaction of the human gall bladder to faradic stimulation of the intestinal tract." *Ibid.*, Vol. 55, No. 4 (supplement), p. 8. 1933.
- "Observations on the anatomy and function of the gall bladder in children" (with Alice H. Fuller). *Ibid.*, Vol. 55, No. 4 (supplement), p. 16. 1933.
- "Species differences in the reactions of the mammalian gall bladder." (Proceedings of the American Physiological Society.) *American Journal of Physiology*, 54:10. 1933.
- Managing editor, *Anatomical Record*. 1932-33.

HAL DOWNEY, Ph.D., Professor of Anatomy

- "Present day knowledge of blood cell formation and pathology." *Journal of the Iowa State Medical Society*, 22:477-86. 1932.
- "The hematology of erythroblastic anemia" (with K. Kato). *Folia Haematologica*, 50:55-67. 1933.
- American editor, *Folia Haematologica* (Leipzig). 1932-33.

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

- "Interstitial cells of the testis." Pages 1674-1725 in *Special Cytology* (2nd ed.), Vol. 3, Sec. 42. New York: P. B. Hoeber. 1932.
- "The incidence of tubular glands and concretions in the adult human hypophysis cerebri." *Anatomical Record*, 55:139-49. 1933.
- "The relative number of the different types of cells in the adult human female hypophysis." *Ibid.*, Vol. 55, No. 4 (supplement), p. 34. 1933.
- "Origin and course of the fasciculus uncinatus (Russell) in the cat, with observations on other fiber tracts arising from the cerebellar nuclei." *Journal of Comparative Neurology*, 57:165-97. 1933.

Review of Josef Schaffer, *Lehrbuch des Histologie und Histogenese in Archives of Internal Medicine*, 51:817-18. 1933.

Abstracts of articles of endocrine interest in *Zeitschrift für Anatomie und Entwicklungsgeschichte*, *Zeitschrift für Konstitutionslehre*, and *Ergebnisse der Anatomie und Entwicklungsgeschichte* in *Endocrinology*, Vols. 16 and 17. 1932-33.

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

"Human variations. (a) An anomalous subscapular artery. (b) Triplicate parotid duct." *Anatomical Record*, Vol. 55, No. 4 (supplement), p. 68. 1933.

Abstracts in *Biological Abstracts*.

RAYMOND F. BLOUNT, Ph.D., Instructor in Anatomy

"The circulatory system of urodele larvae as altered by pituitary rudiment implants." *Anatomical Record*, Vol. 55, No. 4 (supplement), p. 7. 1933.

"Total growth and body proportions as influenced by pituitary rudiment implantation and extirpation in urodele embryos." *Ibid.*, Vol. 55, No. 4 (supplement), p. 46. 1933.

CLAY B. FREUDENBERGER, Ph.D., Instructor in Anatomy

"The incidence of middle-ear infection in the Wistar albino and the Long-Evans hybrid strain of the Norway rat." *Anatomical Record*, 54:179-84. 1932.

"Variability in body length, body weight and organ weights of the rat." *Ibid.*, 56:47-56. 1933.

CHARLES M. BLUMENFELD, Ph.D., Teaching Fellow in Anatomy

"The effects of vitamin E deficient and fat deficient diets on the suprarenal glands of the albino rat." *Anatomical Record*, Vol. 55, No. 4 (supplement), p. 8. 1933.

JOHN J. LAWLESS, M.S., Teaching Fellow in Anatomy

"The effect of castration, with and without removal of the epididymis in the rat." *Anatomical Record*, Vol. 55, No. 4 (supplement), p. 25. 1933.

ISADORE J. PASS, B.A., Teaching Fellow in Anatomy

"The connections of nucleus dorsalis (Clarke's column) in the cat." *Anatomical Record*, Vol. 55, No. 4 (supplement), p. 73. 1933.

HAROLD E. ROE, Ph.D., Teaching Fellow in Anatomy

"The weight of the skin and tela subcutanea of the human fetus." *Anatomical Record*, 55:127-37. 1933.

SAM I. STEIN, Ph.D., Teaching Fellow in Anatomy

"The hypophysis cerebri of the white rat in pregnancy." *Anatomical Record*, Vol. 52, No. 1 (supplement), pp. 36-37. 1932.

Experimental Studies on the Hypophysis Cerebri.

"I. Effect of single pregnancy in the albino rat." *Endocrinology*, 17:187-98. 1933.

"II. The effect of castration in the male albino rat." *Anatomical Record*, 56:15-29. 1933.

## BACTERIOLOGY AND IMMUNOLOGY

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

"The relation of disease to wild life cycles" (with J. E. Shillinger). *Transactions of the Nineteenth American Game Conference*, pages 432-36. 1932.

"A natural infection of the sharp-tailed grouse and the ruffed grouse by *Pasteurella tularensis*" (with J. E. Shillinger). *Proceedings of the Society for Experimental Biology and Medicine*, 30:284-87. 1932.

"Game cycles and disease." *Minnesota Waltonian*, Vol. 4, Pt. 7, pp. 4, 5, 12. April, 1933.

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

"Studies of freshwater bacteria: I. A direct microscopic technique." *Journal of Bacteriology*, 25:277-86. 1933.

"A pleomorphic organism showing relationships between staphylococci and actinomycetes" (with Milan V. Novak). *Journal of Infectious Diseases*, 52:253-67. 1933.

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

*Quantitative Bacteriology* (with N. R. Ziegler). Minneapolis: Burgess Publishing Co. 1933. 64 mimeographed pages.

"Application of statistics to problems in bacteriology: I. A means of determining bacterial population by the dilution method" (with N. R. Ziegler). *Journal of Bacteriology*, 25:101-21. 1933.

CHARLES E. SKINNER, Ph.D., Instructor in Bacteriology

"Production of vitamin A by a species of *Corynebacterium*" (with M. F. Gunderson). *Journal of Biological Chemistry*, 97:53-56. 1932.

"The soil as a habitat for growth of green algae." *Soil Science*, 34:25-28. 1932.

"The utilization of citrates and the fermentation of cellobiose by strains of *Bacterium coli* isolated from human faeces" (with H. G. Brudnoy). *Journal of Hygiene*, 32:529-34. 1932.

"Isolation in pure culture of green algae from soil by a simple technique." *Plant Physiology*, 7:533-37. 1932.

"Suggestions for growing mass cultures of algae for vitamin and other physiological study" (with M. F. Gunderson). *Ibid.*, 7:539-40. 1932.

MILLARD F. GUNDERSON, Ph.D., Teaching Fellow in Bacteriology

"Production of vitamin A by a species of *Corynebacterium*" (with C. E. Skinner). *Journal of Biological Chemistry*, 97:53-56. 1932.

"Suggestions for growing mass cultures of algae for vitamin and other physiological study" (with C. E. Skinner). *Plant Physiology*, 7:539-40. 1932.

"Presence of *Clostridium botulinum* in livers not affected with botulism." *Proceedings of the Society for Experimental Biology and Medicine*, 30:747-50. 1933.

## MEDICINE

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

"Myxedema heart." *American Heart Journal*, 8:91-101. 1932.

"Hemodynamics of arteriosclerosis; influence of change of coefficient of volume elasticity on circulation" (with J. C. Davis, A. C. Kerkhof, E. K. Giere, and P. Hallock). *American Journal of Physiology*, 101:376-90. 1932.

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

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#### EMPLOYMENT STABILIZATION RESEARCH INSTITUTE

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- Mimeographed materials on "filing" prepared for classes.
- AGNES A. KEAN, B.S., Instructor in Shorthand, Business English, and Office Practice in Commercial Training Course
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