

Minutes Minutes

May 23, 1928

Graduate Group Committee for Agriculture

The following actions have been taken by the Chairman to date:

- #1. As per the last minutes of the Graduate Group Committee for Agriculture, the Chairman approved the petition of Harvey E. Shuman for the transfer of credits from Michigan Agricultural College to the Graduate School of the University of Minnesota, the transfer not to exceed the equivalent of two quarters of residence and the mathematics not to count for graduate credit. (Approved April 3, 1928) (Major, Plant Genetics)
- #2. The thesis title of L. E. Jorgensen, major Plant Genetics, minor Plant Pathology, degree Ph.D., thesis title, "Brown Mildew in Maize and Its Linkage Relations", approved, and committee appointed as follows: H. K. Hayes, chairman, E. G. Stakman, E. H. Freeman, G. O. Rosendahl, and F. J. Stevenson (Approved March 30, 1928).
- #3. The thesis title of Alfred A. Slann, major Agricultural Biochemistry, minor Plant Physiology, degree Ph.D., thesis title, "A Study of the Role of Protective Colloids in Digestive Processes", approved, and committee appointed as follows: E. A. Sertner, chairman, G. H. Bailey, G. O. Furr, J. F. McMillan, L. S. Parker (Approved April 3, 1928).
- #4. Because of the absence in Europe of Drs. Harvey, Hoyerer, and Willman, the following substitutions were made on the committee for J. ALEX BORN (approved April 21, 1928):

Thesis committee: G. O. Furr for E. B. Harvey
 Rosendahl " : H. W. Taylor " L. H. Hoyerer
 W. M. Sandstrom for J. J. Willman
- #5. The three-year program of Allen Dinwiddie Robinson, major Agricultural Biochemistry, minor Plant Physiology, adviser E. A. Sertner, approved April 26, 1928.
- #6. The thesis title of Allen Dinwiddie Robinson, major Agricultural Biochemistry, minor Plant Physiology, degree Ph.D., thesis title, "A Study of the Protein - Protein Transformation", approved, and committee appointed as follows: E. A. Sertner, chairman, G. O. Furr, J. A. Harris, J. F. McMillan, G. H. Bailey, (Approved April 26, 1928).
- #7. The thesis title of E. Ernest Anderson, major Plant Pathology, minor Entomology, degree M.S., thesis title, "The Effect of Disinfecting Seed of Sweet Corn", approved, and committee appointed as follows: E. G. Stakman, chairman, A. G. Haggles, and J. J. Christensen (Approved May 23, 1928).
- #8. The thesis title of Edith E. Lindberg, major Plant Pathology, minor Silviculture, degree M.S., thesis title, "The Effect of Seed-Rotting Fungi on Physical Properties of Certain Woods", approved, and committee appointed as follows: E. G. Stakman, chairman, Harry Sandits, and E. H. Brown (Approved May 23, 1928)

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- #9. The thesis title of Harva Miller Neal, major Agricultural Biochemistry, minor Dairy Husbandry, degree Ph.D., thesis title, "The Major Mineral Constituents of the Skeletal Structure of Mammals as Influenced by Age and Nutrition", approved, and committee appointed as follows: L. S. Palmer, chairman, G. H. Bekies, J. F. McLendon, R. A. Gortner, and W. E. Combs (Approved May 23, 1928).
- #10. The three-year program of Harva Miller Neal, major Agricultural Biochemistry, minor Dairy Husbandry, advisor L. S. Palmer, approved May 23, 1928.
- #11. The petition of H. E. Spies, major Agricultural Biochemistry, for the transfer of credits in a course in Physical Chemistry at the University of Manitoba (2 lectures per week throughout the academic year with 6 hours per week in the laboratory) to the records of the Graduate School of the University of Minnesota, amounting to 12 quarter credits, approved May 23, 1928.
- #12. The three-year program of Paul R. Peterson, major Plant Pathology, minor Plant Physiology, advisor E. G. Stakman, approved May 23, 1928.
- #13. The course of study proposed by Dr. Leichnearing for Marion E. Dunbar, major Home Economics, minor Child Welfare, degree M.S., approved as follows:

Major: Home Economics

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| H.E. 103, Nutrition of the Family | 3 cr. |
| H.E. 104, Nutrition II | 5 cr. |
| H.E. 150, Nutrition in Disease | 3 cr. |
| H.E. 205, Nutrition Seminar | 3 cr. |

Minor: Child Welfare

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| Anat. 133, 134, 135, Anat. of Fetus and Child | 3 cr. |
| G.W.I. 133, 134, 135, Observational and Exper. Methods in the Study of the Young Child | 6 cr. |
| G.W.I. 230, 231, 232, Seminar in the Development of the Young Child | 3 cr. |
| Psy. 114, 115, Human Behavior | 6 cr. |

- #14. The petition of Marion E. Dunbar, major Home Economics, to transfer the following courses from the Graduate School of the University of Chicago to the records of the Graduate School of the University of Minnesota, approved May 23, 1928:

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|-----------------------------------|-----------|-----------------|
| Dietaries | 1/2 major | (2 1/2 credits) |
| Readings in Nutrition | 1/2 " | (2 1/2 credits) |
| Field Work in Dietaries | 1 " | (5 credits) |
| Child Care: Maternity and Infancy | 1/2 " | (2 1/2 credits) |

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The following thesis titles approved and committees appointed,
May 23, 1928:

- #15. Hilbert E. Anderson, major Farm Management, minor Plant Genetics, degree M.S., thesis title, "The Growth and Status of Farm Tenancy in Minnesota with Suggestions as to Desirable Farm Leases", committee, Andrew Deen, chairman, H. K. Hayes, J. V. Post.
- #16. L. G. Bradford, major Plant Pathology, minor Plant Genetics, degree Ph.D., thesis title, "The Control of Cereal Rusts by Means of Fungicides", committee, E. G. Stakman, chairman, H. K. Hayes, A. G. Haggies, J. J. Christensen, and F. K. Butters.
- #17. Marjorie Dietrich, major Home Economics, minor Home Economics Education, degree M.S., thesis title, "A Comparative Study of Some Properties of a Group of Woven Fabrics", committee, Ethel L. Phelps, chairman, Marion Waller, W. S. Miller.
- #18. Flannan A. Keller, major Home Economics, minor Agricultural Biochemistry, degree M.S., thesis title, "A Study of Bound and Free Water in Meat", committee, Alice M. Child, chairman, E. A. Gertner, William Robinson.
- #19. Paul D. Ferguson, major Plant Pathology, minor Plant Physiology, degree Ph.D., thesis title, "Reactions of Selfed Lines of Corn to Root Rot Caused by *Gibberella umbinettii* (Mont) Sacc.", committee, E. G. Stakman, chairman, J. S. Leach, H. K. Hayes, U. O. Rosendahl, G. O. Burr.

E. A. Gertner, Chairman

MINUTES
Graduate Group Committee for Agriculture
March 26, 1928

The Graduate Group Committee for Agriculture met at 5:00 P.M.,
Monday, March 26, 1928.

Present: Mr. Gardner presiding, Dean Freeman, Dr. Schultz,
Miss McNeal, Dr. Gagnan, Dr. Jordan

The chairman reported the following items as having been approved since the last meeting of the committee:

#1. The addition of Professor H. J. Fazzia to the committee of H. A. Williams to act as chairman in place of Professor V. H. Peters, Professor Peters to remain on the committee as a fourth member, approved February 25, 1928.

#2. The petition of Montella Dietrich, as per authorization in last minutes, for the transfer of the following credits from the University of Missouri to the records of the Graduate School of the University of Minnesota, approved March 1, 1928:

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|---|------------------------------------|
| 2 | semester credits in Horse Planning |
| 3 | " " " Dress Design |
| 2 | " " " Home Economics Seminar |
| 2 | " " " Home Economics Extension |
| 2 | " " " Home Economics Extension |

#3. Thesis title of Alvin H. Basker, major Agricultural Biochemistry, minor Chemical Engineering, degree E.S., thesis title, "A Chemical Study of Butyrum Fermenting Quality in Bergman Fryg's, adviser J. J. Williams, (Dr. A. Gardner, acting adviser), committee, J. J. Williams, Chairman, E. A. Gardner, G. A. Hunt, R. E. Hartman, approved March 16, 1928.

#4. The chairman reported the following actions of the Executive Committee of the Graduate School on matters which originated with this committee:

a. "In connection with the cases of John Glyn Williams and Stanley Burthside, the question was raised of reduction of the three quarters residence requirement for the Master's degree since these men held Summerwell fellowships, and it was regarded by their sponsors as desirable that they should have experience in more than one school. It was the consensus of opinion that these cases differed in no essential way from those of many the year making similar requests for reduction of this requirement, and that such reduction could not be allowed."

b. "The question of permitting registration for an advanced degree in the field of Agricultural Engineering was considered and it was held that any student wishing to do such work be required to register in the College of Engineering."

c. "On behalf of the Graduate Group Committee for Agriculture, Dr. Gardner raised the question regarding limitation of certain phases where a considerable expenditure of funds and facilities were involved. The Group Committee suggested that Legend a case

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a statement in the department announcement in the Graduate School Bulletin to the effect that "major work may be taken in such and such a field only by prearrangement with the department concerned" be permitted. It appearing on discussion that a considerable number of departments might face similar difficulties, it was voted to approve the limitation by any department of the number of graduate students to such as can be accommodated by the facilities of the department concerned.

- d. "There was also referred from the Graduate Group Committee for Agriculture the following request from the Committee on Advanced Training for County Agents of the Minnesota County Agents' Association.

"In view of the widespread sentiment among the seventy county agricultural extension agents in Minnesota for taking advanced training in order to provide desirable improvement in the extension service, and to advance their own education, take this opportunity of making a request relative to the availability of graduate study in this University.

"In order to form a basis of consideration of this subject, the committee representing the county agents' association respectfully request that the last six weeks' work in any academic quarter in the graduate school be recognized as the equivalent of a summer session term as a basis for residence work, provided that the work of the other six weeks in that quarter is completed in absentia to the satisfaction of the instructors of the courses taken."

"In view of the fact that a limited number and those of exceptional cases would be affected, the arrangement seemed feasible and desirable and was approved by the committee."

The following new business was transacted:

- #5. The thesis title of Ernest E. Glendon was approved and committee appointed, major Farm Management, minor Agricultural Economics, degree M.S., thesis title, "Production Factors and Standards for Minnesota Agriculture", committee, Andrew Boss, chairman, H. B. Price, and Henry Schmitt.
- #6. The thesis title of William McKimley Martin was approved and committee appointed, major Agricultural Biochemistry, minor Organic Chemistry, degree Ph.D., thesis title, "A Study of Surface Energies with Particular Reference to Plant Growth", committee, R. A. Gortner, chairman, W. H. Hunter, J. Arthur Harris, G. C. Burr, William Robinson.

The following three-year programs were approved:

- #7. The three-year program of William McKimley Martin, major Agricultural Biochemistry, minor Organic Chemistry, adviser R. A. Gortner.
- #8. The three-year program of Harold L. Thoms, major Plant Genetics, minor Botany, adviser H. E. Huges.

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9. The petition of H. J. Simons to change his minor from Plant Pathology to Botany (major Agronomy) was approved.

10. The petition of Emmett Y. Staker for the transfer of the following credits in graduate work at Utah Agricultural College to the records of the Graduate School of the University of Minnesota, was granted with the understanding that this is in reality the formal recognition of the fact that Mr. Staker already has a Master's degree and that few, if any, of the credits noted in the petition will be necessary for the completion of his Doctorate program at Minnesota: (major Agricultural Biochemistry)

| | | | |
|--------------------------------|-----------|---------|---------|
| Organic Chemistry 111-112 | 8 | quarter | credits |
| Plant Pathology (Bot. 130-131) | 8 | " | " |
| Taxonomy (Bot. 101) | 4 | " | " |
| Ecology (Bot. 229) | 4 | " | " |
| Plant Physiology (Bot. 120) | 3 | " | " |
| Agronomy 117-213-215 | 9 | " | " |
| Total | <u>36</u> | " | " |

11. The petition of Ernest E. Thomas for the transfer of credits from Michigan State College was referred to the chairman of the committee with power to take up with Dr. Hayes (adviser) the question of this petition, inasmuch as it appeared questionable that any of the courses taken at Michigan State College were of graduate caliber. Action on this petition will be reported in the next minutes.

12. The chief business of the Committee was to act upon fellowship applications. Forty-eight applications came before the Committee, as per the attached list. These were finally reduced to a considerably smaller number and the entire Committee voted by secret preferential ballot on the selected candidates. The following persons were recommended for the three fellowships available:

Peter Lvovitch Dulim for the Shevlin Fellowship for 1928-29

Address: Box 1012, University Farm, St. Paul, Minnesota

Age: 35 years

Education: "Agr. Ingenieur", The Agricultural College in Brno, Czechoslovakia, 1922

M.S., Pennsylvania State College, 1925

William McKinlay Martin for a Caleb Dorr Fellowship for 1928-29

Address: Division of Agricultural Biochemistry, University Farm, St. Paul, Minnesota

Age: 32 years

Education: B.S.A., University of Alberta, 1924

M.Sc., " " " " , 1926

Positions Held: Research Assistant, Dept. of Plant Biochemistry, University of Alberta, 1923-24 and summers of 1924 and 1925

Assistant, Division of Agricultural Biochemistry, University of Minnesota, spring 1927 -

Field Assistant, Division of Alkali and Brought Resistant Plant Investigations, U.S.D.A., summer 1927.

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Ernest Maria King for a Galeb Derr Fellowship for 1928-29

Address: University of Saskatchewan, Saskatoon, Saskatchewan, Can.

Age: 32 years

Education: B.S., Montana State College, 1920

M.S., University of Saskatchewan, 1926

Positions Held: Assistant, Montana Experiment Station, Summers of 1916, '17, '19, and part time in winter
Student Instructor, Montana State College
Scientific Assistant, U. S. Bureau of Entomology, 1920-22
Entomologist, in charge for Saskatchewan, Canada Entomological Branch, 1922 - to date.

The following persons were recommended as first and second alternates, respectively:

Kathleen Sarah Dietrich, Division of Home Economics, University Farm, St. Paul, Minnesota

Charles Fletcher Mackay, Department of Botany, Colorado Agricultural College, Fort Collins, Colorado

- ¶13. An informal discussion followed, in which various questions were raised and discussed in regard to certain Graduate School problems, but no formal action was taken on any of the items.

The Committee adjourned.

R. A. Gortner
Chairman

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Notices to the Board

MINUTES
Graduate Group Committee for Agriculture
February 2, 1928

The Graduate Group Committee for Agriculture met at 9:00 A.M., Thursday, February 2, 1928.

Present: Mr. Gortner presiding, Miss McNeal, Dr. Schmitt, Dean Freeman, Dr. McKee, and Dr. Chapman

#1. The chairman called attention to the situation of the Galeb Berr funds for next year, as per attached letter from Dean Coffey under date of December 20, 1927, but pointed out that he had ascertained that the decrease of the Galeb Berr funds would not affect Graduate School funds. (Note attached communications.)

#2. The chairman called attention to the fact that recipients of Shovlin and Galeb Berr graduate fellowships have in the past, in a number of instances, not received official notification from the President's Office of the award of such fellowships and that when such notifications have been sent they have been on the same sort of blanks that are used in notifying staff members of appointment to Teaching Faculty or Experiment Station positions.

It was the feeling of the committee that the recipients of these graduate fellowships should receive some sort of certificate from the University, commensurate with the honor which is attached to appointment to one of these graduate fellowships. Dean Freeman was appointed a committee of one to take up this question with the Administration and to see whether or not an appropriate recognition of award could not be made by the University.

#3. The chairman reported that at about the middle of the Fall Quarter there were 146 graduate students registered as majoring on the Agricultural Campus, the distribution of these students being as follows:

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|---------------------------|------------|
| Home Economics | 16 |
| Agricultural Economics | 26 |
| Animal Husbandry | 2 |
| Dairy Husbandry | 14 |
| Entomology | 15 |
| Farm Management | 8 |
| Agroonomy | 3 |
| Plant Genetics | 7 |
| Forestry | 7 |
| Horticulture | 1 |
| Plant Pathology | 20 |
| Soils | 3 |
| Agricultural Biochemistry | 2 |
| | <u>146</u> |

44. Professor Makles raised the question as to the possibility of limiting registration in certain phases of graduate work in the Dairy Division. He pointed out that a student taking a thesis problem along certain fields of dairy work, particularly dairy production, where animal experimentation is essential, require in some instances an expenditure of more than \$1000 for animal supervision and care, and that in any instance the cost of such a thesis would run into several hundred dollars. He pointed out that facilities are limited for such work and that the expense item makes it prohibitive to furnish such facilities to all who may wish to do their thesis work along this line (although the facilities at Minnesota are probably as good or better than facilities in other agricultural institutions).

The chairman was instructed to take the matter up with the Executive Committee of the Graduate School and to ascertain if it would be permissible to incorporate in the introductory paragraph of the Departmental Announcement in the Graduate Bulletin, a statement to the effect that, "Major work may be taken in such and such a field only by pre-arrangement with the department concerned," in which case credentials must be furnished and application for such work must be made prior to the student's coming to Minnesota for the purpose of registering.

The discussion on this proposition indicated that such action would be desirable not only from the standpoint of the Dairy Division but also from the standpoint of other divisions on this campus where either limited facilities or excessive cost prevent very many thesis problems being conducted in any one field during any one year. It was felt that a department should have the right to limit the number of graduate students taking graduate problem work in any one year.

45. The chairman reported the approval of thesis title and appointment of committee for Frederick H. Holdaway as follows: major Entomology, minor Zoology, degree Ph.D., thesis title, "A Study of Humidity as a Factor in Insect Environment with Especial Reference to *Tribolium confusum*", committee, R. H. Chapman, G. O. Burr, D. H. Minnich, W. A. Kiley, and H. A. Gertner.

This action had already been taken by the Graduate Group Committee for the Biological Sciences, but should have been taken by this committee. Accordingly the necessary information is recorded in our minutes as simply for purposes of record.

46. The chairman reported approval on December 12, 1927 of thesis title and appointment of thesis committee for Walter J. Rath as follows: major Farm Management, minor General Economics, degree Ph.D., thesis title, "The Wheat Crop in its Relation to the Development of Farming in the Spring Wheat Region", committee, Andrew Ross, chairman, G. H. Bailey, H. B. Price, F. B. Carver, W. G. Goffey.

47. The chairman reported approval of Home Economics Course 134, Home Management Problems, to be taught in the Summer Session by Mrs. Mildred Haisley Wood, and Home Economics Course 146, Home Economics' Relation to Education and Social Movements, to be taught by Miss Ella J. Rose in the Summer Session.

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- #8. The committee approved appointment of Mrs. Mildred Weigley Need to the Summer Session (1923) teaching staff of the Graduate School for the Division of Home Economics.
- #9. The committee approved the appointment of Miss Ella J. Rose, Assistant Professor of Home Economics, to have charge of the Home Economics Course 146 (for course work only).
- #10. The chairman reported correspondence with Dean Ford in regard to the possibility of a candidate for the Master's degree satisfying residence requirements at Minnesota with less than three quarters at Minnesota, providing a considerable amount of time had been spent in other institutions. No action was taken.
- #11. The petition of Montell B. Districh for transfer of credits from the Graduate School of the University of Missouri was referred by the committee to Miss McNeal for further recommendation. The question raised was as to whether or not the work taken at the University of Missouri was of the type offered in the University of Minnesota as graduate work or whether it was essentially undergraduate work in our present curriculum.
- #12. The petition of Halter Stanley Gunnison, major Dairy Husbandry, adviser G. H. McKies, for exemption from the language requirement for the Master's degree, was approved.
- #13. The petition of Ernest Q. Hays, major Dairy Husbandry, adviser G. H. McKies, for exemption from the language requirement for the Master's degree, was approved.
- #14. The petition of Diederick J. Schutte, major Dairy Husbandry, adviser G. H. McKies, for exemption from the language requirement for the Master's degree, was approved.
- #15. The three-year program of Kenneth H. Hasty, major Plant Genetics, minor Plant Pathology, adviser H. K. Hayes, was approved.
- The following thesis titles were approved and thesis committees appointed:
- #16. E. H. Riddell, major Dairy Husbandry, minor Agricultural Biochemistry, degree Ph.D., thesis title, "The Relation of Phosphorus Intake to the Utilization of Food", committee, G. H. McKies, chairman, L. S. Palmer, J. F. McIlinden, H. F. Ferrin, and W. B. Gault.
- #17. William Q. Whitcomb, major Plant Genetics, minor Agricultural Biochemistry, degree Ph.D., thesis title, "Studies of Inheritance of Proteins in Wheat", committee, H. K. Hayes, chairman, G. H. Bailey, A. G. Army, J. H. Beaumont, H. A. Gertner.
- #18. Paul H. Bickendorfer, major Agricultural Biochemistry, minor Physical Chemistry, degree M.S., thesis title, "A Comparative Study of Protein Peptidation in a Series of Wheat Flours", committee, H. A. Gertner, Chairman, F. H. MacDougall, and G. H. Bailey.

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- #19. HARVEY E. SHAN, major Forestry, minor Zoology, degree M.S., thesis title, "A Comparative Study of the Physical Properties, Chiefly Shrinkage, of Sapwood and Heartwood of our Northern Pines", committee, J. P. Wentling, W. S. Cooper, and Henry Schmitz.
- #20. Walter Stanley Cunningham, major Dairy Husbandry, minor Agricultural Biochemistry, degree M.S., thesis title, "Normal Variations in the Inorganic Phosphorus Content of the Blood of Cattle", committee, G. H. McKies, L. S. Palmer, and G. P. Fitch.
- #21. E. S. BUNNICK, major Animal Husbandry, minor Agricultural Economics, degree M.S., thesis title, "Utilization of Barley as a Grain in the Fattening of Cattle", committee, W. H. Peters, chairman, H. B. Price, H. F. Ferrin.
- #22. Paul E. Dury, major Dairy Husbandry, minor, Agricultural Biochemistry, degree M.S., thesis title, "The Relation of Frenchwood (*Thlaspi arvense*) and Mustard (*Brassica arvensis*) to the Market Qualities of Dairy Products", committee, E. G. McKies, chairman, L. S. Palmer, W. B. Combs.
- #23. Ernest T. Brigham, major Forestry - Plant Physiology, minor Botany (Zoology), degree M.S., thesis title, "Some Effects of Low Temperature on Certain Tree Seeds and Seedlings", committee, E. G. Cheney, chairman, R. B. Harvey, W. S. Cooper, Henry Schmitz.
- #24. Hilmer J. Hansen, major Dairy Husbandry, minor Agricultural Biochemistry, degree M.S., thesis title, "The Cause and Prevention of the Butter Defect Known as Grumbly Butter", committee, G. H. McKies, chairman, W. B. Combs, L. S. Palmer.
- #25. Ernest S. Kaurid, major Dairy Husbandry, minor Agricultural Biochemistry, degree M.S., thesis title, "The Upper Limits of Economical Milk Production", committee, G. H. McKies, chairman, L. S. Palmer, Andrew Hess.
- #26. Ivan D. Jones, major Agricultural Biochemistry, minor Plant Physiology, degree M.S., thesis title, "A Comparison of Methods for Determination of Bound-Water in Plant Tissue", committee, R. A. Gertner, chairman, G. O. Burr, William Robinson.
- #27. Ann Macomber, major Home Economics, minor Agricultural Biochemistry, degree M.S., thesis title, "Factors Influencing Shrinkage in Meat. III. A Study of Bound and Free Water in Meat Tissue," committee, Alice H. Child, chairman, R. A. Gertner, Alice Biester.
- #28. William Grant McGraw, major Plant Genetics, minor Plant Pathology, degree M.S. thesis title, "Linkage Studies in Barley", committee, H. E. Hayes, chairman, E. G. Stakman, G. O. Rosendahl.
- #29. Ernest E. Paxon, major Plant Pathology, minor Plant Physiology, degree M.S., thesis title, "Physiologic Specialization in *Puccinia coronata avenae*", committee, E. G. Stakman, chairman, R. B. Harvey, J. J. Christensen.

430. **Richard J. Phillips, major Dairy Husbandry, minor Agricultural Microbiology, degree B.S., thesis title, "Magnesium sulfate as a Factor in the Detention of Calcium and Phosphorus in Cattle", committee, G. E. Reider, chairman, L. S. Palmer, R. A. Gortner.**

431. **Arthur E. Terrill, major Forest Products, minor Forestry Pathology and Zoology, degree B.S., thesis title, "A Comparative Study of the Physical Properties and the Structure of Compression Wood and Normal Wood", committee, J. N. Ventling, chairman, R. S. Schuman, F. S. Cooper.**

432. **E. A. Williams, major Animal Husbandry, minor Dairy Husbandry, degree M.S., thesis title, "A Study of the Inhibitive Requirements of Growing Swine by Comparison of the Leading Feeding Standards", committee, F. E. Tobern, chairman, G. E. Reider, L. S. Palmer.**

433. **B. E. Williams, major Horticulture, minor Plant Genetics, degree M.S., thesis title, "The Relative Hardiness of Raspberry Varieties", committee, J. E. Dornant, chairman, E. E. Hayes, R. D. Harvey (or G. O. Burr, if Dr. Harvey is not back.)**

434. The chairman called the attention of the committee to the report of Dean Woodbridge in his Annual Report of the Dean of the Graduate Division of Columbia University (1950) dealing with the question of the examinations for the Doctorate degree. The part in question appears on pages 4, 5, and 6 of Dean Woodbridge's report, as per attached copy.

It was voted by the committee that a copy of this report be called to the attention of the Executive Committee of the Graduate School with the request that they consider it and see whether or not such questions might not appropriately be raised with the general teaching faculty of the Graduate School with the view of modifying the final oral examination in the direction indicated by Dean Woodbridge's suggestions.

The committee adjourned.

R. A. Gortner
Chairman

From Annual Report of the Dean of the Graduate Faculties
Columbia University
1926

By Dean Frederick J. E. Woodbridge

The requirements for the Doctor's degree have worked admirably, but experience suggests a modification of them. The shifting of emphasis from registration to matriculation has led students to pay more consistent attention to their preparation for the matriculation examinations. These examinations have become increasingly important. The student who has successfully passed them stands in need of no further examination in his subjects or preparation. He is then matriculated as a candidate for the degree and is expected, thereafter, to give pretty exclusive attention to his research. The final examination has, consequently, lost much of its former significance. It is nominally the public defense by a candidate of his dissertation before a committee of the faculty. Our experience, however, clearly indicates that such a defense is not the best method of securing dissertations of the desired form and quality. We have found that the submission of the dissertation to the criticism of a faculty committee who are to pass finally on its acceptability for publication, has better results. The defense of the dissertation by this method, instead of being a rather formal public performance, becomes a cooperative effort on the part of the committee and the candidate to bring the dissertation into conformity with the demands of expert criticism. Its adoption as the regular procedure would render unnecessary the present final examination. I recommend, therefore, that the committees on instruction consider this matter with a view to proposing appropriate legislation.

There are decided advantages in this proposal. Our examination schedule has become so crowded that some relief is imperative. If the final examination of the candidate before a committee were displaced by the critical examination of the dissertation which I have suggested, the schedule would be immediately relieved. We should have then to submit daily matriculation examinations. These should be put at stated periods when candidates are available and in residence. We should be freed from the ever increasing demands to schedule final examinations at periods convenient to the candidate rather than to the faculty. This may sound trivial, but the fact is that candidates who now present themselves for the final examination are often so situated that respect has to be paid to their convenience. They are frequently put to expense and hardship which the results of the examination do not warrant. Their time and that of the faculty are often wasted. Both could be turned to more effective purpose. And it is, after all, the more effective purpose which is the chief matter for concern. I am confident that, if the time now spent in arranging and conducting final examinations, were employed to secure a critical examination of the dissertation by a committee responsible not for its public defense, but for its proper appearance in print, our dissertations would be improved. In this whole matter we have, I fear, followed an academic tradition which no longer fits the conditions with which we are confronted. Our experience and practice do not lead naturally to the public defense of a dissertation which, if successful, entitles the candidate to print and be recognized. They lead rather to the presentation of a piece of research to the private criticism of the competent who are to decide on its form and value.

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Graduate Group Committee for Agriculture
November 3, 1927

The Graduate Group Committee for Agriculture met at 9:30 A.M., on Thursday, November 3, 1927.

Present: Mr. Gardner, presiding, Miss McNeal, Dr. Schmitz, Dr. Chapman, and Dr. Hekles

The following actions taken during the interim were reported by the chairman and approved:

- #1. At the request of the Social Science Committee that the Graduate Group Committee for Agriculture recommend an additional member for the thesis committee of Susan E. Hall, major Agricultural Economics, minor General Economics, thesis "Factors Influencing the Price of Pacific Coast Eggs in the New York Market", committee, Black, Price, Budget, Carver, the name of Dr. C. H. Hekles was recommended on June 6, 1927.
- #2. The recommendation of the appointment of Miss Eugenia Hekell to the Teaching Faculty of the Graduate School for the Summer Session of 1927, for course work only, approved June 17, 1927.
- #3. The thesis title of E. M. Erdal, major Agronomy, minor Plant Pathology, degree Ph.D., thesis title, "A Study of the Ability of Four Wheat Varieties, Marquis, Marquillo, Keta, and Cerus, to Utilize Plant Nutrients", committee, A. G. Army, chairman, F. K. Duttons, J. J. Williamson (vice, R. B. Harvey, until Prof. Harvey returns) H. G. Stakman, H. K. Hayes, approved August 1, 1927.
- #4. The thesis title of A. L. Hall, major Dairy Husbandry, minor Agricultural Economics, degree M.S., thesis title, "Energy Requirements for Normal Growth of Dairy Heifers", committee, C. H. Hekles, chairman, H. B. Price, W. B. Combs, approved August 25, 1927.
- #5. It was the recommendation of the committee that the petition of E. M. Erdal that he be permitted to take the preliminary examination for the Ph.D. degree, major Agronomy, minor Plant Pathology, with one of the language requirements incomplete, be approved.
- #6. The thesis title of Samuel Richard Glass, major Agricultural Biochemistry, minor Chemical Engineering, degree M.S., thesis title, "A Study of Paper Sizing", committee, R. A. Gardner, chairman, C. A. Mann, Henry Schmitz, approved Oct. 22, 1927.
- #7. The chairman reported the attached correspondence in regard to regulations requiring three quarters of residence at Minnesota for the Master's degree in the case of foreign students, notably Mr. Garthside and Mr. Williams.

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The following items of business were transacted:

- #8. The recommendation of the appointment of Robert Arnold Harfile, Associate Professor of Entomology, for one year to the Teaching Faculty of the Graduate School was approved.

The following three-year programs were approved:

- #9. The three-year program of Harold E. Hale, major Dairy Husbandry, minor Agricultural Biochemistry (Animal Nutrition), adviser H. E. Holden.
- #10. The three-year program of Earl E. Fischer, major Agricultural Biochemistry, minor Botany and Chemical Engineering, adviser R. A. Gartner.
- #11. The three-year program of Helen Earl, major Plant Pathology, minor Botany, adviser H. G. Steiman.
- #12. The three-year program of E. Q. Bishopp, major Plant Genetics, minor Agricultural Biochemistry, adviser H. E. Hayes.
- #13. The three-year program of Hilda E. Hogg, major Agricultural Biochemistry, minor Bacteriology, adviser L. E. Palmer.

The following petitions were approved:

- #14. The petition of Walter Stanley Gunderson, major Dairy Husbandry, that he be granted six quarter credits for Biochemistry (Chemistry 115) taken at the University of Arizona in 1924-25, as a graduate student, these credits to be applied on his minor requirement in Agricultural Biochemistry. (M.S. degree)
- #15. The petition of Eugene J. Erickson, major Forestry, that he be allowed to substitute Swedish in place of French or German as a language requirement for the M.S. degree.
- #16. The petition of E. A. Hanson, major Dairy Husbandry, that the language requirement for the M.S. degree be waived.
- #17. The petition of E. E. Midell, major Dairy Husbandry, that he be allowed to substitute Courses 101F - 102F, Agricultural Quantitative Analysis, for Course 115F, Problems in Dairy Bacteriology. (Ph.D. degree)
- #18. The petition of Allen Raymond Robinson, major Agricultural Biochemistry, that he be allowed to transfer credits from the University of Saskatchewan in Chemistry 104 (2 quarter credits), Chemistry 43 (4 quarter credits), Chemistry 90 (3 quarter credits), Biochemistry, Chemistry 7, (15 quarter credits) and thesis (cereal chemistry research) to the Graduate School of the University of Minnesota, the same to be equivalent to one year's resident credit and the above credits to apply on major and minor in the University of Minnesota as agreed to later by major and minor departments. (Ph.D. degree)
- #19. The petition of Walter J. Roth, major Farm Management, to add to his three-year program Farm Management 104, History of Agronomy and Farm Management, and Farm Management 226, Statistical Analysis of Farm Management.
- #20. The petition of Hilda E. Hogg, that the graduate credits granted at the University of Wisconsin be accepted by the University of Minnesota toward the Ph.D. degree. (major, Agricultural Biochemistry)

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The following thesis titles were approved and committees appointed:

- #21. **Harold H. Gels**, major Dairy Husbandry, minor Agricultural Biochemistry (Animal Nutrition), degree Ph.D., thesis title, "The Changes Occurring in the Vagina of the Cow and Correlated Changes in Other Genital Organs", committee, G. H. Hodges, chairman, G.M. Jackson, joint thesis advisor, L. S. Palmer, W. L. Boyd, and W. H. Peters.
- #22. **Earl E. Fischer**, major Agricultural Biochemistry, minor Botany and Chemical Engineering, degree Ph.D., thesis title, "A Study of the Toxin of *Blasopys nigricans*", committee, R. A. Gortner, chairman, G. C. Rosenthal, G. A. Mann, A. D. Hirschfelder, R. G. Green.
- #23. **Helan Earl**, major Plant Pathology, minor Botany, degree Ph.D., thesis title, "Morphology and Physiology of Wheat Varieties in Relation to Rust Resistance", committee, H. G. Stalman, chairman, F. E. Dutton, G. O. Burr (H. B. Harvey, when he returns), H. K. Hayes, and J. H. Seaman.
- #24. **Emilia Thomson**, major Home Economics, minor Education, degree M.S., thesis title, "A Comparative Study of Some Properties of a Group of Wool Fabrics", committee, Ethel L. Phelps, chairman, W. G. Coffey, W. S. Miller.
- #25. **Alan E. Trisler**, major Agricultural Biochemistry, minor Botany (Biometry), degree Ph.D., thesis title, "A Biometric Study of the Chemical Properties of Wheat and Wheat Flour", committee G. H. Bailey and J. A. Harris, Joint Chairman, R. H. Chapman, R. A. Gortner, and H. M. Freeman.
- #26. The chairman presented correspondence from Professor Peck, Chief of the Division of Agricultural Extension, and from a committee of the County Agents Association, the committee being comprised of the following persons (Fred S. Edus, W. A. Peters, and Shadi Hatford, chairman) in regard to the possibility of county agents taking advanced work in the Graduate School of the University of Minnesota. Their petition is as follows:

University of Minnesota

Agricultural Extension Division

October 29, 1927

To the Chairman of Graduate Committee-

In view of the widespread sentiment among the seventy county agricultural extension agents in Minnesota for taking advanced training in order to provide desirable improvement in the extension service, and to advance their own education, take this opportunity of making a request relative to the availability of graduate study in the University.

In order to form a basis of consideration of this subject, the committee representing the county agents' association respectfully request that the last six weeks' work in any academic quarter in the graduate school be recognized as the equivalent of a summer session term as a basis for resident credit, provided that the work of the other six weeks in that quarter is completed in absentia.

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to the satisfaction of the instructors of the courses taken.

(Signed) Fred S. Idice
Edith Johnson
Committee on Advanced Training
for County Agents
Minnesota County Agents' Association

The request passed to the Students Group Committee a fair request. Consequently the Committee voted to forward this request to the Executive Committee of the Students School with the request of the Group Committee that the Executive Committee grant the request, if possible.

The committee adjourned.

R. A. Gertner, Chairman

Attendance:

- #27. The three-year program of Alan E. Tralove, major Agricultural Biochemistry, minor Botany (Biology), adviser S. H. Bailey and J. Arthur Harris, was approved.