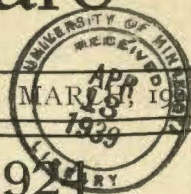


The School of Agriculture

UNIVERSITY OF MINNESOTA

UNIVERSITY FARM, ST. PAUL

Vol. I, No. I — v. 5



COMMENCEMENT CALENDAR FOR 1924

Friday, March Twenty-eighth
 Class Night Exercises Auditorium, 8:00 P.M.

Saturday, March Twenty-ninth
 Reception to Graduating Class Home Economics Building, 8:00 P.M.
 PRESIDENT and MRS. L. D. COFFMAN
 DEAN and MRS. W. C. COFFEY

Sunday, March Thirtieth
 Commencement Sermon Auditorium, 3:00 P.M.
 REV. J. A. O. STUB, Pastor
 Central Lutheran Church, Minneapolis

Monday, March Thirty-first
 Class Play Auditorium, 8:15 P.M.
 (Admission by ticket)

Tuesday, April First
 Alumni Day
 General Meetings 10:00 A.M.
 Class Reunions 11:30 A.M., Administration Building
 Alumni Lunch 12:30 P.M., Dining Hall
 Alumni Business Meeting 2:00 P.M., Administration Building
 Alumni Dinner 6:45 P.M., Dining Hall

(Admission by ticket)

Wednesday, April Second
 Graduating Exercises Auditorium, 2:00 P.M.
 Address, W. F. WEBSTER, Superintendent of Minneapolis Public Schools
 Presentation of Diplomas PRESIDENT L. D. COFFMAN
 Alumni Ball Gymnasium, 8:30 P.M.

(Admission by ticket)

University Farm, St. Paul, Minnesota

ALUMNI OF THE S. A. U. M.—TAKE NOTICE

The BIG day is April 1st. Will you be here? An all day program from 10:00 a.m. to 10:00 p.m. Crammed full of the spirit of the old days. Make your plans now and come back and mix with the old gang again for a few hours.

At 10:00 a.m. we will meet in a general get-together in the Administration building, give the old yells and sing some of the old songs. Lunch at the cafeteria will be at 12:30 p.m. At 2:00 p.m. the business of the Alumni Association will be taken care of and the time from then until 6:45 p.m. will be occupied in reunions of the different classes. Those of '94, '04 and '14 will have special reunions and will put on some stunts at the banquet as part of the entertainment. It is going to be a big show, folks. DON'T MISS IT. The banquet is always largely attended and in order to take care of all, reservations must be made in advance. We must know not later than March 28 how many to plan for.

Fill out the blank and mail it in with your check to T. J. Horton, University Farm, St. Paul. Banquet tickets \$1.25 each. Then do not forget the Annual Ball in the Gymnasium the following evening, \$1.00 per couple.

.....1924

I will attend the Alumni Banquet. Reserve.....tickets for me.

Signed.....

DAIRY CLUB DAY A FINE SUCCESS

Forty-nine boys and one girl took part in the dairy cattle judging contest staged by the Dairy Club of the School of Agriculture at University Farm March 14. Holsteins, Guernseys, and Jerseys were judged, with Axel Hanson of Savage giving the decision in placings. The five winners in each of the three classes were:

Holsteins—

1. Arthur W. Johnson, Hallock...187
2. Eric Loenholdt, 697 Goodrich ave., St. Paul.....186.5
3. Roland Whiting, Mankato....186
4. Lawrence Head, Albert Lea...185
5. Helen Fulton, Ismay, Mont....184

Guernseys—

1. Royal Melander, Shafer.....186.5
2. E. G. Broberg, Waconia.....186
3. Harold Strandberg, Alexandria 185.5
4. Eric Loenholdt, St. Paul.....185
5. Alvin Lindberg, Sebeka.....184

Jerseys—

1. Erick Loenholdt, St. Paul.....178
2. John Larson, Spicer.....176
3. Ray Cline, Aitkin.....175
4. Claude Harrison, Lake City...172
5. Hilding High, New Ulm.....171

Final Winners in All Breeds

Eric Loenholdt, who has been in the United States only two and one-half years and who is only 16 years old, won the high honors of the day, being first in judging Jerseys, second in judging Holsteins, and fourth in judging Guernseys. His scores for the three classes totaled 549.5. Other winners down to No. 10 were in their order:

2. Roland Whiting, Mankato....545
3. Ray Cline, Aitkin.....540
4. Emmett Clinton, Watkins.....534
5. Arvid W. Sponberg, New Richland.....527.5
6. Ole Engene, Caledonia.....527
- 7, 8. E. G. Broberg, Waconia, and Edward Bremer, Lake City, each.....522
- 9, 10. Charles Head, Albert Lea, and R. C. Malmquist, South Haven, each.....519

McGuire Speaks; Banquet at Night
"Dairy Day" was opened formally at the assembly exercises of the school at noon. H. J. Burtis, elocutionist, gave a monologue on dairying, and A. J. McGuire, general manager of the Minnesota Co-operative Creameries' association, sketched the development of co-operative buttermaking and marketing in Minnesota and the relation of the School and College of Agriculture to that development.

The culminating event was a banquet served to club members and guests at the University Farm cafeteria at night when the prizes and trophies were presented the winning judges by Prof. O. G. Schaefer. The sweepstakes prizes were given by the Minnesota State Food and Dairy Commission. Silver medals for the first prize winners in each of the three breeds were the gifts of the different breed associations. Second and third ribbons in each class were furnished by the state fair association.

W. E. Petersen, who is in charge of official testing in Minnesota, was toastmaster, and Prof. T. L. Haecker, R. M. Washburn, and Dr. C. H. Eckles, chief of the dairy division, gave addresses.

President of the Class of 1924 and His Champion Baby Beef Entry in '22



Introducing Joseph Isaksen of Springfield, Minn., Who Has Made His Mark in Both Club and School Work.

LITERARY SOCIETIES OF SCHOOL FLOURISH

Six literary societies in the School of Agriculture are carrying on work this term. The societies have a larger membership than has been heretofore permitted. This has come about through the consolidation of some societies that during the fall term were too small. The S. A. U. M.-Owls is the largest society on the campus, having a membership of 97. The Eagles, the Adelphics and the Minnehaha-Gopher are large and prosperous organizations for both boys and girls. The Minnesota and the Beaver Literary Societies meet Monday evenings and are for boys only.

Dramatic Work of Year

The last dramatic event of the year under the auspices of the Literary Union and under the direction of Katherine Kester was given by the S. A. U. M. Owl Literary society. Two plays were presented, "The Trysting Place" by Booth Tarkington, and "The Chap Who Woke Up" by Katherine Kester. The last number represented life at the school, the scene being the living room of the girls' dormitory.

Two very catchy school songs were introduced. Students practiced the "Aggie Rouser" at assembly and it will be published with music in the next Agriculture School Song Book.

CORN GROWING PROJECT TO BE PUSHED IN 1924

R. F. Crim, farm crops specialist with the agricultural extension division of the university, has been foremost in urging the expansion of one-acre and five-acre corn club projects and has the hearty support of the extension and farm crops division forces behind him. At the recent meeting of the Minnesota Crop Improvement association Mr. Crim was appointed field agent to interest boys and girls in corn growing and to promote local corn shows over the state. The aim is to make the cultivation of corn a major project among juniors.

"UPS AND DOWNS" OF FARM REVIEW

The Minnesota Farm Review, which was recently discontinued, began its career in January, 1896, under the name, Farm Students' Review. The heading of the editorial page stated that it was published monthly at St. Anthony Park, Minn.; that the subscription price was 25 cents a year; and that advertising rates were 30 cents an inch. In their introduction, members of the editorial staff, T. A. Hoverstad, W. G. Smith and Emil Sandsten, informed "Kind Reader" that a new agricultural paper had been born, and that the reason for its existence was the need of some means of keeping the alumni and former students in touch with each other and with the school and experiment station.

The fourth issue of the paper, that of April, shows that Andrew Boss had been made managing editor; Warren Pendergast, editor in chief; T. A. Hoverstad, business manager, and the names of A. L. Haecker and W. T. Shaw had been added to the list of editors. The advertising rates had also been changed from 30 to 50 cents per inch.

Classy New Heading

For the first year and a half the paper had no heading for the front page other than the name printed in large letters. The June number of 1897, however, came out with an artistic head designed by the Art Engraving Co. of St. Paul. This was a gift to the Review management by the late Colonel William M. Liggett, who at that time was the dean of the agricultural department, and director of the experiment station.

In January, 1899, the price of subscription was raised from 25 to 40 cents per year. Though there seems to be no mention of the matter in any issue of the paper, there was an arrangement in force by which a person might become a life subscriber by paying at one time the sum of five dollars. It is known that a number of the faculty and alumni took advantage of this offer.

Turned Into Weekly

The passing years saw many changes in the editorial staff and management, but the paper was published regularly as a monthly till the fall of 1916 when it was changed to a weekly publication and became the official organ of the school and college, and at the same time tried to function as a newspaper for the community. It was used as a laboratory for the students in journalism.

The name was changed from Farm Students' Review to Minnesota Farm Review in the summer of 1908. The principal reason for the change was the fact that business men when solicited for advertising gained the idea from the old name that it was simply a student publication and did not circulate among the farmers whom they wished to reach. The design for the new name which first appeared on the front of the issue for September, 1908, was drawn by Andre Boettcher of the department of agriculture, who spent some time at University Farm making drawings for a bulletin which Professor Hays, then assistant secretary of agriculture, was writing.

HOME FOUND FOR
MUSIC ACTIVITIES

Music at the School of Agriculture has been without any permanent abiding place till this year. Now a music building has been provided as a center for the activities in music. The structure originally built as a chemical laboratory, then occupied by the domestic science department and for the last few years used as a soils laboratory, has been converted into a music building.

With an enlargement of the third floor and a rearrangement of rooms on the second floor, ample facilities are afforded for the work in music. The third floor has ten small sound-proof practice rooms for piano, violin and other instrument practice. A library table in a large room provides a place for the examination and reading of the best musical journals and books related to music.

Opportunities for Progress

The second floor has a large room for band and orchestra practice, a piano studio, a recitation room for elements of music and a vocal music studio.

There can be no doubt of the progress that may be made by the students in music through the enlarged opportunities given by the transformation of the old chemical laboratory building. The picture of the music building on this page will give a good idea of the external appearance of the building and will serve to identify it to former students.

Courses in Music

The courses in music offered in the School of Agriculture are varied in character and meet nearly every need and desire in music.

The several activities listed furnish many opportunities for making the social life of the students on the campus much richer, as well as furnishing much appreciated entertainment for public occasions.

The choruses, vocal octettes, quartettes, as well as band and orchestras, are in constant service during the school year. Many students are making preparations to take music into their rural communities and make the social life there more entertaining and of a better kind. Opportunities for practice in leadership of music groups is furnished by the instructors. The list of courses is here given. All subjects are free for students except for private work:

Fundamentals, Chorus, Violin

Elements of Music I. Fundamental principles of musical notation, pitch, rhythm, musical terms, formation of major scales, sight reading, singing, and ear-training. No fee. Miss Rollefson.

Elements of Music II. Continuation of musical principles, formation of minor scales, sight singing, intervals, ear-training, how music is related to mental processes. No fee. Miss Rollefson.

Chorus. Sight reading and ear-training. From this chorus, students with unusual ability and experience will be chosen for the school chorus, which is divided into men's glee club, girls' chorus, mixed chorus and quartet. No fee. Miss Rollefson.

Violin. Elementary: Rosenkranz, Kayser Etudes, Schradieck Scales, Solos



REMODELED MUSIC BUILDING AT THE FARM

in Comparison. Intermediate: scales in all positions, Seveik, Mazas, Dont, compositions of medium difficulty. Advanced: Kreutzer, Fiorillo, Rode, Gavinie, sonatas of Handel, Gade, David, concertos of Viotti, DeBeriot, Mendelssohn. Ten thirty-minute lessons, \$10 per term. Miss Schaeftgen.

Piano. Elementary and advanced technical training, scales, arpeggios, octaves, chords, selected technical studies. Bach: Inventions, Well-Tempered Clavicord. Sonatinas: Clementi, Kuhlman. Sonatas: Haydn, Mozart, Beethoven. Solos for all grades; classics and best modern material. Ten thirty minute lessons, \$10 per term. Miss Willson.

Instrumental. Instruction on band and orchestral instruments, such as cornet, clarinet, flute, trombone, baritone, horn, bass, etc., scales and technical exercises with practical playing. Ten thirty-minute lessons, \$10 per term. Mr. Wehrend.

Orchestral and Voice Training

Orchestra. Standard orchestral literature and accompaniment of vocal and instrumental solos. Instruction and laboratory experience for those not sufficiently equipped technically, to improve the sense of rhythm, intonation, phrasing, and interpretation. No fee. Mr. Wehrend.

Voice. Voice-placing, breath development, enunciation, diction, illustrated by elementary studies and exercises by Sieber, Clippinger, Con Cone; songs of medium difficulty. Ten thirty-minute lessons, \$10 per term. Miss Rollefson.

Harmony I. Formation and progression of triads, seventh and ninth chords, harmonizing a given bass. No fee. Miss Willson.

Harmony II. Harmonizing simple melodies, cadences, modulations, transposition, accompaniment-writing and melody-building. No fee. Miss Willson.

Appreciation of Music. Appreciation of music; brief history; biographies of well-known composers; and a knowledge of standard musical literature for the orchestra, band, chorus, solo work,

JOURNAL RENEWS
CALF CLUB OFFER

More free educational trips and more scholarships for club boys and girls of Minnesota!

The Minneapolis Journal has renewed its offer to dairy calf club members. Regents of the university have approved and accepted the offer. The winner of junior dairy calf club work in every Minnesota county having a dairy calf club enrolment of 25 or more will be given a free trip and entertainment for about a week. In addition, The Journal offers scholarships of \$100 each, good at the schools of agriculture at University Farm, Morris and Crookston, or at the agricultural college, one scholarship to be awarded to the boy or girl adjudged the state winner in dairy calf club work in each of the breed classes.

The scholarships given by The Journal in 1923 were won by Oscar Goranson of Blue Earth county for the Holstein class; Kenneth Walters of Douglas county for Guernseys; Stanley Hillier of Mower county for Jerseys; John Chambers of Steele county for Ayrshires, and George Segner of Wright county for the Brown Swiss. Young Walters had planned to leave the farm, but has reconsidered since receiving his scholarship and is now attending the school of agriculture at Morris.

Still Talking About It

People still talk about the dairy calf show staged by club boys and girls at the last Minnesota State Fair. One hundred thirty nine calves, all of them beauties, from 135 farms in 58 counties were exhibited.

and any combination or group of instruments or voices. No fee. Mr. Wehrend.

Instrumentation and Conducting. A knowledge of instruments of the band and orchestra, their origin and development, construction, part they play, and how played. Combinations of instruments. Essentials of conducting and actual practice in directing band and orchestra. No fee. Mr. Wehrend.

U of M Bindery AUG 28 53 5-11-54 School of Forestry G. F.

THE SCHOOL OF AGRICULTURE

Published every month of the school year at University Farm, St. Paul.

Subscription price: Fifty cents for twelve numbers.

Application for entry as Second Class Matter is pending.

MARCH, 1924

FALL TERM OPENS SEPT. 29

The fall term opens September 29 for registration. The classes are called for work on the succeeding day. The term closes December 20.

Those interested should write for a bulletin that gives complete information concerning the courses of study, cost of attendance and regulations.

A TRADITION OF HIGH IDEALS

The Bulletin of the School of Agriculture in 1905 contained the following statement:

The use of tobacco on the grounds and the use of spirituous liquors of all kinds is strictly forbidden. Any one not in accord with these restrictions and not willing to lend a hand toward a strong moral growth should not come to the School of Agriculture.

This statement with slight modifications has been in each of the bulletins of the school for nearly twenty years. A tradition has been established in favor of exemplary conduct, good habits and active aid in promoting the best in human conduct.

VESPER SERVICES BY RADIO

The School of Agriculture at University Farm has held special vesper services Sunday afternoons for a great number of years. Pastors of the Twin Cities have appeared as they were invited to conduct this service.

With the establishment of a neutrodyne radio receiving set with a loud speaker in the auditorium the afternoon vesper services of the House of Hope Presbyterian church are received plainly.

All the services are not by radio. The Y. M. C. A. and Y. W. C. A., under whose charge the vesper services are held, provide speakers whenever the occasion is propitious, but at other times the radio is a very important aid in conducting the meetings.

BUSINESS TRAINING FOR THE FARMER

The up to date farmer must be trained in business as well as in production of crops and raising of livestock. He has business relations requiring knowledge of business law, legal papers and accounting much more frequently than other people not engaged in a business involving so many lines of activity.

There is provided now for boys in the School of Agriculture the following opportunities to gain a knowledge of business.

Double Entry Bookkeeping, one term. This subject is taught in a practical way and includes the handling and understanding of commercial paper.

General Office Practice which for boys is a practical course in business practice including the elements of accounting, business law, filing of papers and practice in conducting business.

Co-operative Accounting, a study of the nature and kind of accounts for co-operative business. Practice in interpretation of balance sheets and income statements of various types of co-operative organizations.

Farm Management 1 (Records). Practice in taking farm inventories and in keeping labor, crop, field, and feed records. Studies of cost of production, the use of farm capital, mortgages, farm loans, contracts, deeds, taxes, insurance, general farm business methods.

Typewriting. The touch method is taught; following the acquirement of the command of the keyboard, repetition drills, concentration drills and acceleration drills are given.

Which Will Lead This Year?

Olmsted county, with 51 members, had the largest dairy calf club in the state last year. Several other counties which might be mentioned have strong organizations and any one of them is a potential leader this year.

SOCIAL TRAINING

Democracy in social relations between students is the basis of the course in social training offered alike to boys and girls. Opposed to the idea that courtesy is a social veneer, these courses visualize it as one of the means for preventing friction and promoting understanding in human relationships. Laboratory practice in social problems is offered in the frequent conduct of parties and receptions. These may be formal or informal, in either case they are intended to be educational as well as entertaining, and the active participation of each student is encouraged.

"Prize Money Not the Greatest Good"

Otto Fahning, club boy of Cleveland, Minn., doesn't believe that money is everything. In a letter to the state leader he says: "My prize money in 1923 was not the greatest good I got out of club work. The amount one makes in dollars and cents is not what makes club work so valuable. The experience one gets through it and what one learns are the important things."

We'll Say It Is

Numbers are not everything by any means, but still there is strength in them. Minnesota club work enrolled 19,806 boys and girls last year. Just a few more and the number will be 20,000. A big strong forward movement all along the line would boost the number to 25,000. Worth working for.

"Staff of Life" Leads of Course

Breadmaking club work was the most popular of all projects given attention by juniors of Minnesota last year. The number of breadmaking clubs was 295, the number of members enrolled 3,864, and the number of members reporting 2,804.

THE AGGIE ROUSER

Words and Music by Katharine Kester

Aggie, Aggie, Minnesota U!

Farm and homey, That's the place for you!

Learning, laughing, cheering, chafing,

What! the old S. A. U. M.? Yep! the old S. A. U. M.

I'll tell the world!

Agriculture! That's the School for me!

Minnesota! That's where I would be!

Cooks and charmers! Books and farmers!

What! the old S. A. U. M.? Yep! the old S. A. U. M.

I'll tell the world!

S. A. U. M.! That's the School for mine!

Rise at five o'clock, go to bed at nine!

Raising the dickens, counting chickens!

What! the old S. A. U. M.? Yep! the old S. A. U. M.

I'll tell the world!

NEW DAIRY HALL READY FOR USE

Moving day dawns for the dairy division staff. Between March 21 and April 2, the vacation period, dairy division men will move their equipment and chattels to the new dairy hall which has just been finished at a contract price of \$217,000. No formal dedication exercises, no beating of tom-toms or blare of trumpets will mark the occasion. The big doings will be reserved as a special event for Farmers' and Homemakers' Week Short Course next January.

The new building is about the last word in completeness and adaptation to the purposes for which it was erected. Cornell and California have erected much more expensive buildings, but Minnesota's probably has no equal at any university station in the middle west. It is of a modified Roman style and is in perfect harmony with the Administration and the Agricultural Engineering buildings. The three, extending in a north and south line as they do, present an imposing front. In addition to the contract price, the legislature appropriated \$35,000 for new equipment and several thousand dollars must be spent for grading and tunneling.

Four Stories in Main Section

The main section of the building is approximately 158 feet in length and 61 feet in depth. It is proper to speak of it as a four-story building, for the first floor is clear of the ground except in the front. The rear section of one story only is 93 by 66 feet.

Laboratories for the use of short course students and class men studying the elements of dairying are located on the first floor, also rooms for the small animals used in experimental work by the section of nutrition and dairy chemistry. The second floor has been divided into class rooms, testing laboratories, the laboratories of the nutrition and dairy chemistry section, with office and laboratory for the official tester of dairy cows.

Dr. C. H. Eckles, chief of the dairy division, will have his offices on the third floor, where also will be found the laboratories and offices of the section of bacteriology and reading and class rooms. The fourth floor will not be equipped for occupancy at this time.

Ideally equipped ice cream, cheese and butter laboratories with cooling, hardening and curing rooms, will be features of the rear portion of the new building. Various rooms will be equipped for the handling of supplies, the cleansing of utensils of all sorts, and for distributing the products of the department.

Many Fine Class Rooms

Practically 250 students can be seated at the same time in the eight class rooms of the new building. A large reading room, with a well stocked library and books on dairying and kindred subjects, has been provided on the third floor. All the laboratories will have every facility for carrying on research work.

Much of the new equipment will not be installed until the summer months, says Dr. Eckles. One of the most expensive pieces will be a small sized milk condensing outfit which has been needed for a long time in the work of preparing



NEW DAIRY HALL WHERE THE DAIRY CLUB OF THE SCHOOL CAN HAVE ITS HEADQUARTERS

students for technical dairy service in commercial plants

Fate of Old Hall Not Yet Known

Just what further use will be made of the old dairy hall, around which cluster so many pleasant memories for students and alumni of the school, has not yet been determined. The first half of the old building was built in 1891 and the second half in 1895. Other additions were made at later dates.

Prof. T. L. Haecker, he first chief of the division, will be honored by the Minnesota Cooperative Creameries association which will place a bronze tablet, bearing his name and outline of his services, in an interior wall of the building. Professor Haecker was succeeded by Dr. H. H. Kildee, now of Iowa State College at Ames. Dr. Eckles, third in succession, has been with the university since the spring of 1919.

Room for Dairy Club to Grow

The new building probably means the further expansion of the Dairy Club of the School of Agriculture. This club, organized in 1918, became the largest organization on the campus two or three years later. Its first president was Robert McGowan of Wabasha, whose untimely death in a railroad accident last year was lamented by every acquaintance at University Farm.

The club commenced to make real history along in 1922 when it held its first annual judging contest and banquet and started what has come to be known as "Dairy Day" at University Farm. Walter Venske of New Germany, Carver county, was president in those days. The membership was close to 100, about 75 of whom took part in the judging contest of that year. Walter Venske was chairman of the board and the other members were Clarence Bremer of Lake City, Thomas Salo of New York Mills, Porter Olstad of Redwood Falls, and Edwin Lund of Tyler. Howard Haig of Bloomington was president of the club in the fall of 1923 and spring of 1924. He was succeeded by Irving Freeman of

Dassel who was followed by the incumbent, Clifford Browning of Brownsdale, Minn.

The dairy club was organized for work and study. Meetings have been held every Tuesday night in Room 1 of the Plant Pathology building. A discussion of some phase of dairying, usually led by an outside speaker of note or a member of the faculty or a graduate student, is always a leading feature of these meetings. Occasionally, special programs have been arranged for the girls of the school as invited guests.

YEAR ADDED TO SEWING PROJECT

Fourth year sewing is to be added to the sewing project of boys' and girls' club work in Minnesota in order to meet a growing demand for advanced project work. A slogan for this new work might be, "Furnish your own room," for it will consist of making such articles as curtains, draperies, rag rugs, and possibly also the redecoration of walls and refinishing of wood work and furniture for the rooms of club members.

It will be the aim, first, to show the girl how to plan and furnish a simple, attractive room; second, to show her the possibilities of materials and articles she already has, thus creating a true appreciation of values; third, by the influence of one attractive room to interest the family to improve the whole home, thus raising the standards of living, and fourth, to create in the girl such an interest in her own home that it will serve to tie her more closely to the farm home and her people.

Two Other Popular Ones

Garmentmaking and canning were favorite club projects in Minnesota in 1923. Two hundred sixty-one garment clubs enrolled 2,616 members, and 211 canning clubs enrolled 1,854 members.

NOON ASSEMBLY NOTEWORTHY FEATURE

The assemblies at the School of Agriculture are notable for the interesting lectures and entertainments furnished and also for the uniformly good attendance of the students. A good audience is assured everyone who appears on the programs. Assembly is held four times each week at noon. After opening exercises, consisting of music and announcements, the remainder of the hour is given to the program. The program consists of entertainments by various groups of students, musical numbers by students and professionals.

The following persons not connected with the institution have appeared at assembly this year:

Prof. H. S. Quigley	Robert Thompson	Senator Magnus Johnson
Col. C. M. Brittin	John Sinclair	Prof. John M. Evvard
Judge F. T. Wilson	Ass't Dean J. A. James	J. H. Hay
Rev. W. T. McElveen	C. Walter Young	J. B. Phelps
E. W. Peck	Conrad J. Hausen	Moulton B. Goff
Louise Broadbent	C. M. Tobin	Mrs. A. J. McGuire
Chas. F. Collisson	Frederic J. Libby	Dan Wallace
Rev. Howard Y. Williams	C. A. Chapman	Rev. L. F. Ryan
Rev. Mr. Gratz	F. W. Murphy	C. D. Pfeifer
Frank Nelson	S. A. Stockwell	E. B. Pierce
Pres. Arthur E. Morgan	Rep. J. R. Sweitzer	R. F. Wilder
	Rev. L. H. Rising	

GLAD THEY TOOK UP CLUB WORK

Although they may not say much about it, boys and girls appreciate the results obtained from club work. A few excerpts taken from letters received at the state headquarters reflect, no doubt, the sentiments of all. Here is what Merle Campbell of Redwood Falls wrote to the state leader:

"I certainly appreciate what club work has done for me. I had no idea it would ever be anything like it and (referring to his Chicago trip) it certainly is getting to be a nation-wide affair. My father sure liked University Farm fine; he said he would like to go to school there himself."

Florence Beck of Barnum, Minn., writes the state leader about their splendid canning team, saying in part: "I received my fruit jars and they are fine. So many prizes are given for club work that it greatly encourages one. I am the president of our club this year and I find the work very interesting."

Carol Kesler of Mankato attended the short course at University Farm a year ago. "We girls were very much pleased with our trip to the short course," she writes. "For myself I wish to thank you and all the other leaders who made our stay there so pleasant."

Clara Emmmler of North Mankato wrote as follows: "I wish to take this means of thanking you for the good I obtained from the University Farm course. I certainly was fortunate in having such a wonderful hostess and sincerely hope to attend other courses in the future."

Lee De Griselles of Pipestone wrote that he really couldn't think of words to express his gratitude for the Chicago trip. Myrtle Hunstad of Butterfield said: "It was an enjoyable as well as an educational trip—one never to be forgotten." Julia Reiling of Como station, St. Paul, said: "I learned many things during the Chicago trip, and I saw many things which formerly I scarcely believed."

Junior Livestock Show Winner Is Freshman in the School of Agriculture



Raymond Sullivan of New Prague and His Shropshire Lamb Which Won the Grand Champion Honors at the 1922 Junior Livestock Show.

NEVER 'LL FORGET FARM CAMP DAYS

Boys having outstanding records in club work are being selected, two from each county, for membership in the farm boys' camp of the 1924 Minnesota State Fair. A few of the larger counties can have three boys in camp, so that the total membership will be somewhere between 175 and 200.

Carl Malmberg of Lafayette, Minn., was a member of the 1923 camp and had a week of such real enjoyment that he is not going to forget it even if he lives a hundred years. In a letter to T. A. Erickson, the state club leader, he says:

"When our county agent told me I could go to the farm boys' camp at the state fair, I would not have been so well pleased if I had gotten a hundred dollars. I was still more pleased with the great fair and the work and good fellowship we had at the camp."

DO YOU KNOW THAT—

Kenneth Law, class of '15, is chief instructor of the veterans' training section which centers at Mankato? Fifty-three war veterans are in training on their own farms in the southern Minnesota counties constituting the section. Mr. Law is enjoying his work and is performing valuable service for the former soldiers.

Albert S. Quam, who attended the school of agriculture in 1913, is running a dairy farm near Evansville, Minn., and is town clerk of Urness, Douglas county? Mr. Quam has been writing to University Farm for certain bulletins and pamphlets and intimates he is coming back some day to visit old familiar scenes and renew acquaintances made in school days.

Agnes Morell, class of '23, has accepted appointment as a junior club promoter to assist County Agent A. P. Henderson of Washington county. She was a junior club member before entering the School of Agriculture, and club leadership was the motive of her project work. The splendid record which she made in school coupled with her experience in club work landed the Washington county position for her, says T. A. Erickson, state club leader.

Knute B. Norswing of Los Angeles, class of '03, is an orange and walnut grower in California and also has farming interests in Minnesota? Mr. Norswing recently visited his brother-in-law, T. A. Hoverstad of St. Anthony Park, and of course spent many happy hours with old time schoolmates and friends at University Farm. He is a successful real estate dealer and is said to be owner of one of the finest office buildings in Los Angeles.

James B. Berry, class of '08, is now vocational supervisor of the schools of Crawford county, Pennsylvania? After finishing his studies at University Farm, Mr. Berry went to Germany for travel and investigation. On his return to the states he accepted a professorship in the Georgia School of Forestry at the University of Georgia where he remained several years. A copy of the Crawford county school directory, recently received by Dr. A. V. Storm, carries a statement from Mr. Berry on the problem and project methods of teaching.

HERE'S AN ANSWER TO THE QUESTION, WHY THE BOYS' AND GIRLS' CLUB

The object of the boys' and girls' clubs, organized and conducted by co-operative agricultural extension workers, is to aid in the establishment of better practices in agriculture and homemaking through the agency of farm boys and girls in such a way that the boys and girls themselves may be kept in touch with the best in rural life and may develop leadership, community responsibility and citizenship.—Official Record, U. S. Department of Agriculture.

NEW FUMIGANT DEvised; "U" ASKS FOR PATENT

Authorities of the University of Minnesota have applied for letters patent for a mixture of chloropicrin and carbon tetrachloride as a fumigant for destroying insects which infest the stored grain of the farmer and elevator man and food products manufactured by the mill man, and handled by the merchant. The combination fumigant was devised by Dr. R. N. Chapman of the division of entomology and economical zoology, University of Minnesota, and has given highly satisfactory results under a variety of rigid tests. Expense money for carrying on the work required of Dr. Chapman and his assistants was furnished by the Underwriters' Grain association and the Mutual Fire Prevention Bureau which gave a sum approximating \$1,000.

In moving for a patent the university has no money making plans for itself in view. If the formula is patentable, the university desires to have a patent in its name so that no individual or groups of individuals can monopolize trade in or manipulate prices of the new fumigant.

Dr. Chapman estimates its cost will be between 50 and 75 cents a pound. While it is more expensive pound for pound than carbon disulphide, which has been discarded by the underwriters because of its highly explosive and inflammable nature, it will go much further and cost little if any more, one pound of it being equivalent to eight or ten pounds of disulphide.

"Of all liquid fumigants under test, chloropicrin is the most promising," says Dr. Chapman. "It was used in the war as a tear gas and it is so extremely irritating that the operator must use a gas mask or keep out of its way. It is much more deadly to insects than carbon disulphide and has great powers of penetration with no fire hazard, which is a decided advantage in fumigating grain and flour. By combining it with carbon tetrachloride, volatility or evaporation is increased, and we get a more useful fumigant, the best, I believe, that has been originated.

"What is wanted is a fumigant which is heavier than air, poisonous to insects, non-injurious to human food or the germs of grains, and at the same time capable of being dispersed readily when the fumigation is over. All these requirements seem to be met in this new combination."

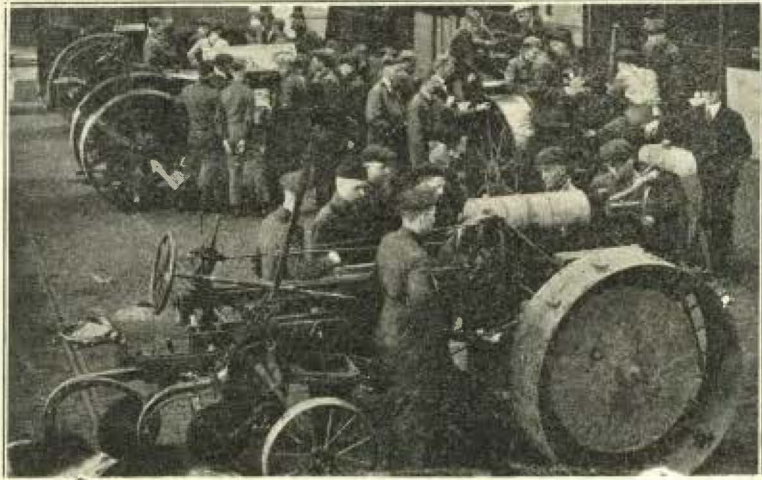
SODATOL SALES HEAVY; NOW'S TIME TO ORDER

Farmers of the cutover districts of Minnesota are not downhearted.

This is apparent from the fact that they are buying more explosive for land clearing purposes than ever before. Since January 1, 1924, they have placed orders with the division of agricultural engineering at University Farm, St. Paul, for 662,700 pounds of sodatol, war material which Uncle Sam had left over after his brush with Germany.

Another big land clearing year, probably the biggest Minnesota has known, is forecast. University men predict total sales of a million and a quarter pounds of sodatol this spring and fully as much more for the fall campaign.

WHAT CAN A YOUNG MAN GAIN BY ATTENDING SCHOOL OF AGRICULTURE?



Tractor Work Is an Essential Part of the Training for the Modern Farm.

First: He can prepare himself to make farming a paying business.

Second: He can learn about machinery, gas engines, and tractors.

Third: He can prepare himself to take a position as (a) Manager of a cow-testing association. (b) Manager of a co-operative association. (c) Herdsman in beef or dairy herd. (d) Manager of a large farm. (e) Soil tester. (f) Landscape gardener and greenhouse man.

Fourth: He can prepare to enter college by taking extra work.

Fifth: He can get an all-around practical education that will be useful to him in whatever vocation he may enter.

Sodatol is cheap in comparison with other explosives. Its cost laid down at the average point in the state is only about three cents a stick. A stick of sodatol is as effective in clearing land as is a stick of 40 per cent dynamite. It can be bought for half the price of dynamite. No wonder the farmer with stump land is buying it, realizing as he must that this is one chance in a lifetime to obtain land clearing material at bedrock prices.

The average cutover land farmer also realizes that he must have more cleared acres before his farm is on a self supporting basis. This is another reason for investments in sodatol at this time.

Sodatol shipped in small lots from either St. Paul, Bemidji or Virginia costs \$6.85 a hundredweight. If orders are pooled in carload lots from Barksdale, Wis., the cost is only \$5.07 a hundred pounds. All orders should be forwarded to the Division of Agricultural Engineering, University Farm, St. Paul. Get them in early and avoid the inevitable rush.

Everybody Getting Interested

Judged by the degree of interest taken by all kinds of people, the year 1923 was the best year for boys' and girls' club work Minnesota has ever known. So says T. A. Erickson, the state leader. This interest will, no doubt, continue to grow, and junior club work will attain heights in future years never dreamed of by early workers and leaders.

Lucille Hanson of Rose Creek pronounced the Chicago trip of wonderful educational value and added, "I surely am glad I took up club work."

JACK PINE UNDER FIRE OF 2 INSECT SPECIES

The jack pine of northern Minnesota and Wisconsin is under attack by two species of the pine sawfly, according to S. A. Graham, forest entomologist of the University of Minnesota. This combination complicates a situation which was already serious enough. Studies of pine sawfly outbreaks in foreign lands have usually shown that where destruction of the pine was complete, two or more species of insects were involved in the tragedy.

Settlers in the timber country can perform a real service for the state and also help themselves by reporting any injury to jack pine stands to Dr. Graham at University Farm, St. Paul. As collaborator for the University of Minnesota he has been placed in charge of forest insect work in the lake states—Minnesota, Wisconsin and Michigan—by the government bureau of entomology.

"We will need all the help we can get from the people of the three states," says Dr. Graham. "The life history and habits of the insects defoliating and killing the jack pine must be determined. We must also study the effects of different environmental conditions upon the pests and work out control measures that can be applied economically. It will also be our duty to determine the regions where further injury is likely to occur, so that steps may be taken in advance to meet the situation."

SHORT COURSE DAYS CLOSE BY

Happy days ahead at University Farm. The fourteenth annual short course for boys and girls will be held at the farm April 14 to 19, which is the general vacation week for the schools of Minnesota. Work, play, sight seeing, and entertainment will be so mixed that there will not be a dull moment during the course.

Any boy or girl in Minnesota between the ages of 10 and 21 can register for the course. Each should bring pencil and notebook, for each will be required to attend classes regularly. Parents and teachers are invited to come along with the boys and girls. The same rates and accommodations offered the juniors will also be given the grownups.

Railroads Will Help

Several factors are expected to increase the attendance this year over the attendance of previous courses. Three railroads will co-operate with the agricultural extension service in providing funds to bring two club members in each county through which these roads pass to University Farm. The lucky club members will be selected by the county agents and other extension workers. This action by the railroads means increased attendance, because boys and girls will be brought to University Farm from remote counties which otherwise would not be represented. More than 150 free trips will be provided, says T. A. Erickson, the state leader. In addition to the offer by the railroad companies some of the counties are raising funds to pay the expenses of some member of every club in the county.

The Daily Program

No class work will be done the first day. The young folks will spend the forenoon in registering and getting settled, and in the afternoon will be whisked away to points of interest in the twin cities. Regular class work will begin early Tuesday, April 15, and continue for four forenoons. The lessons taught will pertain to projects in which active and healthy farm boys and girls are interested, such as the dairy, baby beef, sheep, hogs, poultry, gardening, potatoes, corn, breadmaking, canning, and sewing. Teachers from the school and college of agriculture will instruct. Sight seeing trips about the twin cities and excursions to the state's prison at Stillwater and the stockyards at South St. Paul will be the outstanding feature of every afternoon. In the early evening programs for play and exercise will be presented at the gymnasium, followed by an entertainment of moving pictures, club songs and stunts and short talks at the auditorium.

The state leader announces that a prize will be awarded the club which has the largest delegation at the course.

Some Special Features

Several special events which will add to the interest of the week have been arranged. An advanced breadmaking contest for teams of two or three members from counties in the central district will take place during the week. The winning team from the district will take part in the state contest at the state fair. Railroad fare and the expenses for one day

at University Farm of all the advanced breadmaking teams competing will be paid by the Russell Miller Milling company of Minneapolis, which also will pay the expenses of the winning team to the state fair and of the state champion team to the National Club Exposition at Chicago in the fall.

General livestock and dairy cattle judging contests may also be arranged. A two-day conference for club leaders and other workers will be held.

Short Courses for Everybody

Unless the attendance is way above the average all boys and girls can be housed in the dormitories at University Farm for \$1.50 for the week. Good meals can be had on the cafeteria plan, the patron paying according to his choice of food.

Similar short courses will be held at Morris March 25 to March 28 and at Crookston March 31 to April 4. County short courses for boys and girls have already been held at different points over the state, with attendance ranging from 50 to 175. Between all these events and the major one at University Farm the boys and girls of Minnesota should have a week of real enjoyment and profit.

Other Objects, Too

The purpose of boys' and girls' dairy calf clubs, says T. A. Erickson, the state leader, is to teach young folks how to develop the best possible dairy cow by the proper feeding and care of the high grade or purebred calf. Another object is to have club members demonstrate to others what they themselves have accomplished.

CREATES RIGHT KIND O' APPETITE

Organized club work creates an appetite for agricultural education. Several club juniors who have made state records are now attending the Minnesota School of Agriculture at University Farm. Among these are Joseph Isaksen of Brown county, who won the grand championship in baby beef work in 1922; Raymond Sullivan of Le Sueur county, who won the grand championship in sheep club work the same year; Gordon Sayers of Dakota county, the winner of state honors in sheep work in 1921; Albert Conzemius of Dakota county, the state champion in pig club work in 1921; Stephen Easter of Kittson county, who won two state records in stock judging; Arvid Sponberg of Waseca county, who has to his credit several state winnings in baby beef work, and Joseph Brooks of Hennepin county, the state winner in poultry work for 1922. Many other club members, past and present, are attending the schools at Crookston and Morris.

1,500 in Calf Clubs

More than 1,500 boys and girls in Minnesota, representing 65 clubs in 59 counties, were members of dairy calf clubs in 1923. The calves and heifers owned by these club members were worth \$182,227. Of the members, 761 had stock of the Holstein breed, 540 had Guernseys, 142 preferred Jerseys, while a few exhibited the Ayrshire and Brown Swiss.

SEE WHAT WE
CAN DO?
ISN'T IT WORTH
WHILE?
SURE IT IS
WHY NOT JOIN
A CLUB
AND LEARN TO
MAKE GOWNS
AND OTHER
PRETTY
THINGS?



FROM LEFT TO RIGHT—FLORENCE GRABER AND ROSELLA LARSON, SAUK CENTER GARMENT MAKING TEAM, WHO TIED WITH COLERAINE FOR FIRST PLACE IN THE 1923 CONTEST AT STATE FAIR.