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PROGRAM

Thirtieth Annual

FARM AND HOME WEEK

February 15-20, 1937

New York State Colleges of
Agriculture and Home Economics

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INFORMATION

Information bureau. Visitors may apply to the information bureau on the first floor of Roberts Hall for mail and information. Lost and found articles should be reported here.

Registration. Visitors are requested to register in Roberts Hall and to procure a program. Former students should indicate that fact on the registration card and should give their occupation.

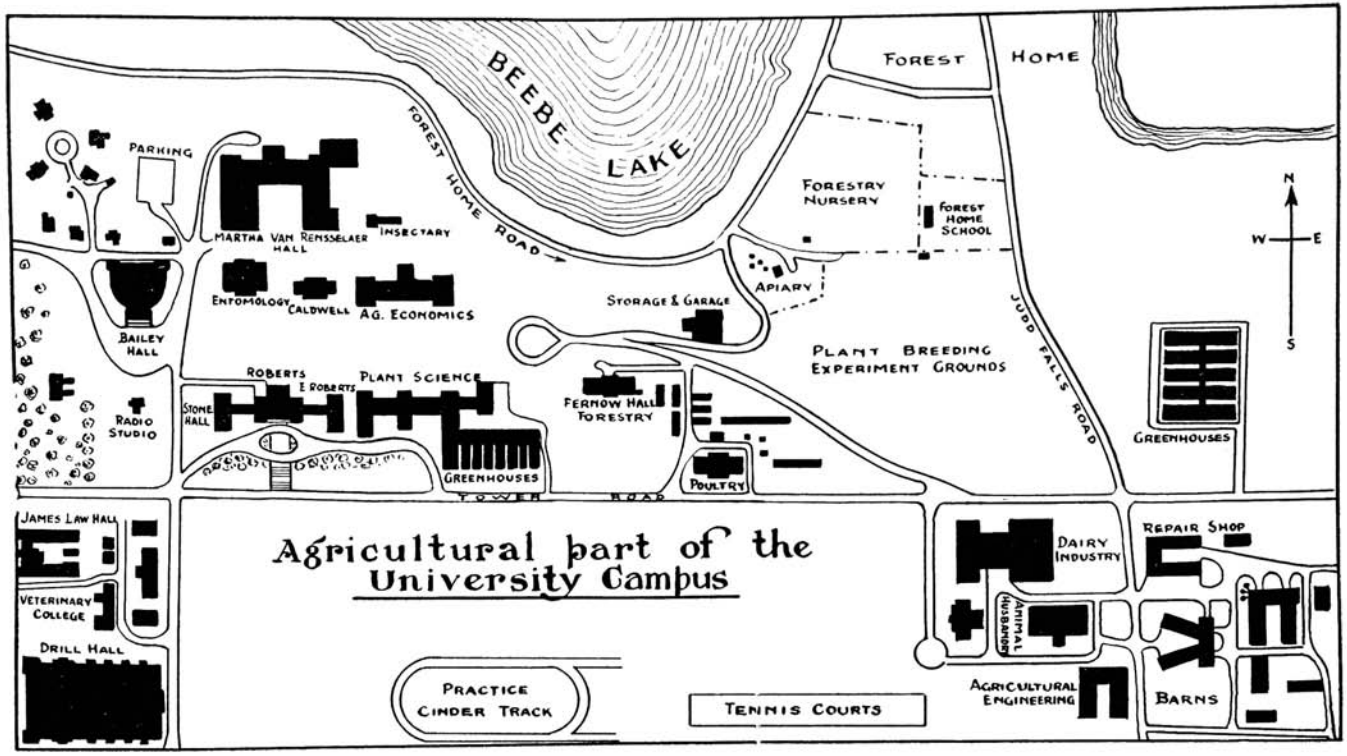
Mr. A. W. Gibson, of the Secretary's Office, is collecting information on former students of the College, and will be glad to assist them in getting information about their classmates and acquaintances.

Room and board. A directory of available rooming and boarding places may be found in Roberts Hall, first floor. Plans have been made to insure comfortable accommodations for all visitors.

Checking room. On the first floor of Stone Hall is a room in which coats and parcels may be checked free of charge.

Lecture rooms and laboratories. The rooms of the buildings of the Colleges of Agriculture and Home Economics are numbered independently. All rooms on the first floor bear numbers in the first hundred, those on the second floor in the second hundred, and so on. The location of demonstrations and lectures is indicated by giving the name of the building and the number of the room; thus, Poultry 300 is a lecture room on the third floor of the Poultry Building.

Meals. The cafeteria in Martha Van Rensselaer Hall is open from 7.15 to 9.15 a.m. daily; from 11.30 a.m. to 1.30 p.m., Monday and Saturday; from 11.15 a.m. to 2 p.m. Tuesday through Friday; and from 5.30 to 7 p.m. daily except Saturday. A 25-cent luncheon will be available at noon and a 40-cent dinner at night, and also lunches or full meals may be procured at regular cafeteria prices. In addition a lunch room is open from 11 a.m. to 2 p.m. from Tuesday through Friday on the second floor, center wing, Martha Van Rensselaer Hall; on the ground floor of the Plant Science Building from Monday through Friday; on the basement floor of the Dairy Building; and on the first floor of the Animal Husbandry Building. The tea room in Willard Straight Hall is open from 7.30 a.m. to 8 p.m. with table d'hote lunch from 11.55 a.m. to 1.45 p.m., and dinner from 5.45 to 8 p.m. The cafeteria in Willard Straight is open from 7.15 a.m. to 1.45 p.m. with luncheon from 11.30 a.m. to 1.45 p.m., and dinner from 5.30 to 7 p.m.



Agricultural part of the University Campus

LECTURES AND DEMONSTRATIONS

AGRICULTURE

MONDAY, FEBRUARY 15

For home-economics subjects, see page 23

(All lectures and demonstrations begin 10 minutes after the hour. Unless otherwise indicated, all speakers and demonstrators are members of the staff of Cornell University.)

9 a. m. Cost accounts on New York farms. P. S. Williamson. Agricultural Economics Auditorium

Farmers' mutual fire insurance. A. W. Peterson. Agricultural Economics 125

How to meet the vitamin-G (lacto-flavin) requirement of chicks and hens. A. E. Schumacher. Poultry 300

10 a. m. Consumer and retail demand for potatoes. P. J. Findlen. Agricultural Economics Auditorium

Cost of delivering milk in New York City. C. J. Blanford. Agricultural Economics 125

How to use the state egg-laying test in the breeding program. R. C. Ogle. Poultry 300

Care and management of dairy bulls. E. S. Savage. Animal Husbandry A

11 a. m. Social-security legislation. M. P. Catherwood. Agricultural Economics Auditorium

Planning the location of hard-surfaced roads and of electric lines. T. E. LaMont. Agricultural Economics 125

Corn and other crops for silage in New York. Repeated Wednesday at 9 a. m. G. H. Serviss. Caldwell 100

The home fruit planting. J. Oskamp. Plant Science 143

Watermelons and muskmelons. Paul Work. East Roberts 222

Suggestions for rearing chicks in 1937. L. M. Hurd. Poultry 300

Demonstration: Killing beef. (Until 1 p. m.) R. B. Hinman and C. D. Schutt. Animal Husbandry Meat Laboratory

12 m. Lime as an aid in maintaining New York soils. Repeated Thursday at 9 a. m. E. VanAlstine. Caldwell 100

The use of labor on dairy farms. L. C. Cunningham. Agricultural Economics Auditorium

How to improve the quality of new-laid eggs. G. O. Hall. Poultry 300

The work of the assessor and the tax collector. F. F. Hedlund. Agricultural Economics 125

1 p. m. Motion pictures. Bailey Auditorium

Spray-service-trouble hour. Discussion of insect- and disease-control problems with individual growers. W. D. Mills and J. A. Evans. Plant Science 141

2 p. m. Welcome to the Thirtieth Annual Farm and Home Week. Carl E. Ladd, Dean of the New York State Colleges of Agriculture and Home Economics, and Flora Rose, Director of the College of Home Economics. Auditorium, Martha Van Rensselaer Hall

Students' livestock-judging contest. Competition in judging dairy cattle, beef cattle, horses, sheep, and swine. Open to students enrolled in Cornell University. Round-up Club in charge. Judging Pavilion

3 p. m. The farm vegetable garden. Repeated Friday at 9 a. m. A. J. Pratt. East Roberts 222

The growing of feed-grain crops on dairy farms. Repeated Saturday at 10 a. m. W. D. Swope. Plant Science 141

Farm-to-market roads: where and why. W. M. Curtiss. Agricultural Economics Auditorium

Milk retailing by farmers. E. M. Hughes. Agricultural Economics 125

Cost of horse labor on New York farms. P. A. Henderson. Agricultural Economics 225

The Northeastern program for handling new-laid market eggs. (Illustrated.) H. E. Botsford. Poultry 300

Demonstration: Grafting apple trees to change the variety or to repair injury. Repeated Friday at 3 p. m. N. F. Childers. Plant Science 143

Lecture-demonstration: The making of butter on the farm. E. S. Guthrie. Dairy 120

4 p. m. Aids to bird study. (Illustrated with sound recording.) Paul Kellogg. Plant Science 233

Whence comes the deed to your farm. Jared VanWagenen, Jr., Lawyersville, New York. Agricultural Economics Auditorium

The possibilities of soybeans in New York agriculture. Repeated Thursday at at 11 a. m. R. G. Wiggans. Plant Science 141

Discussion: Refrigerated storages for the fruit farms. E. L. Arnold. Plant Science 143

How to fit hand and pruning saws. L. M. Roehl. Agricultural Engineering Laboratory

Demonstration: Selecting hens, pullets, and male birds for standard characteristics. G. O. Hall. Poultry 305

Display: Quality in meat. Animal Husbandry Meat Cutting Room

5 p. m. Recording bird songs in the Adirondacks. (Illustrated with sound motion pictures.) A. R. Brand. Plant Science 233

Recreation hour. Evelyn Nance and William Smith in charge. Auditorium, Martha Van Rensselaer Hall

Evening

6 p. m. Community singing. John R. Jones, New York City, leader. Martha Van Rensselaer Hall 124

6.15 p. m. Dinner for members and families of Epsilon Sigma Phi. Forest Home Inn

8 p. m. Rice debate stage. A debate on the subject, "*Resolved*, That the township unit of government is the most efficient unit of local government for the services now rendered by the townships in New York State." Prizes of $100 and $25 are given by Professor Emeritus James E. Rice. Agricultural Economics Auditorium

TUESDAY, FEBRUARY 16

For home-economics subjects, see page 23

(All lectures and demonstrations begin 10 minutes after the hour. Unless otherwise indicated, all speakers and demonstrators are members of the staff of Cornell University.)

8.30 a. m. Conference for song leaders. John R. Jones. Recreation Room, Willard Straight Hall

9 a. m. Effect of light on plants in the home and garden. E. P. Hume. Plant Science 37

Planning a commercial apple orchard: location, planting systems, and the like. J. Oskamp. Plant Science 143

The place of superphosphate and manure in maintaining New York soils. G. H. Serviss. Caldwell 100

Our changing local government. M. P. Catherwood. Agricultural Economics Auditorium

The results of my Bang's-disease-elimination program. (Until 9.30 a. m.) Earl D. Crocker, Sennett, New York. Animal Husbandry A

A program for eliminating Bang's disease. (At 9.30 a. m.) R. R. Birch. Animal Husbandry A

The problem of ventilating poultry houses. A. M. Goodman. Poultry 300

Some suggestions to prospective purchasers of farms. Repeated Saturday at 9 a. m. T. E. LaMont. Agricultural Economics 125

Round-table discussion: Insects, diseases, and cultural problems with the production of vegetables for canners. C. B. Sayre, Hugh Glasgow, Charles Chupp, and C. B. Raymond. East Roberts 222

Demonstration: Multiple hitches for draft horses. (Until 11 a. m.) M. W. Harper and R. M. Watt. Judging Pavilion

10 a. m. A program for the rural church. Malcolm Dana, Director, Town and Country Department, Congregational Church Extension Boards, New Haven, Connecticut. Agricultural Economics 225

Forest cover and erosion control in Europe. R. S. Hosmer. Fernow 122

What I have done to control mastitis. (Until 10.30 a. m.) Earl Beckwith, Ludlowville, New York. Animal Husbandry A

A plan for the control of mastitis. (At 10.30 a. m.) D. H. Udall. Animal Husbandry A

The New York farm-horse situation. M. W. Harper. Animal Husbandry C

The dairy outlook. L. C. Cunningham. Agricultural Economics Auditorium

Truck-crop production and prices. E. G. Misner. Agricultural Economics 125

How to plan rotations that insure good crop yields and prevent soil depletion. J. H. Barron. Caldwell 100

Granulated versus powdered fertilizers for vegetables. C. B. Sayre. East Roberts 222

Raising ornamental plants from seed. H. T. Skinner. Plant Science 37

Strawberry growing, with particular reference to the prevention of losses at planting time. M. B. Hoffman. Plant Science 143

The importance of bees in agriculture. G. H. Rea. Comstock 145

The cause and prevention of perosis (slipped tendon) in chicks. W. D. Gallup. Poultry 300

Heating, ventilating, and air-conditioning animal shelters. Repeated Friday at 10 a. m. (Followed by tour at 11 a. m.) F. L. Fairbanks. Dairy 119

11 a. m. The world price level. F. A. Pearson. Agricultural Economics Auditorium

The community church. Barclay Acheson, President of the Community Church Workers of United States of America, New York City. Agricultural Economics 225

The present status of cattle-disease elimination in New York State. H. B. Leonard, United States Inspector in charge, Washington, D. C. Animal Husbandry A

The value of hardwood forest in erosion control. J. N. Spaeth. Fernow 122

Development of American beekeeping. E. F. Phillips. Comstock 145

Variety, seed, and fertilizer problems with field beans. E. V. Hardenburg. East Roberts 222

Soils and fertilizers for the garden. Kenneth Post. Plant Science 37

Foreign and domestic red clover. F. P. Bussell and R. G. Wiggans. Plant Science 141

Keeping raspberry plants healthy. L. M. Cooley. Plant Science 143

The practical control of erosion on good soils of New York. (Illustrated.) A. F. Gustafson. Caldwell 100

The farm water supply. B. A. Jennings. Dairy 119

Artificial incubation and its stumbling blocks. A. L. Romanoff. Poultry 300

Business meeting of the New York Seed Improvement Cooperative Association, Inc. (Will be adjourned until 12 m.) Agricultural Economics 325

12 m. The present status and outlook for regional markets. H. E. Crouch, Department of Agriculture and Markets, Albany, New York. Agricultural Economics Auditorium

Forum: Progress in rural-church cooperation. Ralph Williamson, Slaterville, New York, presiding. Speaker, K. A. Roadarmel, Albion, New York. Agricultural Economics 225

Trends in labor requirement of New York farm crops. K. R. Bennett. Agricultural Economics 125

Making hay in spite of rain. Repeated Saturday at 10 a. m. J. K. Wilson. Caldwell 100

Codling-moth control. S. W. Harman. Plant Science 143

Vegetable-seed treatment. R. O. Magie. East Roberts 222

Trees from the woodlot to the lawn. C. J. Hunn. Plant Science 37

Breeding for improvement: Corn, oats, and barley. Repeated Thursday at 9 a. m. R. G. Wiggans and H. H. Love. Plant Science 141

Round-table discussion: Nutrition problems of interest to the animal husbandman. L. A. Maynard and C. M. McCay. Nutrition Laboratory, Dairy 160

1 p. m. Motion pictures. Bailey Auditorium

Spray-service-trouble hour. Discussion of insect- and disease-control problems with individual growers. W. D. Mills and J. A. Evans. Plant Science 141

Luncheon. New York Rural Christian Fellowship. Beulah Curl, Ithaca, New York, presiding. Barnes Hall

Business meeting of the New York Cooperative Seed Potato Association, Inc. Agricultural Economics 325

2 p. m. Some phases of the history of New York's agriculture. U. P. Hedrick, Director of the New York State Agricultural Experiment Station, Geneva, New York. Auditorium, Martha Van Rensselaer Hall

The production of beef cattle in the East. R. B. Hinman. Animal Husbandry A

3 p. m. Bird art, and the work of Louis Agassiz Fuertes. (Illustrated by lantern slides and original paintings.) George M. Sutton. Roberts Assembly

What has been learned about larger parishes in Tompkins County? Mark Rich. Agricultural Economics 225

Effect of mastitis on the composition of milk. (Until 3.30 p. m.) A. C. Dahlberg. Dairy 218

Are the mastitis organisms found in normal udders? (At 3.30 p. m.) G. J. Hucker. Dairy 218

How taxes in this country began. M. S. Kendrick. Agricultural Economics 125

Using my farm cost accounts. R. V. Call, Batavia, New York. Agricultural Economics Auditorium

Is it necessary to fertilize fruit trees with minor elements? A. B. Burrell. Plant Science 143

Lecture-demonstration: Decorative effects in flower arrangement. (Until 5 p. m.) Lucile Smith. Plant Science 233

How to recognize hardy trees and shrubs in winter. (Until 5 p. m.) (Illustrated by slides and fresh specimens.) R. W. Curtis and A. M. S. Pridham. Plant Science 29

Irrigation for New York State. B. B. Robb and G. J. Raleigh. East Roberts 222

Soybeans as a hay, grain, or silage crop. Repeated Friday at 11 a. m. W. D. Swope. Plant Science 141

How New York's milk supply is utilized. C. W. Pierce. Agricultural Economics 201

A report on grain-seed inspection and on potato breeding. F. P. Bussell and J. R. Livermore. Agricultural Economics 325

Respiratory diseases of chickens: colds, roup, coryza, and others. E. L. Brunett. Poultry 300

How to build a septic tank. J. C. McCurdy. Dairy 119

How to gum, file, and set cross-cut and circular saws. L. M. Roehl. Agricultural Engineering Laboratory

A symposium: A livestock program from the standpoint of forages, pastures, and soil conservation. (Until 5 p. m.) W. T. Crandall, chairman. Animal Husbandry A

Forages. J. H. Barron
Pastures. D. B. Johnstone-Wallace
Soil conservation. Roy A. Porter, Elba, New York

Forum: The place of lime, superphosphate, legumes, and grasses in maintaining and increasing the fertility of New York soils and in the New York State Agricultural Conservation program. (Until 5 p. m.) Leaders, E. Van Alstine and G. H. Serviss. Caldwell 100

Laboratory lessons on apple scab. (See page 37. Admission by free ticket only.) H. H. Whetzel. Plant Science 341

4 p. m. Getting along with life. E. R. Eastman, Editor, *American Agriculturist*, Ithaca, New York. Agricultural Economics Auditorium

Birds and their relation to agriculture. (Illustrated.) Paul Kellogg. Roberts Assembly

Lecture-demonstration: Decorative effects in flower arrangement. (Continued.) Lucile Smith. Plant Science 233

Organic matter and moisture supply in typical orchard-soil types. D. Boynton. Plant Science 143

Some results of potato spraying in up-state New York in 1936. E. O. Mader. Agricultural Economics 325

Milk houses: their construction and equipment. B. A. Jennings and H. J. Brueckner. Dairy 218

What are the best varieties of wheat? Repeated Thursday at 12 m. H. H. Love. Plant Science 141

Conference on irrigation for New York State. (Until 5 p. m.) B. B. Robb and G. J. Raleigh in charge. East Roberts 222

Forum: The place of lime, superphosphate, legumes, and grasses in maintaining and increasing soil fertility. (Continued.) Caldwell 100

Demonstration: Methods of killing and dressing poultry for market. L. M. Hurd. Poultry Killing Room

Demonstration: Caponizing poultry. F. E. Andrews. Poultry 305

Display: Quality in beef. Animal Husbandry Meat Cutting Room

Round-table: Dairy-herd-improvement associations, and business meeting of the New York Guild of Gopatis. L. T. Hull, President, Castile, New York, presiding. Animal Husbandry E

Symposium: A livestock program from the standpoint of forages, pastures, and soil conservation. (Continued.) Animal Husbandry A

Students' horsemanship and decorating contest. Competition open to students enrolled in the College of Agriculture. M. W. Harper and R. M. Watt, in charge. Judging Pavilion

5 p. m. The courtship and home life of birds. (Illustrated with colored lantern slides and motion pictures.) A. A. Allen. Roberts Assembly

Annual meeting of the New York State Breeders' Association. Myron M. Fuerst, Pine Plains, New York, presiding. Animal Husbandry C

Recreation hour. Evelyn Nance and William Smith in charge. Auditorium, Martha Van Rensselaer Hall

5.45 p. m. Exhibition broadcast. (Until 6.30 p.m.) Cornell University Student Radio Guild. University Theatre, Willard Straight Hall

Evening

6 p. m. Community singing. John R. Jones, leader. Martha Van Rensselaer Hall 124

Banquet for members of the New York State Breeders' Association, the New York State Dairymen's Association, the Honorary Guild of Gopatis, and the Dairy Commodity Committee of the New York State Farm Bureau Federation. Willard Straight Hall

Banquet for members and friends of the New York State Federations of Farm Bureaus, Home Bureaus, and 4-H Clubs. (Reservations may be made at

the Information Desk in Martha Van Rensselaer Hall.) Willard Straight Hall

8 p. m. Concert by the Cornell University Orchestra. George L. Coleman, conductor. Bailey Auditorium

WEDNESDAY, FEBRUARY 17

For home-economics subjects, see page 25

(All lectures and demonstrations begin 10 minutes after the hour. Unless otherwise indicated all speakers and demonstrators are members of the staff of Cornell University.)

8.30 a. m. Conference for song leaders. (Until 10 a. m.) John R. Jones. Recreation Room, Willard Straight Hall

9 a. m. The demand for farm products. Repeated Saturday at 11 a. m. F. A. Harper. Agricultural Economics Auditorium

Plumbing and equipment for a hot-water supply in the home. Repeated Friday at 9 a. m. F. B. Wright. Dairy 119

Irrigating vegetables. G. J. Raleigh. East Roberts 222

Garden design. J. P. Porter. Plant Science 233

Methods of pruning apple trees. (Illustrated.) L. H. MacDaniels. Plant Science 143

Corn and other crops for silage in New York. G. H. Serviss. Comstock 245

The use of artificial illumination for the poultry flocks. W. F. Lamoreux. Poultry 300

The forestry program of the soil-conservation service in New York State. Weston Donehawer, Soil Conservation Service, Bath, New York. Fernow 122

A report on the seed-potato inspection during 1936. K. H. Fernow. Agricultural Economics 325

Land classification and rural-highway and electric programs in Genesee, Monroe, and Wyoming Counties. J. N. Efferson and H. R. Kling. Agricultural Economics 125

Land classification and rural-highway and electric programs in Clinton County. O. H. White. Agricultural Economics 225

The separation and care of cream on the farm. Repeated Friday at 9 a. m. E. S. Guthrie. Dairy 218

A complete breeding program for New York State dairymen. L. W. Lamb. Animal Husbandry A

Round-table: Problems of the New York State sheep owner and feeder. (Until 11 a. m.) J. P. Willman, in charge. Animal Husbandry C

Lecture-demonstration: Potato-digging equipment. Repeated Friday at 10 a. m. C. N. Turner. Agricultural Engineering Laboratory

10 a. m. The place of the rural bank in the farm program. Otis Thompson, Chairman, Agricultural Committee of the New York State Bankers' Association, Norwich, New York. Agricultural Economics Auditorium

Making our herd-improvement records more accurate and valuable. O. E. Reed, Bureau of Dairy Industry, United States Department of Agriculture, Washington, D. C. Animal Husbandry A

Autumn glories among trees and shrubs. (Illustrated in natural colors.) Donald Wyman, Jamaica Plains, Massachusetts. Plant Science 233

Legumes as aids in maintaining the nitrogen supply of New York soils. T. L. Lyon. Caldwell 100

Vitamin C, pasteurization, and the oxidized flavor of milk. P. F. Sharp. Dairy 218

The seed situation for this season. M. T. Munn. Agricultural Economics 325

Cabbage yellows and resistant varieties. Otto A. Reinking. East Roberts 222

Breeding oats for yield and smut resistance. H. H. Love. Plant Science 141

Promising new varieties of fruits. R. Wellington. Plant Science 143

Rats and their control. W. J. Hamilton, Jr. Comstock 145

Adventuring in planning community development. R. A. Polson. Agricultural Economics 225

The making of quality maple sirup. J. A. Cope. Fernow 122

Rearing turkeys in New York State. E. Y. Smith. Poultry 300

The farm shop and tool equipment. L. M. Roehl. Agricultural Engineering Laboratory

Round-table: Problems of the New York State sheep owner and feeder. (Continued.) Animal Husbandry A

11 a. m. Some current problems of agriculture. G. F. Warren. Bailey Auditorium

The value of attractive farmsteads to the owner and the community. Jared VanWagenen, Jr. Plant Science 233

Why should farmers be interested in double-crossed corn? Repeated Friday at 3 p. m. R. G. Wiggans. Plant Science 141

The kinds of soils in New York: Why some are good and others not so good. F. B. Howe. Caldwell 100

Apple spray problems in eastern New York. P. J. Chapman. Plant Science 143

The control of cabbage worms and cucumber beetles. G. E. R. Hervey. East Roberts 222

Results of four-years feeding trials with young turkeys. G. F. Heuser. Poultry 300

Current progress in agricultural engineering. H. W. Riley. Dairy 119

The importance of type in herd improvement. E. S. Harrison. Animal Husbandry A

Cottage cheese and other soft unripened cheeses. W. E. Ayres. Dairy 218

Demonstration: Killing lambs. (Until 1 p. m.) R. B. Hinman and C. D. Schutt. Animal Husbandry Meat Laboratory

Meeting of the New York Shropshire Breeders' Association. Laurence VanVleet, President, Lodi, New York, presiding. Animal Husbandry C

12 m. What is the meaning of soil conservation? H. F. Eaton, Soil Conservation Service, Williamsport, Pennsylvania. Caldwell 100

Farm credit in the Northeastern States. E. H. Thomson, President. Federal Land Bank, Springfield, Massachusetts. Agricultural Economics Auditorium

Predicting success in marriage. Repeated Friday at 11 a. m. L. S. Cottrell, Jr. Agricultural Economics 225

How to buy the most feed for $1.00. E. S. Savage. Animal Husbandry A

The latest information on turkey diseases. E. L. Brunett. Poultry 300

Developments in washing fruits. M. B. Hoffman. Plant Science 143

Breeding for improvement: Cabbage and potatoes. Repeated Friday at 10 a. m. C. H. Myers and J. R. Livermore. Plant Science 141

Practical landscaping for the farm home. D. J. Bushey. Plant Science 233

Summer- and winter-squash varieties. W. D. Enzie. East Roberts 222

Round-table: Discussion of nutrition problems of interest to the animal husbandman. L. A. Maynard and C. M. McCay. Nutrition Laboratory, Dairy 160

Demonstration: Killing lambs. (Continued.) Animal Husbandry Meat Laboratory

Luncheon for sheep breeders and sheep feeders. Terrace Room, Willard Straight Hall
The golden hoof on New York State farms. By prominent sheepmen
The awarding of the Buffalo Stockyards trophy to the county winning the Empire State Sheep and Lamb Production Contest.

1 p. m. Motion pictures. Bailey Auditorium

2 p. m. The new state and federal social-welfare laws. David C. Adie, State Department of Social Welfare, Albany, New York. Bailey Auditorium

Round-table: Turkey problems. L. W. Cramer, Baldwinsville, New York. Poultry 305

Reports on the research work in progress with sheep and lambs. J. P. Willman. Animal Husbandry A

2.30 p. m. State wood-chopping contest. County representatives who made the best records at local contests held in connection with woodlot-improvement meetings will compete for unofficial state championship. Baseball Cage

3 p. m. Legislative action affecting the livestock industry. Clayton G. White, Stow, New York. Animal Husbandry A

The Fuertes Memorial collection of birds at Cornell University. (Illustrated.) George M. Sutton. Plant Science 233

Early tomatoes. W. T. Tapley. East Roberts 222

Some marketing problems facing fruit and vegetable growers. M. P. Rasmussen. Agricultural Economics Auditorium

A summary of the progress made on yellow-dwarf and "Z" disease of potatoes. F. M. Blodgett. Plant Science 325

Fowl paralysis. Carl Olson, Jr. Poultry 300

The value of proper sterilization of dairy equipment. H. J. Brueckner. Dairy 119

The freezing preservation of fruits, fruit juices, and vegetables. D. K. Tressler. Plant Science 143

Should New York farmers grow malt barley? Repeated Friday at 12 m. F. P. Bussell. Plant Science 141

How to recognize woody evergreens hardy in New York State. (Until 5 p. m.) (Illustrated by lantern slides and fresh specimens.) R. W. Curtis and A. M. S. Pridham. Plant Science 29

Repairing the mowing machine. B. A. Jennings. Agricultural Engineering Laboratory

Shade-tree borers and their control. P. A. Readio. Comstock 145

How to grind drills, and six ways of drilling iron. L. M. Roehl. Agricultural Engineering Laboratory

Land classification and rural-highway and electric programs in Tompkins, Chemung, Tioga, Broome, Schuyler, Montgomery, and Rensselaer Counties. T. E. LaMont. Agricultural Economics 125

Land classification and rural-highway and electric programs in Cortland and Chenango Counties. E. H. Matzen and H. S. Tyler. Agricultural Economics 225

Land classification and rural-highway and electric programs in Steuben County. W. E. Keepper. Agricultural Economics 201

Forum: The soil-conservation-service program in New York State. (Until 5 p. m.) F. B. Howe, chairman. Caldwell 100

The New York soil-conservation program and the farmer. S. S. Greene, Soil Conservation Service, Ithaca, New York

Getting a farmer to sign in a soil conservation program. (A dialogue.) F. H. Eisenhard, Soil Conservation Service, Gallupville, New York, and W. C. Huff

Inspection of sheep barns, breeding flocks, and the experimental work in progress with sheep and lambs at the Waite Farm. Meet at Animal Husbandry Building, first floor. Transportation will be provided for those without cars

Round-table discussion: Planning recreation programs. William Smith in charge. Agricultural Economics 340

Laboratory lessons for farmers on grain smut. (See page 38. Admission by free ticket only.) M. F. Barrus. Plant Science 343

4 p. m. How to learn bird songs. (Illustrated by colored slides and phonograph records.) A. R. Brand. Plant Science 233

Concert by the Ithaca College Concert Band. Walter Beeler, Director. Bailey Auditorium

The corn ear-worm. L. A. Carruth. East Roberts 222

Round-table and question box on cultural problems of fruit. Members of the staff of the Department of Pomology. Plant Science 143

How to recognize woody evergreens hardy in New York State. (Continued.) Plant Science 29

Something ought to be done to improve the quality of seed grains planted on New York farms. W. F. Crosier. Agricultural Economics 325

Forum: The soil-conservation-service program in New York State. (Continued.) Caldwell 100

Round-table: Incubation problems. L. E. Weaver. Poultry 300

Demonstration: Sexing chicks. L. M. Hurd. Poultry 305

Round-table discussion: Problems involved in the handling or processing of milk and cream in the plant and the churning of butter in the dairy plant and creamery. Members of the staff of the Department of Dairy Industry. Dairy 119

Display: Quality in lamb. Animal Husbandry Meat Cutting Room

Dairy-cattle demonstration and judging contest. Competition open only to Farm and Home Week visitors. E. S. Harrison in charge. Judging Pavilion

Annual business meeting of the New York State Cooperative Bull Association, Incorporated. Animal Husbandry C

Round-table discussion: Forestry problems. (Until 5 p. m.) Members of

the staff of the Department of Forestry. Forestry Club Room, Fernow, fourth floor.

Exhibit and discussion of internal parasites in sheep and lambs. D. W. Baker. To be followed at 4.30 p. m. by demonstration of drenching sheep and docking and castrating lambs. H. A. Willman and G. L. Hunt. Sheep Barns, Waite Farm. Transportation from the Animal Husbandry Building to the sheep barns and return will be provided for those without cars.

5 p. m. How to attract birds. (Illustrated.) Paul Kellogg. Plant Science 233

Recreation hour. Evelyn Nance and William Smith in charge. Auditorium, Martha Van Rensselaer Hall

5.30 p. m. Business meeting of the Alumni Association of the New York State College of Agriculture. North Room, Willard Straight Hall

Evening

6 p. m. Community singing. John R. Jones, leader. Martha Van Rensselaer Hall 124

6.15 p. m. Alumni banquet. Informal reception and supper for all former, regular, special, and winter-course students and for members of the faculties of the Colleges of Agriculture and Home Economics. Tickets should be obtained at the Information Booth, Roberts Hall, before 12 o'clock. Willard Straight Hall

7.30 p. m. Young Farmers' amateur night. William Barnum, President of the Cornell Collegiate Chapter of Future Farmers of America, chairman, assisted by Richard Rozella and Harold Noakes. Bailey Auditorium

8 p. m. State festival in dramatics. Presentation of rural-community plays that have won recognition for excellence of selection and production. University Theatre, Willard Straight Hall. (An admission fee will be charged to help defray the traveling expenses of the casts.)

Hunting with a microphone. The songs of vanishing birds. A story of a 15,000-mile trip made by the Cornell University—American Museum of Natural History Ornithological Expedition for the purpose of studying and recording rare and vanishing species of birds. (Illustrated with sound motion pictures.) A. A. Allen. Auditorium, Martha Van Rensselaer Hall

THURSDAY, FEBRUARY 18

For home-economics subjects, see page 26

(All lectures and demonstrations begin 10 minutes after the hour. Unless otherwise indicated, all speakers and demonstrators are members of the staff of Cornell University.)

8.30 a. m. Conference for song leaders. John R. Jones. Recreation Room, Willard Straight Hall

Judging contests. Teams from high schools and state agricultural schools. Plant-disease identification. Charles Chupp in charge. Plant Science 343. (Inquire at Room 319)

Potato. E. V. Hardenburg in charge. Contestants must report at the new greenhouse between 8.30 a. m. and 12 m. (Contest begins at 1 p. m.)

9 a. m. Factors which affect the fat test of milk. L. A. Maynard. Animal Husbandry A

Western cream and eastern milk prices. Leland Spencer. Agricultural Economics Auditorium

New potato varieties and their adaptation and value in New York. E. V. Hardenburg. Agricultural Economics 201

Round-table discussion: Sanitary milk production on the farm. R. S. Breed. Dairy 218

The use of soybean oilmeal and other vegetable-protein supplements in poultry rations. J. C. Bauernfiend. Poultry 300

Increasing the durability of fence posts. C. H. Guise. Fernow 122

4-H potato growing. A. J. Pratt. East Roberts 222

The cultivation and use of hardy chrysanthemums and fall asters. S. E. Wadsworth. Plant Science 233

Breeding for improvement: Corn, oats, and barley. R. G. Wiggans and H. H. Love. Plant Science 141

The response of apple trees to applications of potash. R. C. Collison. Plant Science 143

Lime as an aid in maintaining New York soils. E. Van Alstine. Caldwell 100

Auction markets for eggs and poultry. A. VanWagenen. Agricultural Economics 125

The 1937 outlook for vegetable crops. T. N. Hurd. Agricultural Economics 225

How to get electricity to your farm. L. D. Kelsey. Agricultural Economics 325

Judging contests. Teams from high schools and state agricultural schools. Livestock. H. A. Hopper and H. A. Willman in charge. Judging Pavilion Poultry. G. O. Hall in charge. Poultry Breeding Observation House Farm-shop skills. L. M. Roehl. Agricultural Engineering Laboratory

10 a. m. New inspection methods for supervising the New York City milk supply. Sol Pincus, Deputy Commissioner of Health, New York City. Dairy 218

Investments for farmers. F. A. Pearson. Agricultural Economics Auditorium

Outdoor wintering of bees. E. F. Phillips. Comstock 145

The management and fertilization of the sod orchard. A. J. Heinicke. Plant Science 143

The present situation in cabbage breeding. C. H. Myers. Plant Science 141

The intelligent use of garden bulletins. Bristow Adams. Plant Science 233

Results of ten-years experiments with soil-improving crops as a substitute for manure. P. H. Wessels. East Roberts 222

Stopping future deterioration of good soils and finding uses for those that are somewhat depleted. J. A. Bonsteel, Soil Conservation Service, Williamsport, Pennsylvania. Caldwell 100

Farm-equipment costs. J. P. Hertel. Agricultural Economics 125

What we do with electricity on our farm. Mrs. Harry Little, Camillus, New York. Agricultural Economics 325

Recent developments in potato breeding. J. R. Livermore. Agricultural Economics 201

Log grades and lumber grades. A. B. Recknagel. Fernow 122

A report on the control of internal parasites of poultry. P. P. Levine. Poultry 300

The breeding program necessary for herd improvement. George M. White, Gayhead Farms, Coxsackie, New York, and E. S. Harrison. Animal Husbandry A

How to make good concrete. J. C. McCurdy. Dairy 119

Plows and plowing. B. A. Jennings. Agricultural Engineering Laboratory

Conference with high-school teachers of agriculture. W. J. Weaver, State Department of Education, Albany, New York. Animal Husbandry C

11 a. m. Types of farming in New York. G. F. Warren. Bailey Auditorium

Trees and shrubs for the small garden. (Illustrated.) (In cooperation with the Ithaca Garden Club.) Hugh Findley, Columbia University, New York City. Plant Science 233

Potato storage and marketing in Aroostook County, Maine. Daniel Dean, Nichols, New York. Agricultural Economics 201

Possibility of growing Iceberg lettuce in New York. H. C. Thompson. East Roberts 222

The possibilities of soybeans in New York agriculture. R. G. Wiggans. Plant Science 141

Some relationships between forest trees, soil saving, and the prevention of soil deterioration. R. F. Chandler. Caldwell 100

Peach insects. D. M. Daniel. Plant Science 143

Swarm control of bees. G. H. Rea. Comstock 145

Recent developments in the manufacture of commercial fertilizers. A. W. Clark. Comstock 245

Why some New York State poultry farms pay better than others. E. G. Misner. Poultry 300

Inspection methods for supervising the up-state milk supply. W. D. Tiedeman, State Department of Health, Albany, New York. Dairy 218

Folk festival to encourage community music and recreation. Mary Eva Duthie. Agricultural Economics 225

The importance of good-quality roughage in the dairy ration. W. T. Crandall. Animal Husbandry A

Inspection of beef-cattle barn, the beef-breeding herds, and the experimental steers. R. B. Hinman in charge. Meet at Animal Husbandry C

12 m. Farm-debt adjustment. D. V. Rivenburg, Resettlement Administration, New Haven, Connecticut. Agricultural Economics 125

The agricultural conservation program in New York State. Roy A. Porter, Chairman of New York State Committee, Elba, New York. Agricultural Economics Auditorium

Community improvement projects in Tompkins County. George Monroe, Tompkins County Development Association, Ithaca, New York. Agricultural Economics 225

Measuring the fertilizer needs of soils by crops and by chemical tests. E. V. Staker. Caldwell 100

What are the best varieties of wheat? H. H. Love. Plant Science 141

Pear insects. F. G. Mundinger. Plant Science 143

Garden maintenance. (Illustrated.) R. C. Allen. Plant Science 233

The psychology of propaganda. L. S. Cottrell, Jr. Agricultural Economics 125

Fertilizer placement for vegetables. C. B. Sayre. East Roberts 222

Round-table: Discussion of nutrition problems of interest to the animal husbandman. L. A. Maynard and C. M. McCay. Nutrition Laboratory, Dairy 160

Luncheon for Aberdeen Angus and Hereford Breeders. Forest Home Inn.
The view I get of beef-cattle breeding in New York State. E. Gilbert and Clayton Taylor

Luncheon for New York State Master Farmers and their families. Willard Straight Hall, Room D

1 p. m. Motion pictures. Bailey Auditorium

Spray-service-trouble hour. Discussion of insect- and disease-control problems with individual growers. W. D. Mills and J. A. Evans. Plant Science 141

1.30 p. m. Livestock parade. Judging pavilion

Young Farmers' conference. (See page 34.)

2 p. m. A day in the White House. Mrs. Franklin D. Roosevelt, Washington, D. C. Bailey Auditorium
A day as a Cabinet member's wife. Mrs. Henry Morganthau, Jr., Washington, D. C. Bailey Auditorium

Radio reception of the address being given by Mrs. Franklin D. Roosevelt and Mrs. Henry Morganthau in Bailey Auditorium, as broadcast by the University Radio Station WESG. WESG Studio and Agricultural Engineering Laboratory

Soil management and agricultural conservation. Richard Bradfield, Ohio State University, Columbus, Ohio. Roberts Assembly

Students' livestock show. A display of dairy cattle, beef cattle, horses, sheep, and swine. Prizes will be awarded to students at Cornell University who exhibit superior skill in fitting animals and in showmanship. Round-up Club in charge. Judges: Dairy cattle, George M. White, Gayhead Farms, Coxsackie, New York; horses and swine, Morton Adams, Watertown, New York; beef cattle, F. H. Leinbach, Colorado State College, Fort Collins, Colorado; sheep, William A. Moore, Binghamton, New York. Judging Pavilion

3 p. m. Communicable disease and its control. Thomas Parran, Jr., Surgeon General, United States Public Health Service, Washington, D. C. Bailey Auditorium

Problems of the small garden. (Illustrated with slides and natural colors.) (In cooperation with the Ithaca Garden Club.) Hugh Findley. Plant Science 233

Fruit-tree stocks and related problems. H. B. Tukey. Plant Science 143

The Canadian method of finishing poultry for market. L. H. Bemont. Poultry 300

Forum: The agricultural conservation program in New York and what it means to the farmers. (Until 5 p. m.) E. L. Worthen, chairman. Roberts Assembly
What is the agricultural conservation program in New York? Roy A. Porter

Varieties of corn for grain and ensilage. W. D. Swope. Plant Science 141

Grade A milk premiums and how to get more of them. M. W. Yale and H. J. Brueckner. Dairy 218

Modern lighting with electricity. (Illustrated.) F. B. Wright. Dairy 119

Problems in wild-life management as related to the farm. F. C. Edminister. Fernow 122

Some successful farms in 1936. G. P. Scoville. Agricultural Economics 125

Some observations on Puerto Rican agriculture. (Illustrated.) M. C. Bond. Agricultural Economics Auditorium

Some entomological phases of the Dutch-elm-disease problem. D. L. Collins. Comstock 145

The handling and storage of seed potatoes for best results. Ora Smith. Agricultural Economics 201

Low-cost wiring for the farm. Morris H. Lloyd, Buffalo, New York. Agricultural Economics 325

Round-table discussion: Insects, diseases, and cultural problems with the production of vegetables, including cabbage and cucumbers, for canners. C. B. Sayre, Hugh Glasgow, Charles Chupp, and C. B. Raymond. East Roberts 222

Students' livestock show. (Continued.) Judging Pavilion

4 p. m. Bird hunting in the Southwest. An account of three expeditions. (Illustrated with colored lantern slides.) George M. Sutton. Plant Science 233

Pictorial photography. (Illustrated.) W. C. Baker. Comstock 145

The State Troopers. Stephen McGrath, Captain, New York State Police, Oneida, New York. Agricultural Economics Auditorium

Why the wide-spread interest in soybeans? F. P. Bussell. Plant Science 141

The apple-variety situation, with suggestions for cross-pollination. L. H. MacDaniels. Plant Science 143

Survey of farm cold storages. E. L. Arnold. Agricultural Economics 325

Who is responsible for the bacteriological defects in market milk? C. N. Stark. Dairy 218

The control of potato scab, and seed treatment. C. F. Taylor and E. K. Cowan. Agricultural Economics 201

Round-table discussion: Planning drama programs for New York State communities. Mary Eva Duthie. Agricultural Economics 225

Forum: The agricultural conservation program in New York and what it means to the farmer who cooperates. (Continued.) Roberts Assembly

Round-table discussion: Methods of pullorum testing. E. L. Brunett. Poultry 300

Demonstration: Selecting hens, pullets, and male birds for egg-production characteristics. L. E. Weaver. Poultry 305

Display: Quality in beef. Animal Husbandry Meat Cutting Room

Students' livestock show. (Continued.) Judging Pavilion

5 p. m. Bringing them back to life. A demonstration of how the lifeless forms of museum habitat groups may be shown as if they were alive by means of motion pictures and sound production. A. A. Allen. Plant Science 233

Recreation hour. Evelyn Nance and William Smith in charge. Auditorium, Martha VanRensselaer Hall

5.45 p. m. Exhibition broadcast. (Until 6.30 p. m.) Cornell University Student Radio Guild. University Theatre, Willard Straight Hall

Evening

6 p. m. Community singing. John R. Jones, leader. Martha Van Rensselaer 124

6.30 p. m. The ninth annual Master Farmer Banquet. Willard Straight Hall. Presentation by *American Agriculturist* of the medals to the 1936 Master Farmers and of the junior awards, known as *4-A medals* to eight young people; two Boy Scouts on farms, two 4-H Club members, two high-school students in vocational agriculture, and two members of juvenile granges. Awards will be presented by the Honorable Herbert H. Lehman, Governor of the State of New York. (Reservations can be made by writing the *American Agriculturist*, Savings Bank Building, Ithaca, New York. Tickets are $1.50 each.)

8 p. m. Eastman Stage contest. Twenty-eighth annual speaking contest for prizes of $100 and $25 given by A. R. Eastman. Bailey Auditorium

Round-Up Club meeting. Presentation of awards to winners in the student livestock show. A cordial invitation is extended to all Farm and Home Week visitors to attend this meeting. Animal Husbandry A

FRIDAY, FEBRUARY 19

For home-economics subjects, see page 28

(All lectures and demonstrations begin 10 minutes after the hour. Unless otherwise indicated all speakers and demonstrators are members of the staff of Cornell University.)

8.30 a. m. Conference for song leaders. John R. Jones. Recreation Room, Willard Straight Hall

9 a. m. Conference on conservation education. E. L. Palmer, presiding. Conservation education and the soil-erosion service. Ernest G. Holt, United States Soil Conservation Service, Washington, D. C. Roberts Assembly

The price spread on milk. Leland Spencer. Agricultural Economics Auditorium

Color values in ornamental trees and shrubs. (Illustrated in natural colors.) A. M. S. Pridham. Plant Science 233

Variations in town receipts and expenditures. M. P. Catherwood. Agricultural Economics 125

The farm vegetable garden. A. J. Pratt. East Roberts 222

The grass-seed situation and seeding recommendations for 1937. Repeated Saturday at 9 a. m. J. H. Barron. Caldwell 100

Spray water for the orchard. (Illustrated.) B. A. Jennings. Plant Science 143

The poultry situation and outlook. A. VanWagenen. Agricultural Economics 225

The use of progeny test in poultry breeding. L. E. Weaver. Poultry 300

The separation and care of cream on the farm. E. S. Guthrie. Dairy 120

Plumbing and equipment for a hot-water supply in the home. (Illustrated.) F. B. Wright. Dairy 119

Pointers for profitable pork production. J. P. Willman. Animal Husbandry A

Young Farmers' conference. (See page 34.)

Judging contests. Teams from high schools and state agricultural schools. Apple identification. L. H. MacDaniels and E. F. Savage in charge. Plant Science 114

Milk. H. J. Brueckner in charge. Dairy 218

Farm-shop skills. L. M. Roehl in charge. Agricultural Engineering Laboratory

10 a. m. Conservation education in the State Conservation Department. Lithgow Osborn, State Conservation Commissioner, Albany, New York. Roberts Assembly

The outdoor living room. Mrs. H. P. Weld, Chairman, Committee of the New York State Federation of Garden Clubs, Ithaca, New York. Plant Science 233

Handling milk from the farmer's gate to the consumer's doorstep. (Illustrated.) R. M. Wellwood, Vice-President, Sheffield Farms Company, Inc., New York City. Agricultural Economics Auditorium

What it costs to produce vegetables in New York. T. N. Hurd. Agricultural Economics 225

Factors affecting costs and labor incomes on poultry farms. E. G. Misner. Agricultural Economics 125

The use of package bees. G. H. Rea. Comstock 145

The leaching of fertility from soils as a factor in the deterioration of New York farm lands. J. A. Bizzell. Caldwell 100

Soil factors influencing the productivity of orchards. J. Oskamp. Plant Science 143

Successful home storage of vegetables. G. J. Raleigh. East Roberts 222

Breeding for improvement: Cabbage and potatoes. C. H. Myers and J. R. Livermore. Plant Science 141

Woodlot management as a soil-conserving measure. J. D. Pond. Fernow 122

What we have accomplished through the poultry progeny test. Roy T. Argood, Norfolk County Agricultural School, Walpole, Massachusetts. Poultry 300

Pasteurization of milk for cheese-making. C. D. Kelly. Dairy 119

Heating, ventilating, and air-conditioning animal shelters. F. L. Fairbanks. Followed by tour at 11 a. m. Dairy 218

Experimental work with calves and its practical application. P. E. Newman and E. S. Savage. Animal Husbandry A

Demonstration and contest in judging beef cattle, horses, sheep, and swine. Competition open to Farm and Home Week visitors. (Until 12 m.) M. W. Harper, R. B. Hinman, J. P. Willman, and J. I. Miller in charge. Judging Pavilion

Lecture-demonstration: Potato-digging equipment. C. N. Turner. Agricultural Engineering Laboratory

11 a. m. The price outlook. G. F. Warren. Bailey Auditorium.

The National Research Council and its Committee on Wild-life and Natural Resources. A. H. Wright. Roberts Assembly

Recent advances in poultry breeding. F. B. Hutt. Poultry 300

What is ahead in the cheese industry? H. S. Sweetland, Secretary, Western New York Butter and Cheese Makers Association, Cuba, New York. Dairy 119

Predicting success in marriage. L. S. Cottrell, Jr. Agricultural Economics 225

Apiary locations. E. F. Phillips. Comstock 145

Newer varieties of vegetables. Paul Work. East Roberts 222

Controlling insect pests in the garden. Grace H. Griswold. Plant Science 233

Soybeans as a hay, grain, or silage crop. W. D. Swope. Plant Science 141

The installation and ventilation of the common storage for fruit, with suggestions for remodelling. A. M. Goodman. Plant Science 143

Good pasture fields in relation to soil and water conservation, soil building, and an abundant supply of high-class feed. (Illustrated.) D. B. Johnstone-Wallace. Caldwell 100

Demonstration: Killing hogs. (Until 1 p. m.) R. B. Hinman and C. D. Schutt. Animal Husbandry Meat Laboratory

12 m. Some factors adversely affecting the dairy farmer's income. Fred Sexauer, President, Dairymen's League Cooperative Association, New York City. Agricultural Economics Auditorium

Diseases of garden flowers. L. M. Massey. Plant Science 233

The program of the Tompkins County Development Association. Hugh Williams, Director, Ithaca, New York. Agricultural Economics 225

Should New York farmers grow malt barley? F. P. Bussell. Plant Science 141

Insecticides for the control of aphis, bud moth, and scale insects. F. Z. Hartzell. Plant Science 143

Soil erosion in the East and South, with suggestions on its control in New York. (Illustrated.) A. F. Gustafson. Caldwell 100

How to get more for your apples. G. P. Scoville. Agricultural Economics 125

The making of monterey cheese. W. E. Ayres. Dairy 119

Improving hatchability by feeding and managing breeders. E. Y. Smith. Poultry 300

1 p. m. Motion pictures. Bailey Auditorium

2 p. m. Address. The Honorable Herbert H. Lehman, Governor of the State of New York, Albany, New York. Bailey Auditorium

Radio reception of the address being given by the Honorable Herbert H. Lehman in Bailey Auditorium, as broadcast by the University Radio Station WESG. Roberts Assembly, WESG Studio, and Agricultural Engineering Laboratory

3 p. m. The wild-life-conservation curriculum at Cornell University. (Until 3.40 p. m.) A. A. Allen. Comstock 245

Cornell's rôle in conservation education. (At 3.40 p. m.) Carl E. Ladd, Dean of the Colleges of Agriculture and Home Economics. Comstock 245

The cheese industry in Europe. (Illustrated.) J. C. Marquardt. Dairy 119

What everyone should know about cancer. Louis C. Kress, M.D. (See page 29.) Auditorium, Martha Van Rensselaer Hall

Taking advantage of changing conditions in the poultry-feed situation. L. C. Norris. Poultry 300

Changes in milk prices and in milk production in New York. M. S. Parsons. Agricultural Economics 225

Factors affecting profits on market-garden farms, with and without greenhouses. E. G. Misner. Agricultural Economics Auditorium

Taxes and local government in Tompkins County. T. N. Hurd. Agricultural Economics 125

Why should farmers be interested in double-crossed corn? R. G. Wiggans. Plant Science 141

Question box and round-table: Garden problems. (Until 5 p. m.) Members of the staff of Floriculture and Ornamental Horticulture, Entomology, and Plant Pathology. Plant Science 37

Insects of nursery and ornamental plants. F. L. Gambrell. Comstock 145

Forum: The 1937 emergency in the forage-crop-production programs of New York farms. (Until 5 p. m.) J. H. Barron, chairman. Assisted by D. B. Johnstone-Wallace, R. G. Wiggans, and F. P. Bussell. Caldwell 100

Round-table discussion: Planning county development. Hugh Williams. Agricultural Economics 201

Meeting of the New York Swine Growers' Association. Byrd Townsend, Interlaken, New York, presiding. Animal Husbandry C

Demonstration: Illustrating the power and draft of farm horses by use of the dynamometer. E. H. Hanson. Judging Pavilion

Demonstration: Grafting apple trees to change the variety or to repair injury. N. F. Childers. Plant Science 143

Meeting of the New York Dairy Goat Association. Animal Husbandry E.

Young Farmers' conference. (See page 34.)

4 p. m. Organ recital. Luther M. Noss, University Organist. Bailey Auditorium

A year with the Eskimos. In a land of no agriculture. (Illustrated.) George M. Sutton. Roberts Assembly

The Audubon Societies and conservation education. John H. Baker, National Audubon Societies, New York City. Comstock 245

Around the world in forty-five minutes. Bristow Adams. Agricultural Economics Auditorium

Recent developments in potato breeding. J. R. Livermore. Plant Science 141

Question box and round-table on garden problems. (Continued.) Plant Science 37

Question box and discussion: Problems of poultry feeding. G. F. Heuser and L. C. Norris. Poultry 300

Round-table and fruit question box on cultural problems. Members of the staff of the Department of Pomology. Plant Science 143

Demonstration: Selecting hens, pullets, and male birds for egg production. G. O. Hall. Poultry 305

Conference of poultry-progeny-test cooperators. L. E. Weaver. Poultry Library

Display: Quality in meat. Animal Husbandry Meat Cutting Room

Young Farmers' conference. (See page 34.)

Inspection of swine barn, hog-lot equipment, swine-breeding herds, and the swine experiments in progress at the Waite Farm. Meet at Animal Husbandry C. Transportation will be provided for those without cars.

5 p. m. Bird-song recording: How it is done and how the songs are studied and used. (Illustrated with lantern slides and phonograph records.) A. R. Brand. Roberts Assembly

Conservation education and the biological survey. Ira N. Gabrielson, Chief of the United States Biological Survey, Washington, D. C. Comstock 245

Recreation hour. Evelyn Nance and William Smith in charge. Auditorium, Martha Van Rensselaer Hall

5.30 p. m. Banquet for members of the school judging teams and for delegates to the Young Farmers' conference. Ross Frair, toastmaster. (Reservations must be made before 10 a. m. from Roderick Virgo, State Secretary and Treasurer, at Fernow 122.) Willard Straight Hall

Evening

6 p. m. Community singing. John R. Jones, leader. Martha Van Rensselaer 124

8 p. m. Kermis. Three one-act plays produced by students of the New York State Colleges of Agriculture and Home Economics. (An admission fee will be charged, and the proceeds will be used for student activities.) University Theatre, Willard Straight Hall

SATURDAY, FEBRUARY 20

(All lectures and demonstrations begin 10 minutes after the hour. Unless otherwise indicated, all speakers and demonstrators are members of the staff of Cornell University.)

9 a. m. Problems of the home orchard and berry patch. M. B. Hoffman. Plant Science 143

The grass-seed situation and seeding recommendations for 1937. J. H. Barron. Caldwell 100

Some suggestions to prospective purchasers of farms. T. E. LaMont. Agricultural Economics Auditorium

Science-teachers conference. (See page 36.)

10 a. m. New York agriculture: past, present, and future. R. S. Beck. Agricultural Economics Auditorium

Making hay in spite of rain. J. K. Wilson. Caldwell 100

The growing of feed-grain crops on dairy farms. W. D. Swope. Plant Science 143

Science-teachers conference. (See page 36.)

11 a. m. The demand for farm products. F. A. Harper. Agricultural Economics Auditorium

Science-teachers conference. (See page 36.)

LECTURES AND DEMONSTRATIONS

HOME ECONOMICS

MONDAY, FEBRUARY 15

(All lectures and demonstrations begin 10 minutes after the hour and will be given in Martha VanRensselaer Hall unless otherwise noted. Additional subjects of interest to homemakers may be found under the agricultural section, pages 3 to 22. Unless otherwise indicated, all speakers and demonstrators are members of the staff of Cornell University.)

1 p. m. Motion pictures. Bailey Auditorium

2 p. m. Welcome to the Thirtieth Annual Farm and Home Week. Carl E. Ladd, Dean of the New York State Colleges of Agriculture and Home Economics, and Flora Rose, Director of the New York State College of Home Economics. Auditorium

2.30 p. m. Lecture-demonstration: The Sunday-night supper. (Until 4.30 p. m.) Lillian Shaben. Amphitheatre

3 p. m. The 4-H Club and your child. Repeated Wednesday at 3 p. m. Emma D. Nevin, Therese Wood, Anne R. Matthews, Ida O. Perez, and Mark Entorf. Room 217

Discussion: Some home-lighting problems. Repeated Thursday at 3 p. m. Ruth Comstock. Room 215

Recreation hour. Evelyn Nance and William Smith in charge. Auditorium

Evening

6 p. m. Community singing. John R. Jones, New York City, in charge. Room 124

6.15 p. m. Dinner for members and families of Epsilon Sigma Phi. Forest Home Inn

TUESDAY, FEBRUARY 16

(All lectures and demonstrations begin 10 minutes after the hour and will be given in Martha Van Rensselaer Hall unless otherwise noted. Additional subjects of interest to homemakers may be found under the agricultural section, pages 3 to 22. Unless otherwise indicated, all speakers and demonstrators are members of the staff of Cornell University.)

8.30 a. m. Conference for song leaders. (Until 10 a. m.) John R. Jones in charge. Recreation Room, Willard Straight Hall

9 a. m. Books in relation to daily living. (To be followed by discussion at 10 a. m., Room 117.) Mrs. Dorothy L. Riddle, chairman; Frank L. Tolman, Roland Mulhauser, and Lemo Dennis Rockwood. Auditorium

Lecture-demonstration: The pressing of woolen garments. Emil Kohm, Ithaca, New York. Amphitheatre

Conferences: Your own cookery problems. (Until 1 p. m.) Repeated Wednesday at 12 m. Marion C. Pfund. Office 374

Lecture-demonstration: Color in the kitchen. Charlotte W. Brenan. Room 215

10 a. m. Learning in later life. Paul Kruse. Auditorium

Family life in the Near East. Barclay Acheson, Director, Near East Foundation, New York City. Amphitheatre

Applications of our present knowledge of vitamin C. Faith Fenton. Room 339

Lecture-demonstration: Physical fitness. How posture affects the feeling of well-being. Repeated Thursday at 11 a. m. Dorothy H. Bateman. Room 215

11 a. m. World peace ways. Theresa Major Durlach, President, World Peaceways, Inc., New York City. Auditorium

The twins: How are they, and how did they get that way? Helen Monsch. Amphitheatre

Insects of the kitchen and attic. Grace H. Griswold. Room 215

12 m. Fashion show: Costumes from around the world. (Until 1.45 p.m.) Other fashion shows Wednesday, Thursday, and Friday at 12 m. Beulah Blackmore, Margaret Humphrey, and students. Auditorium

1 p. m. Motion pictures. Bailey Auditorium

2 p. m. Some phases of the history of New York's agriculture. U. P. Hedrick, Director of the New York State Agricultural Experiment Station, Geneva, New York. Bailey Auditorium

Book talk: Mental health and family relations. (Books discussed will be on display in the Library, Room 120.) Mark Entorf. Room 120

Conferences: Your problems of pre-natal, infant, and child feeding. (Until 3.30 p. m.) Repeated Wednesday at 2 p. m. Helen Monsch. Office 370

3 p. m. Pioneers of today. Ruby Green Smith. Auditorium

Lecture-demonstration: Dining in the Danish manner. (Until 4.30 p. m.) Martha Smith Fry, Dairymen's League Cooperative Association, Inc., New York City. Amphitheatre

Making friends with children. Frances Markey Dwyer. Room 124

Lecture-demonstration: Decorative effects in flower arrangement. (Until 5 p. m.) Lucile G. Smith. Plant Science 233

4 p. m. Getting along with life. E. R. Eastman, Editor, *American Agriculturist*, Ithaca, New York. Agricultural Economics Auditorium

5 p. m. Recreation hour. Evelyn Nance and William Smith in charge. Auditorium

5.30 p. m. Reception and dinner for members and friends of the New York State Federation of Farm Bureaus, Home Bureaus, and 4-H Clubs. Reception at 5.30 p. m.; dinner at 6 p. m. (Reservations may be made at the Information Desk, Martha Van Rensselaer Hall.) Willard Straight Hall

5.45 p. m. Exhibition broadcast. (Until 6.30 p. m.) Cornell University Student Radio Guild. University Theatre, Willard Straight Hall

Evening

6 p. m. Community singing. John R. Jones in charge. Room 124

8 p. m. Concert by the Cornell University Orchestra. George L. Coleman, conductor. Bailey Auditorium

WEDNESDAY, FEBRUARY 17

(All lectures and demonstrations begin 10 minutes after the hour and will be given in Martha Van Rensselaer Hall unless otherwise noted. Additional subjects of interest to homemakers may be found under the agricultural section, pages 3 to 22. Unless otherwise indicated, all speakers and demonstrators are members of the staff of Cornell University.)

8.30 a. m. Conference for song leaders. (Until 10 a. m.) John R. Jones in charge. Recreation Room, Willard Straight Hall

9 a. m. Demonstration: The development of a successful kitchen. Repeated Friday at 9 a. m. Ella M. Cushman, Delpha E. Wiesendanger, graduate students, and Mrs. Kenneth Post, Ithaca, New York. Auditorium

Lecture-demonstration: Mixing paint for walls and woodwork. Rhea Brown. Amphitheatre

Recent studies of the rôle of vitamin G in animal nutrition. L. C. Norris. Room 339

Book talk: The adolescent and his family. (Books discussed will be on display in the Library, Room 120.) Margaret Wylie. Room 120

Home lighting. Charles H. Roe, Electrical Testing Laboratory, New York City. Room 215

10 a. m. Collecting records of the past. Romeyn Berry, Author and Lecturer, Jacksonville, New York. Auditorium

The use of frozen fruits and vegetables in the home, with special reference to their food values. D. K. Tressler. Amphitheatre

Fashion beginnings: How they affect you. Mrs. Grace Mary Ramey, Fashion Director, *The Country Gentleman*, Philadelphia, Pennsylvania. Room 215

Health problems in later years. Dr. Helen Bull. Room 124

11 a. m. The importance of education for home living. Flora Rose. Auditorium

Standards for consumers' goods. Charles H. Roe. Amphitheatre

What we can do about backaches and other aches? Dr. O'Donnell, New York State Department of Health, Albany, New York. Room 215

12 m. Fashion show: New cottons for the summer wardrobe. (Until 1.45 p. m.) Other fashion shows Thursday and Friday at 12 m. Catherine Cleveland, Cotton Textile Institute, New York City. Auditorium

Conferences: Your own cookery problems. (Until 2.30 p. m.) Marion C. Pfund. Office 374

1 p. m. Motion pictures. Bailey Auditorium

2 p. m. The new state and federal social-welfare laws. David C. Adie, State Department of Social Welfare, Albany, New York. Bailey Auditorium

Book talk: Books for children. (Books discussed will be on display in the Library, Room 120.) Ruth Sawyer Durand, Author, Ithaca, New York, and Katherine Reeves. Room 120

Conferences: Your problems of pre-natal, infant, and child feeding. (Until 3.30 p. m.) Helen Monsch. Office 370

3 p. m. A philosophy for youth. Margaret Culkin Banning, Author, Duluth, Minnesota. Auditorium

Lecture-demonstration: Bread to boast about. (Until 4.30 p. m.) Clara Gebhard Snyder, Director of Home Economics, Wheat-Flour Institute, Chicago, Illinois. Amphitheatre

Discussion: Pictures in the home. Repeated Friday at 11 a. m. Virginia True. Room 215

The 4-H Club and your child. Emma D. Nevin, Therese Wood, Anne R. Matthews, Ida O. Perez, and Mark Entorf. Room 217

4 p. m. Reception and meeting of alumnae of the New York State College of Home Economics. Greetings and information on recent developments at the College, by Director Flora Rose. (Until 5 p. m.) (Tickets must be obtained in advance from the alumnae headquarters, Room 107, before 12 m.) Apartment A, Family Life Wing

Concert by the Ithaca College Concert Band. Walter Beeler, Director. Bailey Auditorium

5 p. m. Recreation hour. Evelyn Nance and William Smith in charge. Auditorium

Evening

6 p. m. Community singing. John R. Jones in charge. Room 124

6.15 p. m. Alumni banquet. Informal reception and supper for all former, regular, and special students and for members of the faculties of the Colleges of Agriculture and Home Economics. Tickets may be obtained at Roberts Hall and at Alumnae Headquarters, Room 107, in Martha Van Rensselaer Hall before 12 m. Willard Straight Hall

8 p. m. State festival in dramatics. (See page 13.) University Theatre, Willard Straight Hall

Hunting with a microphone. The songs of vanishing birds: A story of adventure with birds on a 15,000-mile trip. (Illustrated with colored lantern slides and sound motion pictures.) A. A. Allen. Auditorium

THURSDAY, FEBRUARY 18

(All lectures and demonstrations begin 10 minutes after the hour and will be given in Martha Van Rensselaer Hall unless otherwise noted. Additional subjects of interest to homemakers may be found under the agricultural section, pages 3 to 22. Unless otherwise indicated, all speakers and demonstrators are members of the staff of Cornell University.)

8.30 a. m. Conference for song leaders. (Until 10 a. m.) John R. Jones in charge. Recreation Room, Willard Straight Hall

9 a. m. Parents and their grown-up children. Ruth Andrus, Chief, Child Development and Parent Education Bureau, Albany, New York. Auditorium

Discussion: Remodeling your home. Carl Tallman, Architect, Ithaca, New York. Amphitheatre

Book service for rural readers. Roland Mulhauser, Librarian, Tompkins County Traveling Library, and Chairman, Committee on County and Regional Libraries of the New York Library Association, Ithaca, New York; Mrs. C. S. De Goyler, Chairman, Library Committee of the New York State Federation of Home Bureaus, Castile, New York; Mrs. Mott Whittleton, East Rochester, New York; and Mrs. Keith Sears, Trustee, Ulysses Philomathic Library, Trumansburg, New York; Mrs. Mary Frank Mason, State Supervisor, Rural Library Service, National Youth Administration, Albany, New York. Room 120

What is new in vitamins? Hazel Hauck. Room 339

Home dry-cleaning. B. V. Nelson, Vice-President, W. F. Fletcher Company, Ithaca, New York. Room 215

10 a. m. Panel discussion: How can we educate for family living? (Until 11.45 a. m.) Ethel B. Waring, chairman. Auditorium

Panel members: Mrs. Alice Huddleston, Truxton, New York; Mrs. Gladys Holton, Webster, New York; Ruth Andrus, Child Development and Parent Education Bureau, Albany, New York; Delpha Wiesendanger; L. S. Cottrell, Jr.; Paul J. Kruse; Dr. D. F. Smiley; Margaret Wylie; and Mark Entorf.

The art of hospitality. Toni Taylor, Hostess Editor and Director of the Modern Homemaker, *McCall's Magazine*, New York City. Amphitheatre

Lecture-demonstration: The keystone of a limited wardrobe; how to use accessories. Erma Burch, C. E. Chappell & Sons, Syracuse, New York. Room 215

11 a. m. Panel discussion: How can we educate for family living? (Continued.) Auditorium

Better textile buying guides for consumers. Ruth O'Brien, Chief, Division of Textiles and Clothing, Bureau of Home Economics, Washington, D. C. Amphitheatre

Lecture-demonstration: Physical fitness. How posture affects the feeling of well-being. Dorothy H. Bateman. Room 215

12 m. Fashion show: New cottons for the summer wardrobe. (Until 11.45 p. m.) Another fashion show Friday at 12 m. Catherine Cleveland, Cotton Textiles Institute, New York City. Auditorium

1 p. m. Motion pictures. Bailey Auditorium

2 p. m. Addresses. (Until 3.30 p. m.) Flora Rose, presiding. Bailey Auditorium

Mrs. Franklin D. Roosevelt. A day in the White House

Mrs. Henry Morgenthau, Jr. A day as a Cabinet member's wife

Thomas Parran, Jr., M.D., Surgeon General, United States Public Health Service. Communicable disease and its control. (At 3 p. m.)

Platform guests: Mrs. Ralph E. Brodie, New York State Congress of Parents and Teachers, Albion; Mrs. L. Leigh Colvin, Women's Christian Temperance Union of the State of New York, New York City; Mrs. Maxwell Erlich, New York State Conference of the National Council of Jewish Women, Staten Island; Mrs. Roy Bixby, Chairman, Service and Hospitality Committee, New York State Grange, Norfolk; Miss Kathryn E. Connell, New York State Home Economics Association, Syracuse; Mrs. Douglas M. Moffatt, New York League of Women Voters, New York City; Mrs. Clare J. Hoyt, New York State Federation of Women's Clubs, Walden; Mrs. Evalyn B. Gatchell, New York State Federation of Home Bureaus, North Rose; Mrs. Mary Switzer, New York State Federation of Home Demonstration Agents, Middletown

Keeping the child well. (Illustrated.) Dorothy Williams. Room 124

3 p. m. Lecture-demonstration: Flour, the queen of baking day. (Until 5 p. m.) Clara Gebhard Snyder. Amphitheatre

Discussion: Some home-lighting problems. Ruth Comstock. Room 215

Communicable disease and its control. Thomas Parran, Jr., Surgeon General of the United States Public Health Service, Washington. D. C. Bailey Auditorium

4 p. m. The State Troopers. Stephen McGrath, Captain, New York State Police, Oneida, New York. Agricultural Economics Auditorium

5 p. m. Recreation hour. Evelyn Nance and William Smith in charge. Auditorium

5.45 p. m. Exhibition broadcast. (Until 6.30 p. m.) Cornell University Student Radio Guild. University Theatre, Willard Straight Hall

Evening

6 p. m. Community singing. John R. Jones in charge. Room 124

6.30 p. m. The ninth annual Master Farmer banquet. (See page 18.) Willard Straight Hall

8 p. m. Eastman Stage contest. Twenty-eighth annual speaking contest for prizes of $100 and $25 given by A. R. Eastman. Bailey Auditorium

FRIDAY, FEBRUARY 19

(All lectures and demonstrations begin 10 minutes after the hour and will be given in Martha Van Rensselaer Hall unless otherwise noted. Additional subjects of interest to homemakers may be found under the agricultural section, pages 3 to 22. Unless otherwise indicated, all speakers and demonstrators are members of the staff of Cornell University.)

9 a. m. Demonstration: The development of a successful kitchen. Ella M. Cushman, Delpha E. Wiesendanger, graduate students, and Mrs. Kenneth Post. Auditorium

Book talk: Personal adjustment problems in later life. (Books discussed will be on display in the Library, Room 120.) Lemo Dennis Rockwood. Room 120

10 a. m. The 1939 New York World's Fair, and consumers' interest. Blanche W. Hendrickson, American Home Chairman, New York State Federation of Women's Clubs, Bronxville, New York. Auditorium

Lecture-demonstration: Looking your best after forty. Antoinette Donnelly, Feature Writer, *The Daily News*, New York City. Room 215

Your community: Digging up its past and planning its future. George Monroe, Tompkins County Development Association, Ithaca, New York. Room 339

The outdoor living room. Mrs. H. P. Weld, Ithaca, New York. Plant Science 233

11 a. m. Development in movements towards consumers' standards. Ephraim Freedman, R. H. Macey & Company, New York City. Amphitheatre

Discussion: Pictures in the home. Virginia True. Room 215

Care and maintenance of electrical household equipment. F. B. Wright. Room 121

12 m. Fashion show: Clothes designed and made by students in the Department of Textiles and Clothing. (Until 1.45 p. m.) Margaret Humphrey, Pauline W. Fuller, Joan Di Stefano, and Ida O. Perez. Auditorium

1 p. m. Motion pictures. Bailey Auditorium

2 p. m. Address. The Honorable Herbert H. Lehman, Governor of the State of New York, Albany, New York. Bailey Auditorium

3 p. m. What everyone should know about cancer. Louis C. Kress, M. D., Chairman, State Executive Committee of the American Society for the Control of Cancer, Buffalo, New York. Introduced by Harriet W. Mayer, State Commander, Women's Field Army to Fight Cancer, Mt. Vernon, New York. Auditorium

4 p. m. Organ recital. Luther M. Noss, University Organist. Bailey Auditorium

5 p. m. Recreation hour. Evelyn Nance and William Smith in charge. Auditorium

Evening

6 p. m. Community singing. John R. Jones in charge. Room 124

8 p. m. Kermis. Three one-act plays produced by students of the New York State Colleges of Agriculture and Home Economics. (An admission fee will be charged, and the proceeds will be used for student activities.) University Theatre, Willard Straight Hall

CONFERENCES

ALUMNI ASSOCIATION OF THE NEW YORK STATE COLLEGE OF AGRICULTURE

President—E. V. UNDERWOOD, Ithaca, New York
Vice-President—N. A. TALMAGE, Riverhead, New York
Vice-President—E. D. MERRILL, Webster, New York
Vice-President—J. P. MCMANUS, Milton, New York
Secretary-treasurer—A. W. GIBSON, Ithaca, New York

WEDNESDAY, FEBRUARY 17

5.30 p. m. Business meeting. North Room, Willard Straight Hall

6.15 p. m. Informal reception and supper for all former, regular, special, and winter-course students and for members of the faculties of the Colleges of Agriculture and Home Economics. Tickets must be obtained at Information Booth, Roberts Hall, before 12 o'clock. Willard Straight Hall

ALUMNAE ASSOCIATION OF THE NEW YORK STATE COLLEGE OF HOME ECONOMICS

President—MARION FISH, '23
Vice-President—RUTH RICE MCMILLIAN, '23
Secretary-Treasurer—JEANNETTE POWELL, '26
Chairman of Scholarship Committee—DOROTHY FESSENDEN SAYLES, '25
Nominating Committee—FRANCES MATHEWS GRAHAM, '21
NAN ROGERS WILLMAN, '24
HELEN BETTIS HIGLEY, '25

WEDNESDAY, FEBRUARY 17

Note: Alumnae headquarters for graduates and former students of the College of Home Economics will be in Room 115, Martha Van Rensselaer Hall. All alumnae are requested to register there. Tickets for the luncheon and the banquet may be obtained at headquarters.

4 p. m. Reception and meeting of alumnae of the New York State College of Home Economics. Greetings, and information on recent developments at the College, by Director Flora Rose. Tickets must be obtained in advance from the alumnae headquarters, Room 107, before 12 m. Wednesday, February 17. Apartment A, Family Life Wing.

6.15 p. m. Informal reception and supper for all former, regular, and special students and for members of the faculties of the Colleges of Home Economics and Agriculture. Tickets must be obtained at Information Booth, Home Economics, before 12 o'clock. Willard Straight Hall

NEW YORK STATE DAIRYMEN'S ASSOCIATION

(Sixtieth annual meeting)

AND

NEW YORK STATE BREEDERS' ASSOCIATION

(Fiftieth annual meeting)

Officers of the Cooperating Associations

New York State Dairymen's Association: IRA G. PAYNE, President; J. D. BREW, Vice-President; G. J. HUCKER, Secretary; C. E. GREENE, Treasurer. Directors: GEORGE W. SISSON, JR., R. S. BREED, F. B. MORRISON, KENNETH E. FEE, C. W. HALLIDAY, C. R. FITTS.

New York State Breeders' Association: M. M. FUERST, President; R. D. FOLEY, Vice-President; S. J. BROWNELL, Secretary-Treasurer. Directors: DAVID O. BERESFORD, E. P. FORRESTEL, J. B. HARRIS, E. L. MOXEY, S. N. STIMSON, R. W. DUCK, FRANK WAVLE, W. J. HARDY, F. B. MORRISON.

TUESDAY, FEBRUARY 16

Joint program

Forenoon session

Animal Husbandry A

8.30 a. m. Registration
Appointment of committees

9 a. m. The results of my Bang's-disease-elimination program. Earl D. Crocker, Sennett, New York

9.30 a. m. A program for eliminating Bang's disease. R. R. Birch

10 a. m. What I have done to control mastitis. Earl A. Beckwith, Ludlowville, New York

10.30 a. m. A plan for the control of mastitis. D. H. Udall

11 a. m. The present status of cattle-disease elimination in New York State. H. B. Leonard, United States Inspector, United States Department of Agriculture, Washington, D. C., in charge

12 m. Round-table discussion: Nutrition problems of interest to the animal husbandman. L. A. Maynard and C. M. McCay. Animal Nutrition Laboratory, Dairy 160

New York State Breeders' Association

Afternoon session

2 p. m. The production of beef cattle in the East. R. B. Hinman. Animal Husbandry A

3 p. m. A symposium: A livestock program from the standpoint of forages, pastures, and soil conservation. (Until 5 p. m.). W. T. Crandall, Chairman. Animal Husbandry A
Forages. J. H. Barron

Pastures. D. B. Johnstone-Wallace
Soil conservation. Roy A. Porter, Chairman of the New York State Agricultural Conservation Committee, Elba, New York

New York State Dairymen's Association

Afternoon session

3 p. m. Effect of mastitis on the composition of milk. A. C. Dahlberg. Dairy 218

3.30 p. m. Are the mastitis organisms found in normal udders? G. J. Hucker. Dairy 218

4 p. m. Milk houses: their construction and equipment. B. A. Jennings and H. J. Brueckner. Dairy 218

Display: Quality in beef. Animal Husbandry Meat Cutting Rooms

Students' horsemanship and decorating contest. Competition open to students enrolled in Cornell University. M. W. Harper and R. M. Watt, in charge. Judging Pavilion

5 p. m. Annual meeting of the New York State Breeders' Association. M. M. Fuerst, Pine Plains, New York, presiding. Animal Husbandry C

Evening

6 p. m. Banquet for members of the New York State Breeders' Association, the New York State Dairymen's Association, the Honorary Guild of Gopatis, and the New York State Farm Bureau Federation Dairy Commodity Committee. Willard Straight Hall

WEDNESDAY, FEBRUARY 17

New York State Breeders' Association

9 a. m. A complete breeding program for New York State dairymen. L. W. Lamb. Animal Husbandry A

Round-table: Problems of the New York State flock owner and lamb feeder. (Until 11 a. m.) Animal Husbandry C

10 a. m. Making our herd-improvement records more accurate and valuable. O. E. Reed, Chief of the Bureau of Dairy Industry, United States Department of Agriculture, Washington, D. C. Animal Husbandry A

11 a. m. The importance of type in herd improvement. E. S. Harrison. Animal Husbandry A

Demonstration: Killing lambs. (Until 1 p. m.) R. B. Hinman and C. D. Schutt. Animal Husbandry Meat Laboratory

12 m. Annual luncheon for sheep breeders and sheep feeders. (Until 2 p. m.) Terrace Room, Willard Straight Hall
The golden hoof on New York State farms. By prominent sheepman
The awarding of the Buffalo Stock Yards Trophy to the county winning the Empire State Sheep and Lamb Production Contest.

Round-table discussion: Nutrition problems of interest to the animal husbandman. L. A. Maynard and C. M. McCay. Animal Nutrition Laboratory, Dairy 160.

How to buy the most feed for $1.00. E. S. Savage. Animal Husbandry A

2 p. m. Reports on the research work in progress with sheep and lambs. J. P. Willman. Animal Husbandry A

3 p. m. Inspection of the sheep barns, breeding flocks, and the experimental work in progress with sheep and lambs at the Waite Farm. Meet at the Animal Husbandry Building, first floor. Transportation will be provided those without cars.

Legislative action affecting the livestock industry. Clayton G. White, Stow, New York. Animal Husbandry A

4 p. m. Exhibit and discussion of internal parasites in sheep and lambs. D. W. Baker. To be followed at 4.30 p. m. by demonstration of drenching sheep and docking and castrating lambs. H. A. Willman and G. L. Hunt. Sheep Barns, Waite Farm. Transportation from the Animal Husbandry Building to the Sheep Barns and return will be provided for those without cars.

Dairy-cattle demonstration and judging contest. Competition open only to Farm and Home Week visitors. E. S. Harrison, in charge. Judging Pavilion

Display: Quality in lamb. Animal Husbandry Meat Cutting Rooms

NEW YORK SEED IMPROVEMENT COOPERATIVE ASSOCIATION, INC.

President—Bruce P. Jones, Hall, New York
Vice-President—F. C. Gibbs, Pike, New York
Secretary-Treasurer—Elizabeth B. Lyman, Ithaca, New York

TUESDAY, FEBRUARY 16

Agricultural Economics 325

11 a. m. Business meeting. (Will be adjourned until 12 m.)

3 p. m. A report on grain-seed inspection and on potato breeding. F. P. Bussell and J. R. Livermore

4 p. m. Some results of potato spraying in up-state New York in 1936. E. O. Mader

WEDNESDAY, FEBRUARY 17

Agricultural Economics 325

9 a. m. A report on the seed-potato inspection during 1936. K. H. Fernow

10 a. m. The seed situation for this season. M. T. Munn

3 p. m. A summary of the progress made on yellow dwarf and "Z" disease of potatoes. F. M. Blodgett

4 p. m. Something ought to be done to improve the quality of seed grains planted on New York farms. W. F. Crosier

THURSDAY, FEBRUARY 18

Agricultural Economics 201

9 a. m. New potato varieties and their adaptation and value in New York E. V. Hardenburg

10 a. m. Recent developments in potato breeding. J. R. Livermore

11 a. m. Potato storage and marketing in Aroostook County, Maine. Daniel Dean, Nichols, New York

3 p. m. The handling and storage of seed potatoes for best results. Ora Smith

4 p. m. The control of potato scab, and seed treatment. C. F. Taylor and E. K. Cowan

NEW YORK COOPERATIVE SEED POTATO ASSOCIATION, INC.

President—ALONZO G. ALLEN, Waterville, New York
Vice-President—WALTER F. GARDNER, Tully, New York
Secretary-Treasurer—HAROLD J. EVANS, Georgetown, New York

For lectures of interest to potato growers during the week, refer to the general program and to the program of the New York Seed Improvement Cooperative Association, Inc.

TUESDAY, FEBRUARY 16

1 p. m. Business meeting. Agricultural Economics 325

YOUNG FARMERS' CONFERENCE

E. R. Hoskins, in charge

WEDNESDAY, FEBRUARY 17

12.45 p. m. Broadcasting. Future Farmers of Waterville

Willard Straight Hall

5.30 p. m. Meeting of the Advisory Council of the Association of Young Farmers of New York. S. O. Salmon, Endicott, New York, Chairman

Bailey Hall

7.30 p. m. Young Farmers' amateur night. William Barnum, President of the Cornell Collegiate Chapter of F.F.A., chairman, assisted by Richard Rozelle and Harold Noakes

THURSDAY, FEBRUARY 18

9 a. m. Judging contests. (As scheduled.)

12.45 p. m. Broadcasting. Future Farmers of Gouverneur

Fernow 122

1.30 p. m. Registration of delegates. State officers in charge. Young Farmers' Headquarters

2 to 4 p. m. Leading group activities. William Smith, presiding

4 p. m. Campus tours. (Starting from Fernow Hall.)

8 p. m. Eastman Stage contest. Bailey Auditorium

FRIDAY, FEBRUARY 19

9 a. m. Judging contests. (As scheduled.)

Fernow 122

9.30 to 11 a. m. Planning the association meeting. Ross Frair, President, assisted by other state officers and members of the Advisory Council

12.45 p. m. Broadcasting. Future Farmers of Holland Patent

1 p. m. Motion pictures. Bailey Auditorium

2 p. m. Address. The Honorable Herbert H. Lehman, Governor of the State of New York. Bailey Auditorium

Plant Science 233

3 to 5 p. m. Tenth mid-winter meeting of the Association of Young Farmers of New York. (Branch of the Future Farmers of America.) Ross Frair, President, presiding

5.30 p. m. Banquet for members of school judging teams and for delegates to the Young Farmers' Conference. Ross Frair, toastmaster. (Reservations must be made before 10 a. m. from Roderick Virgo, State Secretary and Treasurer, at Fernow 122.) Willard Straight Hall

FARM ELECTRIFICATION COUNCIL

THURSDAY, FEBRUARY 18

Agricultural Economics 325

9 a. m. How to get electricity to your farm. L. D. Kelsey

10 a. m. What we do with electricity on our farm. Mrs. Harry Little, Camillus, New York

3 p. m. Low-cost wiring for the farm. Morris H. Lloyd, Rural Service Engineer, Niagara, Lockport and Ontario Power Corp., Buffalo. New York

4 p. m. Survey of farm cold storages. E. L. Arnold

FINGER LAKES CONFERENCE ON SCIENCE TEACHING

SATURDAY, FEBRUARY 20

Fernow 122

Problems of Science Teaching in Elementary Schools*

Eva L. Gordon, presiding

9 a. m. Problems of the rural teacher. Emma Davis, District 17, Caroline, New York

9.30 a. m. Problems of training elementary-school teachers. Ross Bowers, Cortland Normal School, Cortland, New Tork

10 a. m. Problems of supervising elementary-school teachers. Mrs. M. C. McWhorter, District Superintendent, Chemung 2, Elmira, New York

11 a. m. Problems of state supervision of elementary-school teachers. W. W. Knox, State Supervisor of Science, Albany, New York

12.30 to 1.30 p. m. Luncheon and business meeting. Martha Van Rensselaer Hall

Problems of Science Teaching in Elementary Schools*

P. G. Johnson, presiding

2 p. m. Probable developments in secondary-school science in New York. W. W. Knox

3 p. m. What help is needed for the teaching of biological science? Dwight Sollberger

3.45 p. m. What help is needed for the teaching of physical science? Benjamin Stasch, Corning Free Academy, Corning, New York

CORNELL CONFERENCE ON CONSERVATION EDUCATION

FRIDAY, FEBRUARY 19

Roberts Assembly

E. L. Palmer, presiding

9 a. m. Conservation education and the soil-erosion service. Ernest G. Holt, United States Soil Conservation Service, Washington, D. C.

10 a. m. Conservation education in the State Conservation Department. Lithgow Osborne, New York State Conservation Commissioner, Albany, New York

11 a. m. The National Research Council and its Committee on Wild-Life and Natural Resources. A. H. Wright

*Visiting secondary-school teachers of science wishing guidance about the campus buildings and exhibits should meet at Fernow 8 at 9, 10, or 11 in the morning. Visiting elementary-school teachers desiring similar guidance should meet at Fernow 8 at 2 or 3 in the afternoon.

Comstock 245

A. A. Allen, presiding

3 p. m. The wild-life-conservation curriculum at Cornell University. A. A. Allen

3.40 p. m. Cornell's rôle in conservation education. Carl E. Ladd, Dean of the Colleges of Agriculture and Home Economics

4 p. m. The Audubon Societies and conservation education. John H. Baker, National Audubon Societies, New York City

5 p. m. Conservation education and the biological survey. Ira N. Gabrielson, Chief of the United States Biological Survey, Washington, D. C.

SIX NATIONS INDIAN AGRICULTURAL SOCIETY

President—Chief WILLIAM H. ROCKWELL, Oneida Reservation, Oneida, New York
Vice-Presidents—ULYSSES JOHN, Allegany Reservation, Steamburg, New York
JOHN K. BUTTON, Cattaraugus Reservation, Versailles, New York
HETZEL GARLOW, Tuscarora Reservation, Lewiston, New York
RUSSELL HILL, Tonowanda Reservation, Akron, New York
Head Chief ANDREW GIBSON, Onondaga Reservation, Nedrow, New York
Secretary—ALEX WHITE, St. Regis-Mohawk Reservation, Hogansburg, New York
Chairman, Homemakers' Board—Mrs. RENE WHITE, St. Regis-Mohawk Reservation, Hogansburg, New York
Secretary, Homemakers' Board—Mrs. MARY WINDER, Oneida Reservation, Oneida, New York
Chairman, 4-H Club Board—FRANKLIN P. DOCTOR, Tonowanda Reservation, Akron, New York
Members, 4-H Club Board—LEO COOPER, Allegany Reservation, Steamburg, New York
W. DAVID OWL, Cattaraugus Reservation, Versailles, New York
HARRY PATTERSON, Tuscarora Reservation, Lewiston, New York
Chief CHAPMAN SCHENANDOAH, Onondaga Reservation, Nedrow, New York
DONALD JOHN, Oneida Reservation, Oneida, New York
LINCOLN WHITE, St. Regis-Mohawk Reservation, Hogansburg, New York

THURSDAY, FEBRUARY 18

4 p. m. Annual meeting of the Joint Cornell Boards of Farmers, Homemakers, and 4-H project leaders. Bailey Hall

LABORATORY LESSONS ON PLANT DISEASES

The purpose of these laboratory lessons is to give farmers an opportunity to see with a microscope the parasitic organisms that cause apple scab, potato blight, and grain smuts. The farmers who attend these lessons will learn the ways in which these organisms spend the winter, how their spores are produced and scattered in the spring and summer. how they enter the plant and produce the disease, and, in the light of this information, how they can be controlled. The main purpose of these lessons is to help the farmer to control these diseases by understanding better how the parasites causing them live and grow.

Admission to these lessons is by tickets because the accommodations in the laboratories are limited. Any grower may obtain a ticket free of charge, as long as they are available, from the Plant Pathology Information Desk at the top of the main stairs on the third floor of the Plant Science Building.

The following schedule of lessons will be held on the third floor of the Plant Science Building:

Lesson on apple scab. Professor Whetzel, in charge, from 3 to 5 p. m. Tuesday. Plant Science 341.

Lesson on oat, barley, and wheat smuts. Professor Barrus, in charge, from 3 to 5 p. m. Wednesday. Plant Science 343

SPRAY-SERVICE-TROUBLE HOUR

Diseases and insect pests of apples and other fruits cause troubles and losses each year. Much of the loss can be prevented by using the proper chemicals and applying them in the most effective manner. Growers who wish to discuss these troubles with experts of the Departments of Plant Pathology and Entomology will have the opportunity to do so from 1 to 2 p. m. on Monday, Tuesday, and Thursday in Plant Science 141

STUDENT EMPLOYMENT

The winter courses close with Farm and Home Week, and a few students in the regular course in the college graduate at that time. Students from both of these groups desire farm work or jobs in related agricultural industries. Some of them have always lived and worked on farms when not in school. Others have had less farm and business experience and will want jobs where good experience, which will be their most important consideration, may be gained.

It is planned to have farmers and others meet students by appointment during the week to arrange for employment. Those who desire to hire student help should call at the Farm Practice Office, Roberts Hall, as soon as possible after arriving in Ithaca. Employers are requested to write in advance to Professors A. W. Gibson or A. C. King.

EXHIBITS

Agricultural Economics—Land classification, road, and electric maps: These maps show an economic classification of the land and the location of suggested hard-surface-road and electric-line extensions to the farms that are likely to remain permanently in agriculture. Such maps are on display for Broome, Chemung, Chenango, Clinton, Cortland, Genesee, Monroe, Montgomery, Rensselaer, Schuyler, Steuben, Tioga, Tompkins, and Wyoming Counties. Exhibits also include land-classification maps showing the location of land classes I and II (land better suited to forests and recreational uses than to agriculture) for each county in the State except those along the Hudson River. Room 140, Agricultural Economics Building.

Our changing agriculture: This exhibit shows trends in crops and livestock, by counties, in New York State. The acreages in each crop and the number of each kind of livestock since 1880 are shown for each county. For fruit counties, this exhibit includes the trend in the number of apple, peach, pear, and cherry trees, and grapevines. Room 140, Agricultural Economics Building.

Farm accounts for farmers: Different kinds of accounts used by New York farmers are on display. This exhibit also includes charts which show trends in the number and purchasing power of cows, horses, sheep, and hogs for a long period of years, as well as the effects of price level, size of business, production per cow, yields per acre, and labor efficiency on incomes of farmers. Room 101, Agricultural Economics Building

Agricultural Engineering—All exhibits, unless otherwise indicated, are in the Agricultural Engineering Laboratory.

Modern house wiring: Examples of properly installed electric wiring for lighting fixtures, switches, and outlets for connecting the modern electrical household appliances are on display.

Power tools for the home work shop: The modern electrically driven equipment is displayed.

Farm water-supply systems: Numerous makes of both deep- and shallow-well automatic water-supply systems are set up for operation.

Plumbing system: Two plumbing systems are exhibited: (1) A complete plumbing system for a kitchen and a bathroom. This exhibit includes an automatic water system; an automatic electric water heater, and modern plumbing fixtures, including a shower bath. (2) A simple gravity water system using a water front in the kitchen range for heating the water. In connection with this exhibit, pipe fittings, valves, faucets, and tools are on display.

Radios: Representative types of the modern types of radios are on display. The two o'clock lectures, which are broadcast from Bailey Hall on Thursday and Friday, will be received.

Farm shop: The work shop has in it such equipment as most farmers may find it profitable to own. The tools, the benches, and the other equipment are arranged much as they would be placed in a practical shop on a farm.

Farm tractors: The tractor exhibit consists of 1937 model tractors, steel and rubber tired, crawler type, and the latest Diesel tractor design.

Farm tractor field machinery: The machinery exhibit consists of small combine harvesters, and planting, cultivating, and harvesting equipment for general-purpose tractors.

Ventilation: A display of natural-draft and electric ventilation systems.

Original McCormick reaper: An accurate copy of the original reaper is on display.

Concrete: Display of types of concrete products, materials used in making concrete, types of waterproofing, and the grading of sand are on display.

Milk cooling equipment: Several commercial coolers and equipment for concrete tank insulation are on display.

Power farming machinery: Tractor plows, large-heavy-duty disc harrows, field cultivators, and spring-tooth harrows, twenty-two hoe-tractor grain drills, tractor cultivators, tractor mowers and grain binders, electric hay hoist, electric-driven ensilage cutter, straw chopper, and feed grinder, are on display in the Farm Practice Tool Shed which is near the horse barn.

Agronomy—In Room 143 on the first floor in Caldwell Hall and in adjoining first floor corridors the following exhibits are on display:

Profiles of various important soil types in New York, which show the losses and soil changes brought about by erosion.

Growing crops which show the fertilizer response of several important New York soils.

Charts and crop samples which show the qualitative and quantitative response of several different important New York soils to fertilizer treatment.

Pasture plants which everybody should know and strive to encourage, and also little-known plants or new types of old plants which seem especially promising.

Pictures showing losses by soil erosion, and methods of preventing such losses.

Farm layouts showing farms as they were originally, and as they are now reorganized to prevent soil losses by erosion, to enhance soil building by good crop and rotation management, and to permit the most economic use of the land consistent with the type of farming, the needs of the farmer, and the limitations of the soil type or types and other surroundings.

A moving slide machine is in operation. Pictures along various lines are being shown in accord with a schedule posted near the machine. The pictures deal with soil erosion and its prevention, pasture improvement, legume inoculation, and the like.

Animal Husbandry—An exhibit of livestock fitted and shown by students will be paraded at 1.30 p. m. Thursday in the Judging Pavilion, before the Students' Livestock Show which starts at 2 p. m.

Dairy cattle: Visitors are welcome at the dairy barns at all times. Those wishing to go through the barns with a guide may do so at 4 p. m. on any day except Thursday, the day of the Students' Livestock Show. Visitors wishing to go at this time should register with Mrs. Gutenberger, Room 26, on the second floor of the Animal Husbandry Building, before 12 m. each day.

Beef cattle: Visitors are welcome at an inspection of the beef cattle barn and of the breeding and experimental animals on Thursday at 11 a. m.

Horses: Visitors are welcome at the horse barns at all times during Farm and Home Week.

Sheep and swine: Visitors are welcome at all times at the sheep and swine barns. A trip of inspection of the sheep barn is scheduled for Wednesday at 3 p. m. A trip of inspection of the swine barn is scheduled for Friday at 4 p. m. On each of these occasions transportation will be furnished for those without cars.

Animal nutrition: Visitors are welcome at the Laboratory of Animal Nutrition in the Dairy Building. An exhibit illustrating experimental work in progress is open daily. This includes some of the newer developments and the studies concerning life span that are now in progress. This exhibit is to the right of the main corridor on the first floor of the Dairy Building.

Animal breeding: An exhibit illustrating points of heredity in farm animals is to the right of the main corridor on the first floor of the Dairy Building.

Meat and meat products: Meat and meat cuts to show quality, and various methods of preparing the different cuts, are exhibited daily from 4 to 5 p. m. in the Animal Husbandry Meat Cutting Rooms, in the basement of the Animal Husbandry Building.

Botany—Exhibit of weeds and poisonous plants: The common and most troublesome weeds of New York State are on exhibition. These are arranged under the following groups: lawn weeds, pasture weeds, weeds of meadows, weeds of grainfields, weeds of cultivated fields and gardens, and weeds of waste places. Poisonous plants are also shown. Anyone with questions concerning the recognition or control of particular weeds is invited to present his problems for discussion. Room 353, Plant Science Building.

Correspondence Courses—The office of farm-study courses—to enable farmers, poultrymen, dairymen, fruit growers, vegetable gardeners, beekeepers, and others, to learn the latest facts about their industries—may be found in the basement of Roberts Hall. Here the supervisor of the courses may be interviewed every morning by those who are taking, or have taken, or expect to take any of the various courses offered.

Entomology—Mammals and snakes: A display of live snakes and mammals, together with a demonstration of rodent control on the farm, is on the ground floor of Comstock Hall.

Fish culture: The fish hatchery, on Cascadilla Creek just above the Dryden Road crossing, is open to visitors throughout the week.

Aquatic insects: An exhibit of live insects found in ponds and streams is on display on the ground floor of Comstock Hall.

Honey and beekeeping: An extensive illuminated display of the honeys of New York State, together with the equipment used by beekeepers, is on the ground floor of Comstock Hall. Various phases of beekeeping management are also demonstrated.

Insects and diseases: Parasites and insects that transmit diseases of man, his domestic animals, and game animals are on display. Room 200, Comstock Hall.

Insect collections: The large permanent display of insects from all over the world, including tropical butterflies, large and unusual insects, and many common forms, may be inspected. Methods and equipment for collecting, mounting, and identifying insects are exhibited. Room 100 and the third and fourth floors of Comstock Hall.

Insect anatomy: Apparatus and methods used in studying the internal anatomy and embryology of insects are on display. Rooms 265 and 270, Comstock Hall. Demonstrations of the digestive system, muscles, breathing apparatus, sound-producing organs, and types of mouth-parts are exhibited under microscopes. Room 200, Comstock Hall.

Insect pests and their control: This exhibit will include insects which attack vegetables, fruits, potatoes, stored products, household goods, cereal and forage crops, and ornamentals, together with suggested control measures. Live insects, their activities, and the equipment used in experimental work are exhibited. A complete collection of insecticides, together with sprayers and dusters, are available. Ground floor, Comstock Hall.

Insect pests of ornamentals: Insect pests of garden flowers, house plants, and ornamental trees and shrubs, including enlarged colored photographs, mounted specimens, and some live insects under magnifying glasses, are exhibited. Spray and dust materials used in controlling these pests and sprayers and dusters suitable for use on flowers and shrubs are shown. Ground floor, Comstock Hall.

Alfalfa snout beetle: On the ground floor of Comstock Hall is an exhibit of the alfalfa snout beetle, showing the different stages of this insect, together with the damage that it causes to alfalfa and other plants, and what attempts are being made to control it. This insect is destructive to alfalfa and at the present time is found only in Oswego and Jefferson Counties. This pest has been introduced from Europe, where it is a most destructive insect on alfalfa.

Ornithology exhibits, second and third floors, Fernow Hall.

Paintings by Louis Agassiz Fuertes: A large series of original water colors and oils arranged in the Fuertes Memorial Room 207.

Some recent bird portraits by George M. Sutton: Field studies mostly made on recent Cornell bird expeditions. Room 308.

Bird paintings by E. J. Sawyer: Room 208.

The Ivory-billed woodpecker: A completed habitat group showing the rare American bird at home in a Louisiana swamp, along with other birds of the same environment. Third Floor Hallway.

The Fuertes Memorial collection of birds: An opportunity to view at close range many rare and beautiful birds of this collection. Open daily from 10 a. m. to 12 m. Room 306.

New York State birds in their native habitats: Many of our native birds are here represented by mounted specimens against a natural background in the cases which line the second-floor hallway.

The songs of common birds and their pictures may be heard and seen in the main hallway continuously from 10 a. m. until 4 p. m. From time to time the songs will be broadcast over the quadrangle to give them a more realistic setting.

How bird songs are recorded: To those interested Mr. Brand will explain the methods of recording bird songs, the equipment used, and will discuss the various phases of bird song. Open daily from 10 a. m. to 12 m. Room 212.

The eagles of New York State: The bald and the golden eagle, together with representative hawks of other species, are exhibited alive in Room 212, and an attendant will be present to answer questions regarding their economic status and methods of training them.

Colors and coloration in birds: An exhibit showing how colors are produced in birds' plumage and the results of different types of lighting. Room 210.

Recent accessions to the Cornell bird collection from Little America and elsewhere: An exhibit of mounted birds and skins recently acquired through gift or Cornell expeditions to various parts of the world. Room 210.

Bird-attraction devices: At the west end of the parking area. An instructive collection of bird houses, feeding stations, bird baths, and wild fruits attractive to birds.

Floriculture—The exhibits are in Plant Science 15.

Desirable house plants and their propagation. Tuesday, Wednesday, Thursday, and Friday, 9 a. m. to 5 p. m. Lucile G. Smith and H. T. Skinner.

The preparation of soil and use of fertilizers in the flower garden. Tuesday, 9 a. m. to 5 p. m. R. C. Allen and S. E. Wadsworth.

The latest information on gardening; some results of experiments. Wednesday, 9 a. m. to 5 p. m. R. C. Allen and S. E. Wadsworth.

The propagation of perennials by seed and division. Wednesday, 9 a. m. to 5 p. m. H. T. Skinner and students.

What the Cornell Test Gardens are doing for the citizens of the State of New York. Thursday, 9 a. m. to 5 p. m. R. C. Allen.

New and interesting plants for the rock garden and other situations. Friday, 9 a. m. to 5 p. m. R. C. Allen and M. A. Nagler.

Consultation period. Friday, 9 a. m. to 12 m. Problems of landscape planning and planting on the farm and home grounds. Friday, 3 p. m. to 5 p. m. J. P. Porter, D. J. Bushey, Lucile G. Smith, and R. S. Reich.

Exhibit of landscape plans. Friday, 9 a. m. to 5 p. m.

Forestry—Collections of forest-tree leaves, seeds, and products, and other materials in the broad field of forestry are exhibited in Fernow 118.

An exhibit of the durable species of wood and of the method of preservative treatment of non-durable woods for fence posts and farm timbers is on display in the Forestry Exhibit Room in the basement of Fernow Hall.

Also shown are methods and materials for poisoning thornapple trees; young pines and logs that have been pruned; maple-product containers; studies of the effects of grazing on woodlots; map of the woodlot-improvement plots in the

State; and a chart of the 4-H Club and Vocational Agriculture reforestation work since 1926.

4-H Club Work—Charts, pictures, literature, project records, organization material, certificates, and awards depicting the scope and the nature of the 4-H Clubs in New York State are exhibited in the 4-H Club Office, second floor, Roberts Hall. Members of the staff are on hand daily from 9 a. m. to 5 p. m. to answer questions.

Home Economics—The College of Home Economics has prepared extensive exhibits relating to the nursery school; homemade play materials for the family; color in the kitchen; work centers in the home, including kitchens, laundries, sewing, and other centers; learning from labels; books; the 4-H club and your child; household textiles; costumes from around the world; new cottons; the clothes hospital; lamps, lighting fixtures, and wiring materials for the home; a county in the making; pictures by American artists; maple-sugar products; the school lunch, how it helps to meet the child's nutritional needs; meal planning; cakes on parade; the use of electrical range in cookery; house planning and remodeling; the truth about cancer. Details of these exhibits, giving time and rooms, are found in the separate homemakers' programs.

Plant Breeding—An exhibit featuring double-crossed corn and corn varieties superior for silage and grain purposes is on display in Room 49, Plant Science Building. In this room also may be seen varieties and strains of soybeans most suitable for forage and grain purposes. Charts and other explanatory material will accompany the exhibits. The set-up is planned to be of especial interest to those who attend the lectures given on corn and soybeans by members of the staff of the Department of Plant Breeding during the week. The combination of corn with soybeans and the results obtained by the different rates of planting should be of especial interest to dairymen.

In Room 146 is shown both new and standard sorts of wheat, oats, barley, corn, soybeans, cabbage, and potatoes. An interesting feature is a display of some of the many commercial products obtained from soybeans. Samples of certified seed of the various crops will be on exhibit and lists of dependable sources of seed will be available.

Pomology—The fruit display this year features the promising new varieties of apples and red-bud sports. There is a revival of interest in orchard planting, and this collection of new apples will be particularly interesting and helpful to those intending to plant.

An exhibit of sun-colored fruits will be made, giving an opportunity to compare lots of fruit held under different conditions for coloring. The after-harvest coloring of apples by exposure to sunlight has been practiced by a few growers in this State and has occasioned much comment. The intensity of the light, the length of the exposure, and the keeping quality of the fruit are some of the comparisons involved.

Poultry—All poultry exhibits will be staged in Room 100, first floor, Poultry Building.

Egg grades: The interior quality of eggs as it relates to the New York State grades is demonstrated by charts, broken-out eggs, and candling. F. A. Jones, Supervising Inspector, New York State Department of Agriculture and Markets.

Disease: Several diseases affecting poultry in New York State are displayed by means of pictures and by mounted and preserved specimens.

Egg-laying tests: Pictures of the test plants, forms used, construction plans, and reports are shown.

Albumen condition in eggs: The kind of albumen in new-laid eggs and its relation to inheritance, hatchability, and chick mortality is illustrated by pictures and charts.

Embryology: The following are displayed: living chicken embryos in open eggs at various stages of incubation; charts showing various chemical changes within the normally developing egg and within the egg exposed to unfavorable incubation conditions; collections of eggs showing the variation in size, shape, color, and shell texture.

Extension: Some of the methods by which the Poultry Department serves the poultrymen of the State are displayed.

Nutrition: The importance of vitamin G (lacto flavin) in poultry nutrition; the rôle of manganese in the prevention of perosis (slipped tendon) in chicks; the relation of nutrition to interior egg quality; all are displayed.

Breeding: Exhibits illustrate the use of progeny-testing to evaluate breeding stock, inherited characters in the fowl and the transmission of genetic defects and differences between breeds in their resistance to inadequate diets.

Rural Social Organization and Family Life—Homemade play materials for the family: Exhibit of play materials and games made from things available in rural homes; inexpensive recreation equipment for family gatherings. Cornell University 4-H Club and Family Life students in charge of the exhibit. Tuesday through Friday, 9 a. m. to 5 p. m. Games are demonstrated daily at 10 a. m., 11 a. m., 3 p. m., and 4 p. m. Martha Van Rensselaer Hall, Room G-62.

United States Weather Bureau—Charts and maps illustrating the collection of weather information, the preparation of weather maps, and the distribution of forecasts in New York State are exhibited in Roberts 442.

Vegetable Crops—All exhibits will be held in East Roberts 223.

Cauliflower: Browning and its relation to boron is explained. Pictures and greenhouse plants show the results of borax applications.

Celery: Varieties differ in size and strength of strings. Two entirely different kinds of strings are shown.

4-H: Market packages for potatoes. Results of field demonstrations are given.

Potatoes: Varieties—new, standard, old, and foreign varieties are shown along with some United States Department of Agriculture seedlings and some bud sports. Market studies—potato samples taken from retail stores illustrate variations in grade and paring waste. The lowest priced potatoes are not necessarily cheapest for the housewife. Rotations and continuous cropping—plans are shown of the extensive five-year studies started in 1936. Cooking quality—blackening, sogginess and sloughing are shown as related to their causes. Seed—effect of storage and curing of cut seed on stand and yield. Soil reaction—its relation to quality and yield of potatoes.

Sweet corn: Effect of size of seed on planting rate is shown.

Tomatoes: Causes and extent of puffiness are explained. Apparatus shows how respiration in tomato fruits is measured. See how wax coating of tomatoes increases their storage period.

Members of the staff will be present from 8 a. m. to 5 p. m. to explain the exhibits and discuss problems with growers.

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