144

# ANNUAL COMMENCEMENT

...OF THE...

# CLASS OF 1906



...AND...

DEDICATION OF THE CENTRAL BUILDING

IOWA STATE COLLEGE OF AGRICULTURE AND MECHANIC ARTS

COLLEGE CAMPUS, AMES, IOWA JUNE 7, 10:00 A. M.

1 9 0 6

# **DEDICATION PROGRAM**

Assemble at Margaret Hall

March to Central Building

Music - - Glee Club

Invocation - Dr. F. W. Gunsaulus

Music - - Glee Club

Delivery of Keys to Hon. J. B. Hungerford, Chairman of the Board of Trustees, by Hon. J. W. Dixon, Chairman of the Building Committee.

Charge to the President by Hon. J. B. Hungerford.

Response - - President A. B. Storms

Address - - Hon, A. B. Cummins

# COMMENCEMENT PROGRAM

Music - - - Orchestra

Invocation - - Dr. O. H. Cessna

#### Music

Commencement Address—"The Heroism of Scholarship"—Dr. F. W. Gunsaulus, President Armour Institute of Technology, Chicago.

#### Music

Promotion of Juniors - - Hon. J. F. Riggs

Response on behalf of Juniors - A. Q. Adamson

Music

Conferring of Degrees - - Pres. A. B. Storms

Music - - - - Orchestra

Vocal Music in Charge of Professor F. J. Resler

8:00 P. M. Reception at the Home of the President, for the Alumni, Faculty and Friends

# CANDIDATES FOR DEGREES WITH SUBJECTS OF THESES

# DIVISION OF AGRICULTURE

Degree--Bachelor of Scientific Agriculture

#### AGRONOMY COURSE

BUCHMAN, HARRY O.—Certain Methods of Soil Analysis in Relation to the Fertility Problem. FISH, DON ELLSWORH-Methods of Investigation of the Soils of a State.

GILLIS, ROBERT HENRY-The Relation of Certain Carriers of Phosphorus to Crop Production.

JENKINS, JOHN J.-Historical Study of Soil Management.

Kelsey, Lewis E.—Drainage Conditions in Western and Northwestern Iowa.

SCHIELE, ARTHUR—The Most Economical Farm Motor.

STUART, ROBERT LEROY-A Study of One Type of Loess Soils.

#### DAIRY COURSE

BRINTNALL, EARLE P .- A Comparison of Rennet versus Pepsin in Cheddar Cheese Making. GUTHRIE, J. CALEB-Jerseys, Guernseys and Holstein-Fresians for Dairy Purposes in Iowa. MEISER, FRANK-Effects of Various Ripening Temperatures on the Flavor of Cream and

#### HORTICULTURAL COURSE

EASTMAN, WILLIAM RAYMOND-Some Orchard Diseases of the Apple in Iowa and their

Howard, Harry H.-The History and Adaptability of the Russian Apple to the North-

JEFFS, ROYAL EDGAR-The Propogation of the Cherry in Iowa.

KOHLER, ALFRED R.—The Propogation of the Apple in Iowa and the Northwest.

NORMAN, ALVAH J .- The Pollination of Orchard Fruits, Especially the Grape and Apple.

#### ANIMAL HUSBANDRY COURSE

BACCHUS, J. EDWARD-The Hen; Meat Production.

CAVE, ROY ALBERT-Milking Short Horns.

CHALUPNIK, JOHN C.—Relation of Live-stock Farming to the Fertility of the Land.

CROUSE, R. W. Aged, Two-year-old and Senior Yearling Classes of the St. Louis Exposition of 1904.

FARNUM, ROSWELL A.—The Breeding of Aberdeen Angus International Winners of 1904-05. GRIBBEN, RAY LARIMER  $\}$  —The Dual Purpose Cow. LARSON, CARL W.

Heisey, Charles Jesse-The American Carriage Horse.

HUTCHINS, IRVING WHITNEY-Horse Census of Irvington Township.

INGELS, JAMES FRED—The Hen; Egg Production.

LAWRENCE, CLARKE WILSON-A Comparative Study of Some Important Milk Producing Breeds of Cattle in the Middle West.

LUNDEEN, HENRY LEONARD-The Production and Marketing of Baby Beef.

PECHSTEIN, PAUL THEODORE-Grass and Cattle Conditions on the Range.

RIEKE, FRED C.—Horse Industry of Leroy Township.

ROBERTS, G. A.-Influence of Parents on Birthweight in Lambs, also a Study of the Growth and Development of Lambs.

SMITH, WILLIAM HOWARD-Mule Production in the Cotton States.

TROEGER, LESLIE EUGENE-A study of the Farm Horse as he is Grown and Bred in Hayes Township, Buena Vista County, Iowa.

#### COURSE IN SCIENCE OF AGRICULTURE

KIBBEY, RICHARDS CARROLL-Mendel's Law of Heredity in Guinea-pigs.

# DIVISION OF VETERINARY SCIENCE

Degree--Doctor of Veterinary Medicine

COLE, CLARENCE GORDON COLLISON, FREDERICK PAUL

JORGENSON, JAMES PETER JOLLS, RAY

# DIVISION OF ENGINEERING

#### MECHANICAL ENGINEERING COURSE

Degree--Bachelor of Mechanical Engineering

BAKER, RALPH LEE MABIE, IRA PETER TINSLEY, GEORGE WARREN WYMAN, ARTHUR HATCH Boiler Trials

CHILDES, GEORGE S.—Tendencies in Locomotive Practice.

CLEMENTS, CARL WILLIAM \ —Efficiency of the College Power Transmission System. MACGREGOR, ANDREW H.

GOULDEN, ROBERT S. } -Design and Construction of Electric Lathe Drive. HARRIS, ÉRNEST NYE

Hanson, Harry B. } —Determination of the Coefficent of Resistance for Standard One Knox, Walter H. } and One-fourth Inch Cast Iron Elbows.

KING, MATTHEW L.—The Test of New Quick Return Mechanism LUNGREN, OSCAR EDWIN

LUNGREN, USCAR EDWIN WILKINSON, LAURANCE JOHN -Test of the Producer Gas Power Plant at Altoona, Iowa.

MILLER, HARRY MAYNARD —Report of Test of Power Plant at C. B. & Q. R. R. Shops WILSON, LAWRENCE WAYNE THE WAYNE AT West Burlington.

REULING, WALTER E.—The Comparison of Different Types of Installation for Lighting the Town of Wymore, Nebraska, by Electricity.

SANFORD, ARTHUR L.—Extension of Heating Tunnel at Iowa State College.

WAY, LEO C.—The Effect of Different Ratios of Air Space to Grate Area on Evaporation.

### ELECTRICAL ENGINEERING COURSE

Degree--Bachelor of Science in Electrical Engineering

ANDERSON, JOHN L. }-Test of the Nevada Electric Light Plant.

ATKINSON, RALPH W. }—The Effect of Insulation Upon the Carrying Capacity of Wire. PATCH, JAMES W.

CAUGHEY, R. I.—A Study of Tin Alloys of Soldiers. COATES, LESLIE E.—Design of an Alternating Current Railway Motor.

COGGSWELL, DON H. WEISE, ALFRED MILES \ -Fuse Wire Test.

ELWOOD, W. D.—Plans and Specifications for Telephone Plant.

ICKIS, LYNN S. ROWAT, FRANK  $\}$  —Comparative Photometry.

JOHNSON, F. ARTHUR ATTEMPT OF THE PROPERTY OF

KENNY, GUY R.
MARSDEN, WM. ARCHIBALD \ —The Design of a Synchroscope.

NYE, HENRY VINTON \ —Design of a 100 H. P. Induction Motor,
WILLIAMS, THOS. R.

OGDEN, KARL R.
THROCKMORTON, C. G.

W. G—An Efficiency Test of the Ames City Lighting Plant.

# CIVIL ENGINEERING COURSE

Degree--Bachelor of Civil Engineering

BABBIT, HENRY K. -An Investigation of the Methods of Computing Stresses in Reinforced Concrete Arches. CAMPBELL, GUY R. HEBERLING, CLYDE ANDREW

PLITT, JOHN HENRY BOYD, GEORGE R.-Plans and Specifications for a Sewage Disposal Plant for the City of Red Oak, Iowa.

BRIDGES, EARLE F. GUIBERT, OSCAR EUGENE }-Tests of Building Stone.

Brown, Frank F. E. Stewart, George H.  $\}$  —Experimental Investigation of Iowa Gravel for Cements.

DYER, MARY YEISLEY

EVINGER, MORRIS I. }—An Investigation of Some Iowa Water Works Filtration Plants.

FORD, CLARENCE H. -City of Estherville. Specifications for Sewers and Sewage LATHROP, HERBERT A. Disposal Plants.

FOSTER, WALTER L. GOULD, HARLEY JOSEPH  $\}$  —The Development of Iowa Water Powers.

Furrow, Ray A. Palmer, Ray R.  $\}$ —Tests of Hollow Concrete Blocks.

GRAY, HARRY WOY \ -Investigation of the Cost of Construction of Sewers in Iowa.

Hanssen, Henry Mathias - The Effects of Manure, Ensilage, Lime and Sulphur Dip, Sloan, Fred M. Kreso Dip and Cinders upon Cement.

HIDINGER, LEROY L. ) MAXWELL, WAYNE D. \- Data of Asphalt Pavements in Iowa.

McPherson, R. W.—Tests of Iowa Roads Material.

MOORE, HARRY I .- An Investigation of the Manufacture and Testing of Portland Cement

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ANDERSON, ABEL O.—Investigation of Iowa Portland Cement Material.

AUSTIN, HARRY C. The Selection of a Mechanical Hauling System for the Rex BOWEN, MARSHALL R. Tuel Company's Mine. COLE, WALTER B .- The Cyanide Test of a High Grade Telluride Ore From Cripple

Mosier, McHenry-An Investigation of the Manufacture and Testing of Portland Cement from Iowa Materials.

PISHEL, M. A.—The Geology of Part of Southwestern Wyoming.

SAYRE, E. A.—The Chlorination Process for Telluride Ore.

TRACY, PAUL B .- An Investigation of Methods Employed in Mining and Treatment of Ore of Southwestern Wisconsin.

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# GENERAL SCIENCE COURSE

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DOTY, HARLEM LYNN FLYNN, MELISSA G. GUTHRIE, GEORGE BOARDMAN Jackson, Mae Lydia Madson, Mathilda Christina Melhus, Irving E.

WILSON, MARY MITCHELL

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Degree--Bachelor of Domestic Science

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Degree--Bachelor of Science

FEDSON, JENNIE CHRISTENA FRASEUR, EDITH ALBERTA GEORGE, MARY EDITH

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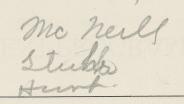
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WILSON, MARY MITCHELL

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WALKER, RUTH

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JOHNSON, OLLA VICTORIA SHAW, WINIFRED ANNA WILLIAMS, LORETTA FLORENCE

GREER, FLOY ETHEL

COURSE IN MUSIC

SCOTT, ADA MAE

# Post Graduate Courses

# DIVISION OF AGRICULTURE AGRONOMY COURSE

BURNETT, LYMAN CRANE, B. Sc., University of Nebraska.—The Vitality of Corn. M. S. A.

Davis, Charles Wesley, B. S. A., University of Tennessee.—The Selection and Preparation of Seed Corn as Applied to Georgia Conditions. M. S. A.

McClure, Harry B., B. S. A., Iowa State College.—The Loess Soils of Iowa. M. S.A.

#### ANIMAL HUSBANDRY COURSE

CAMPBELL, PERCY A., B. S., New Hampshire State College.—Corn Meal Supplemented with Armour's Meat Meal for Fattening Hogs. M. S. A.

McDonald, William T., B. S. A., Ontario Agricultural College.— Corn and Cob Meal and Hay for Finishing Steers. M. S. A.

SMITH, W. W., B. S. A., Iowa State College.—Comparison of Ratios for Fattening Hogs in Dry Lot. M. S. A.

# DIVISION OF ENGINEERING CIVIL ENGINEERING COURSE

HEDGES, S. H., B. C. E., Iowa State College—Civil Engineer.

#### DIVISION OF SCIENCE GENERAL SCIENCE COURSE

Buchanan, Robert Earle, B. S., Iowa State College.—The Algae of Iowa. M. S. A.

McKay, Willis George, B. S., Iowa State College.—Sanitary Bacteriological Analysis of Water. M. S. A.

WATTLES, GURDON W., Master of Philosophy.

# Honor Students

MELISSA FLYNN	Science
W. D. MAXWELL	Civil Engineering
H. V. NyE	Electrical Engineering
H. O. BUCKMAN	Agronomy
OLLA JOHNSON	. General and Domestic Science
A. R. KOHLER	
W. E. RULING	Mechanical Engineering
IRVING HUTCHINS	Animal Husbandry
E. P. BRINTNALL	Dairy
H. C. Austin	Mining Engineering
F. P. Collison	Veterinary

CK VIGa

The Trustees and Faculty
of the

Jowa State Gollege of
Agriculture and Mechanic Arts
invite you to be present at the
Thirty-fifth Annual Gammencement
Inne first to seventh

1906

### Program

Thursday, May 31 8:00 p. m. Peace Pipe

Friday, Inne 1 7:30 p. m Society Graduation

Saturday, June 2 8:00 p. m. Term Recital

Sunday, June 3 10:30 a.m. Baccalaureate Sermon 8:00 p.m. Address before P. M. and P. M. C. A.

Monday, Inne 4 3:00 p. m. Senior-Faculty Ball Game 8:00 p. m. Innior Class Play

Tuesday, June 5
10:00 a. m. Gardinal Guild
2:30 p. m. Glass Day Program
8:00 p. m. Grand Concert

8:00 p. m.

Mednesday, Inne 6

"Sun Ap" Senior Breakfast

10:00 a. m. Alumni Business Meeting

2:30 p. m. Association Inbilee

"Twilight" Promenade Concert

Thursday, June 7
10:00 a. m. Dedication of Central Building
11:00 a. m. Commencement Exercises. Address by
Dr. Frank M. Gunsaulus

Alumni Reception at Central Building

1:00 p. m. Alumni-Faculty Dinner