

.. Annual ..  
Commencement

Iowa State College  
of Agriculture and  
Mechanic Arts

College Chapel, Ames, Iowa, Nov. 16,  
at 7:30 p. M.

✧ ✧ 1898 ✧ ✧



\*\*\* Program \*\*\*

Invocation.

Music.

Address to the Trustees and Graduating Class  
by Dr. F. W. Gunsaulus, President Ar-  
mour Institute, Chicago, Ill.

Music.

Promotion of Juniors.—Hon. R. C. Barrett,  
Superintendent of Public Instruction.

Response in behalf of Juniors—G. M. Rom-  
mel.

Music.

Closing words to Senior class—Hon L. M.  
Shaw, Governor of Iowa.

Conferring of Degrees—Pres. W. M. Beard-  
shear.



Theses of the Graduate and Post-Graduate Courses  
for 1898.

DIVISION OF AGRICULTURE.

Ralph W. Barclay—A Study in Short Horn Pedigrees.

J. C. Brown—Sugar Beet Industry.

J. Craig—Native Plums.

H. J. Evans—Yield of Butter from Pasteurized and Unpasteurized Cream.

H. N. Grettenberg—A Study of Milk Preservatives.

J. H. Grisdale—Variation and its Place in the Evolution of the Modern  
Shorthorn.

B. H. Hibbard—Discontent of the Rural Classes.

E. E. Little—Geographical Distribution of the Cultivated Trees and  
Shrubs of Iowa with Phenological Observations.



- J. B. Love, } —Geographical Distribution of the Cultivated Fruits of  
 A. P. Whitmore, } Iowa with Phenological Observations.  
 E. G. Preston—The Cattle Barn.  
 J. H. Scurr—Subsoiling.  
 W. N. Warden—Beef Breeds of Cattle.  
 Roger C. Mills—The Incubation of Chickens.

#### DIVISION OF SCIENCE AS RELATED TO THE INDUSTRIES.

- M. C. Adamson—Condition of the Laboring Classes During the Feudal Period.  
 Amanda Barger—Growth and Fate of American Slavery.  
 Leora May Bonwell } —The Political History of John Milton.  
 Jessie Parker }  
 O. S. Boyd—Joan of Arc.  
 Harry F. Brown—The Alcohols of the Paraffine Series and a Laboratory Study of Fusel Oil.  
 Glenn C. Clark—Philosophy of Spiritualism.  
 W. C. Edson—Roman and American Imperialism.  
 F. F. Faville—Some Phases of Modern American Literature.  
 O. J. Fay—A Bacteriological Study of the Ames Sewage Plant.  
 Elmer Franklin—Gold and Silver Coinage in the United States.  
 O. S. Franklin—Spain's Colonial Policy.  
 Theron S. Grant—Our National Legislature.  
 C. A. Hartman—The New Tariff.  
 O. J. Henderson—The Judge, Jury and Bank of Judges.  
 E. R. Hodson—Phenological Observations on Corn for 1898.  
 Ewing Johnson—Destructive Diseases of Plants in Central Iowa.  
 Irene Jones—Attention as a Factor of Knowledge and Education.  
 C. J. McKusker—The Decorah Section.  
 W. G. McKay—The Licinian Rogations.  
 Pearl McWilliams—The Roman Triumvirates.  
 W. H. Meek—The Education of the Middle Ages.  
 Royal Meeker—The Industrial History of the Lombardy Communes.  
 E. D. Perry—American Banking and the National Bank.  
 Dollie Mary Snelson—English Colonies and English Colonial Policy.  
 E. M. Stanton—A Study of Caffetannic Acid.  
 Franklin C. Stetzel—Assyriology.  
 C. T. Stevens—The Development of the Constitution.  
 W. C. Tilden—A Synopsis of English History During the Era of the Revival of Learning, with Notes on the Life of Erasmus.  
 Annie Walker—The Social and Industrial Life of Israel in the Time of Solomon.  
 Lorena Webber—The Mercantile System.  
 Ira Williams—Physiographic Study of Franklin Township, Story Co., Iowa.

#### DIVISION OF ENGINEERING.

##### Mechanical Engineers.

- C. J. Bristol, }  
 M. J. Pos, } —An Analysis of the Expenses of the I. S. C. Power Station  
 H. Bozarth, }  
 James Galloway, } —The Effect of Clearance upon the Steam Consump-  
 Thomas Galloway, } tion of a High-speed Automatic Engine.  
 H. W. Skinner, } —An Investigation of the Duty, Steam Consumption and  
 G. F. Dodge, } Efficiency of Small, Direct-Acting Steam Pumps.

##### Civil Engineers.

- M. J. Hammer, } —A Photographic Study of Fire Streams.  
 S. W. Tarr, }  
 R. H. Hollembeak—A Test of Iowa Building Stone.



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F. N. Lewis—A Physiographic Study of Franklin Township, Story Co., Iowa.

A. J. Perrin, }  
John H. Wykoff, } —A Study of the Transverse Tests of Paving Brick.

#### Electrical Engineers.

J. N. Bonnell, } —Curves of Magnetization, Magnetic Distribution and  
D. W. Morgan, } Pressure.

W. S. Duncan, }  
M. R. Hull, } —The Efficiency Test of an Electric Power Plant.  
F. R. Lowery, }

J. C. Kyle, } — Specifications and Estimates for the Complete Electric-  
W. H. Grover, } al Equipment of the Ames and College Railway.  
W. J. Devine, }

H. E. Dyer—Design of Apparatus for the Automatic Regulation of Engine Load in an Electric Light Plant of Variable Output.

#### DIVISION OF PHILOSOPHY AND DOMESTIC SCIENCE.

Mary Esther Beatty—Indian Corn as a Human Food.

Olive Z. Brown—An Examination of Commercial Paints in Reference to their Compositions and Adulterations.

Ena Burnham—The American Revolution and Parliamentary Reform.

Margaret Cooper—The Improvement of Student Diet in the United States.

Ada Ellis—The Relation of Sabbath to Industrial Life.

Sadie Ellis—The Relation of Slow Cooking to Economic Diets.

Sadie Hook—Imagination as an Element in Literary Interpretation.

Kate LaRue—Admiral Coligny.

Elizabeth Read—Mrs. Elizabeth Barrett Browning.

Alice Elizabeth Reed—The Ordinance of 1787.

Stella May Russell—Four Tragical Women of Shakespeare.

Mabelle Stewart—Merchant of Venice.

Margaret Taylor—Literary Criticism.

#### DIVISION OF VETERINARY SCIENCE.

Charles J. Heckard—Physiological Action of Barium Chloride.

A. Kolling—A Few New Points Concerning the Cause and Treatment of the So-called Parturition Fever.

G. E. Nesom—Evidences of Evolution with Special Reference to the Horse.

O. W. Rowe—Parasites of Iowa Swine with Special Reference to their Prevalence and Relative Importance.

H. E. Titus—The Physiological and Therapeutical Action of Arecoline.

### Graduate Courses.

#### DIVISION OF AGRICULTURE.

I. J. Mead—A Study of Preservatives.

H. C. Taylor—Tenancy and Farm Ownership.

J. W. Wilson—Cattle Feeding.

#### DIVISION OF SCIENCE AS RELATED TO THE INDUSTRIES.

E. D. Ball—Review of the Cercopithec of North America north of Mexico.

Robert Combs—Plants Collected in the District of Cienfuegos, Province of Santa Clara, Cuba, in 1895-96.

#### DIVISION OF PHILOSOPHY.

C. H. McLean—The Genesis of Law.