

.. Annual ..
Commencement

Iowa State College
of Agriculture and
the Mechanic Arts

College Chapel, Ames, Iowa, Nov. 22,
at 7.30 p. M.

✦ ✦ 1899 ✦ ✦

♦ ♦ Program ♦ ♦

Invocation.

Music.

Annual Address to the Trustees and Graduating Class by Dr. William R. Harper,
President of the University of Chicago.

Music.

Promotion of Juniors—Hon. L. M. Shaw,
Governor of Iowa.

Response in Behalf of Juniors—Ira J. Scott.

Music.

Conferring of Degrees—President W. M.
Beardshear.

Graduates, Class of 1899.

DIVISION OF AGRICULTURE.

- Clarence J. Griffith—The Dairy Short Horn.
D. E. Hollingsworth—The Production and Utility of the Bacon Hog.
A. G. Hopkins—Breeding of Draft Horses.
H. H. Hume—Fungi Collected by the Botanical Department in Colorado,
Wyoming, Nebraska in 1895, 1896, 1897.
W. J. Kennedy—Ayrshire Cattle.
Charles Rhinehart }
Walter I. Griffith } Utility of Cornstalks.
George M. Rommel—Historical Study of the Aberdeen-Angus Cattle.
C. A. Steele—Pollination Studies of the Apple.
F. V. Stout—The American Horse at Home and Abroad.

DIVISION OF ENGINEERING.

Mechanical Engineering.

- R. C. Anderson—Economy of the Deep-well Pump under Varying Condi-
tions.
Fred R. Lowery } —A Study of the Effect of Clearance on the Economy
Monroe R. Hull } of the Corliss Engine.

Electrical Engineering.

- W. H. Leathers }
J. L. Gillespie } —Design of Electric Light Plant at Mapleton, Iowa.
N. Malcolm }
G. C. Carrington } —Design of an Electric Generator for Metallurgical
Work.
E. B. Tuttle }
J. E. Van Lieu } —Design, Construction and Test of a Hedge-Hog Trans-
former.

DIVISION OF VETERINARY SCIENCE.

- C. P. Liegerot—Surgical Neurectomy and its Treatment.
A. G. Hopkins—Operative Veterinary Dental Surgery.
E. W. Humphrey—Millet Disease in the Equine and Bovine.
Burton Rogers—Pyrexia and Antipyretics.
S. P. Smith—The Biology and Pathological Effects of the Staphylococcus
Pyogenes Aureus.
Wayne L. Stillman—Soaps in Surgery.

DIVISION OF SCIENCE AND PHILOSOPHY.

Science.

- J. R. Allen—The Olfactory Lobes of Mus Musculus.
H. B. Bolks—The Barbaric and Saracen Movement in European Civiliza-
tion.
H. L. Eckles }
H. O. Fritzel } —Acid Fermentation of the Mouth.

- Ora Edgett—The Eight Hours Labor Day.
 G. L. Ehlers—The Career of Cicero.
 Racine Goble—Roman Imperialism.
 E. E. Granger—The First Triumvirate.
 Alice Ward Hess—A Study of the Edible Fungi of Ames.
 J. P. Lund—Our National Banking System.
 Erna Maguire—Psychology and Language.
 C. M. Perrin—The Constituency of Our Senate.
 F. J. Rettenmaier } —The Oxidation of Linseed Oil and Composition of
 Howard W. Adams } the Products.
 Fordyce W. Rhoades—Oliver Cromwell's Dilemma.
 Guy Roberts—Continental Congress.
 Francis Charles Rottler—Water Analysis with a Special Study of a Method
 for Determining Hardness of Waters.
 D. J. Scholten—Era of Augustus.
 F. A. Schuetz—The Election of United States Senators by Popular Vote
 vs. the Present Method.
 C. F. Spring—Notes on the Geographical Distribution of Iowa Cereals.
 James M. Stimson—Incidence of Taxation.
 E. R. Thomas—The English Constitution of 1832.
 Jeannette M. Younie—Wheat Bread and Bread Making with Yeast.
- Philosophy.**
- Clare A. Campbell—The Art of Mnemonics.
 Elsie A. Davis—Profit Sharing between Employer and Employee.
 Stella Ellis } —A Study of the Food Value of Fish Procurable in Ames.
 Annie Seaver }
 Fannie Gilbert—The Second Triumvirate.
 Katherine Goble—The Roman Senate.
 Edith Ivey Metcalf—The Ethical Value of Music.
 E. Ray Mills—Expression in Physiognomy.
 Ruth Morrison—Salads and Salad Making.
 Adele H. Stuhr—Julius Caesar, Dramatic Characterization.
 Alice M. Tooley—English Poor Laws.
 Mame Tooley—Labor Organizations.
 Maude Wakefield—Conflict between England and France for Possession
 of the New World.

Graduate Courses.

ADVANCED DEGREES.

- Carleton R. Ball, B. S.—Distribution of the Genus *Salix* in Iowa.
 F. W. Bouska, B. S. A.—A Contribution to the Study of Water in Butter.
 Wilmon Newell, B. S.—The North American Species of the Sub-genera
Diaspidiotus and *Hemiberlesia* of the Genus *Aspidiotus*.