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162



Commencement
OF THE
Iowa State Agricultural College.

Tuesday, November 13.

1894.



Commencement Program.

COLLEGE CHAPEL, 7:30 P. M.



PRAYER.

Music, "The Nightingale," - - - *Liszt*
Miss Westermann.

Address before the Trustees and Senior Class by -
President Cyrus Northrop, LL. D., President of
the University of Minnesota.

Address to the Junior Class, Hon. W. O. McElroy, C. E.
President of the Board of Trustees.

Response for the Junior Class, - J. W. Oliver

Music, "Doris" - - - *Nevin*
Miss Chambers.

Conferring of Degrees.

Benediction.

CLASS HONOR LIST.

Including those who have the highest standing in their respective
Course of Study.

C. D. REED.

A. H. SEAVER.

ELSWORTH WILSON.

H. I. RUTLEDGE.

BURTON KNICKERBOCKER.

EMMA PAMMEL.

LEE CAMPBELL.

C. G. LEE

H. S. BOWEN

Iowa Campbell

GRADUATES 1894

THE COURSE IN AGRICULTURE.

- S. D. Bowie, - - - Modern Methods of Food Preservation
 Geo. W. Carver, - - - Plants, as Modified by Man
 C. D. Reed, The Influence of Chemical Fertilizers on the Composition of Plants.
 C. E. Reed, Government and State Ownership of Timber Lands

THE COURSE IN VETERINARY SCIENCE.

- O. N. Bossingham, - - - The Study of Equine Suppuration
 H. G. Moore, Relation of Tuberculosis in Cattle to the Public Health
 A. A. Peters - - - - - Ostosis
 Harry Shanks, The Life Cycle and Preventive Treatment of the *Gastrophilus Equi*.
 H. J. Stevens, - - - - - Inflammation,
 Arthur R. Wake, Tuberculin as a Diagnostic Agent in Bovine Tuberculosis.

- Elsworth Wilson, - - - - - } Comparative Urine Analysis
 J. E. Wilson, - - - - - }

THE COURSE IN MECHANICAL ENGINEERING.

- Harry S. Bowen, { Effect of Varying Clearance upon Steam Engine
 W. G. Langfitt, { Economy.
 W. J. Burdess, - - - Some Properties of Lubricants
 Louis B. Craig, { Efficiency Test of the College Lighting Plant
 H. I. Rutledge, {
 Emil Hensen, { Experiments on Structural Steel by Punching
 J. T. Young, {
 Albert Price, - - - Loss of Head in Check Valves

THE COURSE IN CIVIL ENGINEERING.

- J. C. Miller, - Study of Water Consumption and Flow of Sewage
 A. H. Seaver, Experimental Determination of Rolling Friction on Steel Bridge Rollers.
 Alda Wilson, The Effect of the Rate of Applying Stress on the Strength of Briquettes in Cement Testing.

THE COURSE IN ELECTRICAL ENGINEERING.

- W. L. Campbell, - - - { The Magnetic Properties of Iron
 E. C. Dickinson, - - - {
 F. H. Campbell, - - - { Efficiency of Storage Batteries
 Charles Lincoln, - - - {
 B. Knickerbocker, - - - { The two Dynamo Method for Efficiency
 S. W. Linn, - - - {
 E. M. S. McLaughlin, { Errors of Direct Reading Ammeters and
 C. O. Williamson, { Voltmeters.
 Alex McKinnon - - - Efficiency of Grenet Battery Cells
 W. A. Murphy, - - - Theory of the Storage Battery
 A. W. Stuntz, - - - Efficiency of Incandescent Lamps.

THE COURSE IN SCIENCES RELATED TO THE INDUSTRIES.

- W. J. Ballard, The Effect of the Greeco—Persian War on Greek Literature.

- W. G. Carlson, A Study of the White Efflorescence on Bricks and a
Method of Prevention.
- W. R. Cooper, - - International Bimetallism
- S. R. Fitz, { Comparative Study of the Methods of Extracting
G. T. Schlenker } Cinchona Alkaloids.
- Annie W. Fleming, - - State Taxation
- W. H. Gemmill, - - Taxation of Personal Property
- A. W. Hoyt, A Study of the Ammonium Molybdate Method for the
Determination of Phosphorus.
- H. R. Kreger, The Original and Borrowed Elements in the Constitu-
tion of the United States.
- C. G. Lee, Industrial Co-operation—No Solution of the Difficulties
between Labor and Capital.
- W. L. Meinzer, - - The Unemployed Poor
- J. Meissner, - - The Geology of Franklin Township
- W. L. Ryan, - - The Income Tax
- Emma Sirrine, On the Structure of the Seed Coats of Polygonaceae
- Clarence Van Epps, Comparative Valuation of the Three Principal
Pharmaceutical Preparations, by the Determination of Their
Total Alkaloids.

THE COURSE FOR WOMEN.

- Cassie P. Bigelow, A Study of the Glands in the Fruit of the Hop Tree.
- Blanche M. Brudley, Historic Evolution of the University Course.
- Iowa L. Campbell, The Condition of the Laboring Classes in our Cities and
Some Methods for their Improvement.
- Ida M. Clark, - - The Missouri Compromise.
- Ella B. Curtiss, - - Ancient and Modern Labor Organizations.
- Fannie E. Curtiss, Comparison of Shakespeare's Sonnets and Bacon's Essays
- Anna Georgen, The Influence of the Norman Invasion on the English
Language.
- Winifred Hunter, Physiological and Psychological Conditions of Express-
ion.
- Bertha M. Mosier, - - Psychology in its Relation to Pedagogy
- Emma E. Pammel, - - A Study of some Gas-Producing Bacteria.
- Nora M. Person, - - The Relation of Tennyson's Arthurian Poems to
Malory's Mort D'Arthur.
- Edith B. Ryan, - - Comparison of Goethe's Faust with Byron's
Manfred.
- Mahala Silliman, - - How to Obtain and Preserve a Pure Water
Supply.

CANDIDATES FOR THE DEGREE OF M. S.

- A. M. Beach, B. Sc. - - - - New Species of Thripidae
- D. B. Bisbee, B. Sc. - - A Study of the Nitrogen Compounds of the Soil.
- W. H. Heileman, B. Sc. - - - - A Chemical Study of Honey.
- C. W. Mally, B. Sc. - - A General Discussion of the Family Psyllidae
With Descriptions of New Species at Ames, Iowa.
- F. C. Stewart, B. Sc., Effects of Heat on the Germination of Corn and
Corn Smut.

FOR THE DEGREE OF C. E.

- Elmina Wilson, B. C. E. - - Design of the Metal Work of the Venetian
Building, Chicago, Ill.

FOR THE DEGREE OF M. PH.

- Meyer Brandvig, B. Sc. - - - - The Genesis of Knowledge.