

Michigan State Agricultural College

Forty-eighth Annual

**Commencement**

June twenty-first, Nineteen hundred five

College Armory

Ten o'clock A. M.

# Program

## Music

## Invocation

Overture to Tannhauser - - - *Wagner*

( 2 pianos, 8 hands, arranged by Roques )

Miss Freyhofer                      Mr. Neal Perry

Miss Mack                              Miss Northrop

Address, The Forward Movement in Plant

Breeding - - - Victor R. Gardner

( *Agricultural Course* )

Address, The Development of Electric

Traction - - - Horace S. Hunt

( *Mechanical Course* )

# Program

Address, History of Woman's Education  
in the United States - Bon Bennett  
(*Women's Course*)

Vocal Solo, When the Heart is Young, *Dudley Buck*  
Miss Cornelia Porter

Address, The Panama Canal  
Hon. Charles E. Townsend  
Jackson, Mich.

Vocal Solo, When Celia Sings - *Frank Moir*  
Miss Cornelia Porter

Conferring of Degrees



## BACHELORS OF SCIENCE

ADAMS, ETHEL MAE, W  
ANDERSON, ARTHUR J., a  
AUTEN, CLYDE I, M  
BAKER, HELEN DEBORAH, W  
BELL, R. FLOYD, M  
BEMIS, BESSIE E., W  
BENNETT, BON C., W  
BENNETT, FRANC C., W  
BENNETT, WILMER C., M  
BENTON, ZOE, W  
BOLTE, JOHN WILLARD, a  
BOS, WILLIAM M., a  
BROWN JESSIE, W  
BURK, OLIVER W., M  
BURRELL, ORANGE B., a  
BUSHNELL, LELAND D., a  
BUTTERFIELD, MARY A. W  
CAMPBELL, CLARA S., W  
CARL, ROSCOE J., a  
COAD, KATE M. W  
DAVIS, ELVA R., W  
DUNKS, FRED S., a  
FELDKAMP, CORA L., W  
FISK, ALEXANDER A., a  
FORD, CLEM C., M  
FOWLER, RICHARD C., M  
FRYMAN, GEO. R., M  
GARDNER, VICTOR R., a  
GUNNISON, ALTA, W  
GUNNISON, EDDY J, M  
HACH, CHARLES A., M  
HAFTENKAMP, JOSEPH P, M  
HINDS, SHERWOOD, M  
HINKSON, BERTHA, W  
HOWARD, FREDERIC B., a  
HUNT, HORACE S, M  
JACKSON, BERNICE, M. W  
JOHNSON, C. ERNEST, M  
JOHNSTON, FREDERICK L., M  
JORDAN WILLIAM F., M  
KENNY, E. GERALD, a  
KRATZ, FRANK J., M  
McALPINE, BRUCE, M  
McNAUGHTON, KATHERINE, W  
NICHOLS, GEORGE W., M,  
OVEN, HARRY C., a  
PADDOCK, BESSIE K., W  
PALMER, JOEL G., a  
PHILLIPS, BESSIE, W  
PICKETT, ANNA E., W  
PLACE, EDWARD C., a  
RAVEN, PAULINA, W  
REED, CLARENCE A., a  
RICHARDSON, SADIE, W  
ROBINSON, WALTER P., M  
RUPERT, EDNA, W  
SCHAEFER, JOHN E., a  
SMITH, NELSON J., a  
SOUTHWICK, SOPHIA I., W  
STEPHENSON, MARK G., M  
STERLING, CLARENCE D., M  
STEVENS, RALPH T., a  
STIMPSON, CLARENCE A., M  
STRINGER, CLYDE W., M  
STRONG, WILFRED, M  
SWALES, CHARLES E., a  
TAFT, LILLIAN, W  
TALLADAY, GEORGE F., f  
TUTTLE, H. FOLEY, a  
WESSELS, PHILLIP H., a  
WILCOX, ERNEST A., M

JAMES G. MOORE, M. S.

THESIS—EFFECTS OF SUPER-HEATED SOIL ON PLANTS