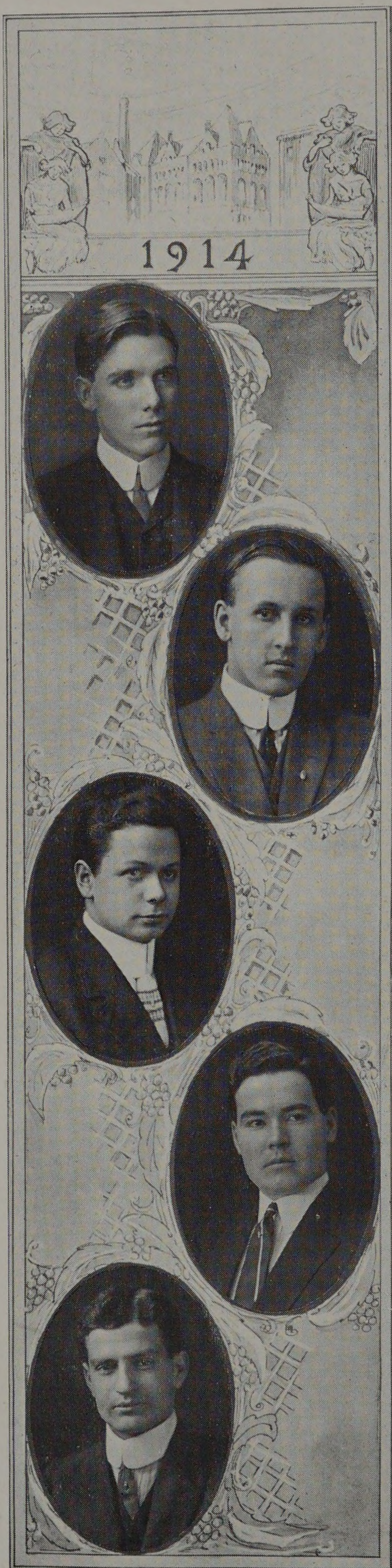


## THE CLASSES



### B. S. in E. E.

#### ROBERT W. WHITMORE

Electrification, Milwaukee Division, Chicago & North-Western Railway.

Born March 26, 1890, at South Milwaukee, Wisconsin. South Milwaukee High School, '10.

Eta Kappa Nu; Sphinx; A. I. E. E.; Y. M. C. A.; Managing Editor Armour Engineer, '13-'14.

"Whit" is a busy man, but that fact could never be learned by superficial means. He is a quiet chap who believes that noise, in a man as well as in an engine, is apt to indicate inefficiency.

#### WILLIAM C. DUMKE

Measurement of Capacity in Transmission Line.

Born August 10, 1891, at Chicago, Illinois.

Lake High School, Chicago, '10½.

A. I. E. E.; Y. M. C. A.; Armour Track '12-'14; Class Track '13-'14.

Dumke started in February, 1911, with the determination to graduate with the '14 class. That he has succeeded is to his eternal credit, especially in view of the time he has spent as a member of the track team.

#### RICHARD M. HEIM

Measurement of Capacity of Transmission Lines.

Born February 4, 1895, at Hinsdale, Illinois.

Armour Scientific Academy, '10.

A. I. E. E.; Y. M. C. A.

Did you notice the date of birth? Think of graduating from Armour at the age of nineteen. And as if that were not enough, he plays three musical instruments, particularly the piano, a fact to which many will gladly testify.

#### JOHN R. CHARLTON

A Study of A. C. Networks Containing Variable Resistance.

Born January 27, 1892, at South Kaukauna, Wisconsin. Austin High School, Chicago, '10.

Eta Kappa Nu; Y. M. C. A.; A. I. E. E.

"Ward boss" Charlton is famous for his political appearance at A. I. E. E. Meetings. His questions on such occasions are, however, genuine thought producers.

#### CHARLES H. SWARTZ

Comparative Test of Modern Incandescent Lamps with Reflectors, by Diffusion Methods.

Born February 5, 1892, at Baltimore, Maryland.

Armour Scientific Academy, '10.

Beta Phi; A. I. E. E.

Charley's smile is the kind that warms up the surrounding territory. That cheerfulness and a bountiful supply of common sense combine into a most pleasing personality is proved by making Swartz's acquaintance.