

DEVELOPMENT IN THE ELECTRICAL INDUSTRY

A SPLENDID OPPORTUNITY

Description of the New Course in Physical Training at The U. S. Naval Academy

The past quarter of a century has witnessed almost a revolutionary advance in the commercial and industrial status of the electrical profession.

Twenty-five years ago fully qualified electrical engineers were comparatively few. There was small demand for them. Electricians with a working knowledge of the theoretical or technical phases of electricity were inconsiderable.

Twenty-five years ago the American Institute of Electrical Engineers had less than 500 members. It now has nearly 10,000.

In industrial development, electricity a quarter of a century ago was in its infancy. The largest electric power plant of that day was an infant compared with those of the present time.

Then Very Small.

Long distance high voltage transmission was unheard of.

The nationally known electrical industries, the Westinghouse, General Electric, Commonwealth Edison, Cutler-Hammer Mfg. Co., Allis-Chalmers, etc., were then small, obscure plants. Men employed in the electrical industries of the country were less than 10 per cent of their total number today.

The annual report of the American Telephone & Telegraph Company for the year ending Dec. 31, 1918, shows a telephone wire mileage in 1895 of 675,415 miles, as opposed to 23,281,150 miles on Jan. 1, 1919, and 14,217 employees in 1895, against 199,914 in 1918. Street cars at that time were just beginning to be operated by electricity. Such stupendous latter day successes

as the automobile, wireless, X-rays, electric light and aeroplane existed only in the dream realm of invention.

Electrical Engineers Were Few.

Up to 15 or 20 years ago, electrical education was confined to two or three methods, the "trade apprenticeship" and the purely academic or "theory only" method. This condition, operating in conjunction with electricity's comparatively initial status of industrial development, created a situation in which electricity as a specialized profession was underestimated.

It divided the electrical profession into two widely apart classes—engineers and mechanics.

Each functioned in a separate field in thought and action. Each worked for the most part independently of the other. The electrical engineer was rated as a high-grade man. The electrician as an ordinary, unschooled "mechanic." In the eyes of the outside world the profession as a whole took its rating from the electricians, of whom there were many, rather than from the electrical engineers, of whom there were few.

Giant Industries.

Today all this is changed. Electricity has become the dominant industrial motive power of the world.

The modest little electrical shops of 25 years ago have given place to giant electrical industries of the present century. Practically every city, village and hamlet throughout the civilized world has at least one electrical power station to pump its water, supply its light or operate its transportation system.

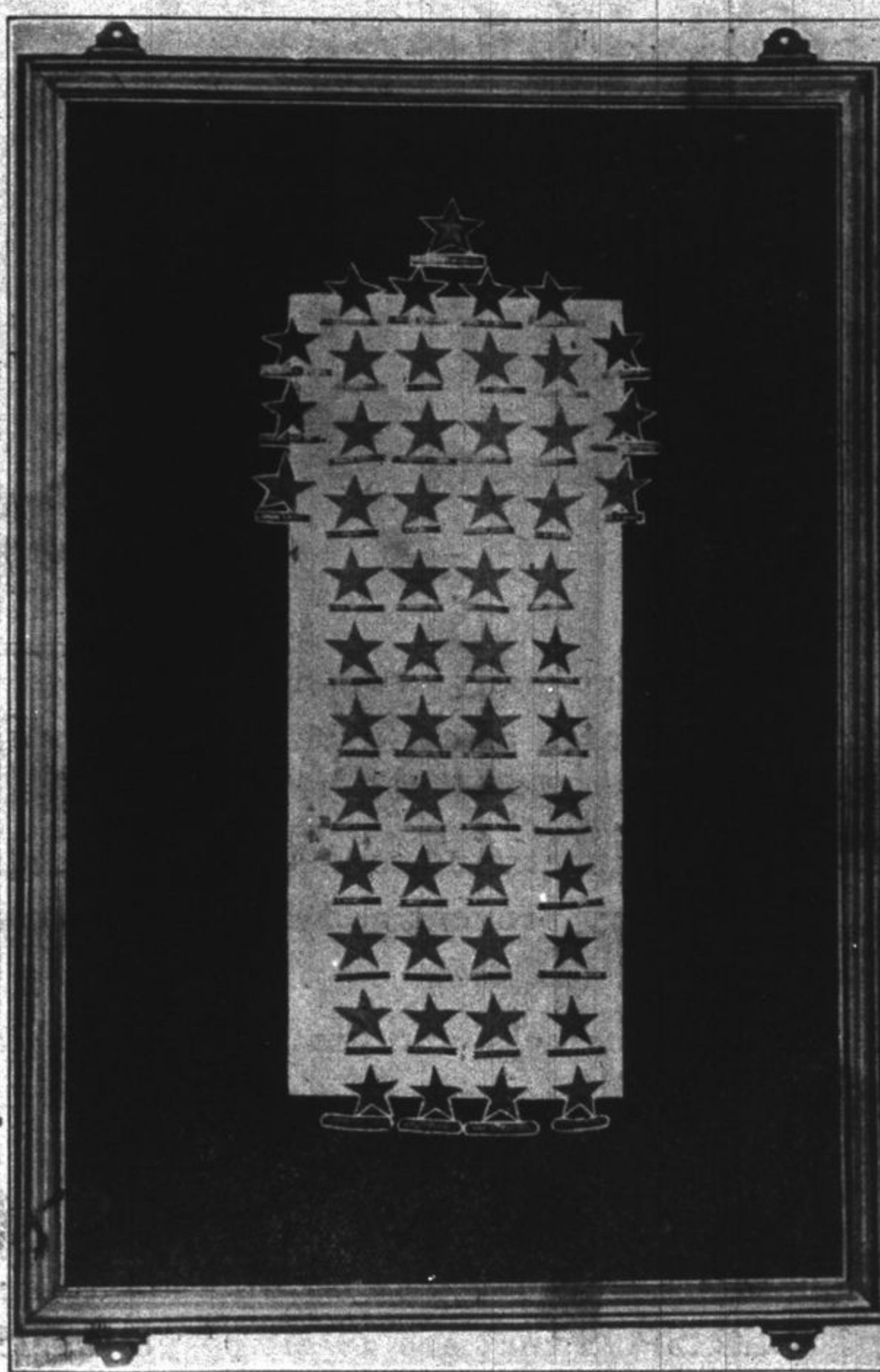
Thousand upon thousand of manufacturing industrial operations and processes, of pleasure and utility devices, of instruments and methods in the various trades and professions—practically every phase of life, every field of work, every branch of human activity and endeavor—have invaded the domain of modern electrical efficiency.

Electrical Workers in Demand.

The electrical workers, who, only a few years ago, almost entirely lacked theoretical training and seldom earned more than from \$600 to \$900 yearly, are now compelled to know much of the theory and principles of

(Continued on Page 5)

Presbyterian Church Service Flag



This flag has been framed and will be placed in a prominent position upon the wall of the Church. The unveiling and dedication will take place immediately after the morning service Sunday, December twenty-first.

EBENEZER EVANGELICAL

Preaching services are held every Sunday at 11 a. m. and 7:30 p. m.

The Sunday school meets at 10 a. m.

Prayer meeting at 7:30 p. m. on Wednesday.

A Christmas program will be given by the Sunday school on Christmas Eve. On account of the community singing on that evening, the exercises at the church will not begin before 7:45. A promiscuous program has been planned, consisting of musical numbers, anthems, solos, quartets, carols, recitations by the children, and songs by the school. An old fashioned Christmas tree will be the center of attraction in the platform arrangement. We extend a cordial invitation to our friends to enjoy with us the happiness of the Holy Night.

The Rev. Geo. G. Schmid of Portville, Cal., a former pastor of this congregation, preached a very instructive sermon last Sunday evening, choosing as his text Romans 1:16. Rev. Schmid passed through our city on his way to Cleveland, O., to attend an important board meeting of the denomination. His visit was greatly enjoyed by all.

The Great Forward Movement of the Evangelical association is now about ready to be launched. The period of time set for it extends from February 1st to the end of June. The forces of the Church are to be completely organized for the undertaking of greater things in the work for the Kingdom. The prayer life of the church, Bible study, evangelism, personal service, the sense of Christian stewardship, the raising of a fund of \$2,500,000.00 for the missionary, educational and benevolent agencies, all these are set as objectives of the Movement.

NAVY ATHLETIC COURSE MODEL FOR COLLEGES

BIG FIELD FOR ENGINEERS

Facts and Figures that Show Advance Made by Electrical Industry in the Past 25 Years

The graduation of a man from the U. S. Naval Academy at Annapolis is a fair guarantee of his all-round development. For years every move has been planned with an eye to his training. His class work and laboratory work, his drilling and athletics, even his social activities have had an expert hand to guide them.

The system of physical training recently instituted by Lt. Commander W. A. Richardson is a plan for perfecting the midshipman physically. It raises athletics to the level of any other part of his course. A man may fail, and be dropped from the Academy because of slackness, in athletics, just as in any of the class room work.

He must study boxing, wrestling, swimming, fencing, and gymnastics. He must be able to demonstrate the various holds in wrestling, the leads and feints in boxing, thrusts and guard positions in fencing, different swimming strokes, and be a pretty fair gymnast.

This is all in addition to any of the other sports in which he may be interested, such as baseball, football, tennis, lacrosse, hockey, etc. And the midshipman must be active in some form of athletics aside from his course in gymnastic activities.

Such a comprehensive training has another purpose than the health and physical fitness of the men. To quote Mr. Richardson, "All officers are (Continued on Page 5)

COMING--COMING--COMING

TO JOIN OUR CHRISTMAS CLUB

Doctors, Lawyers, Preachers, Merchants, Teachers, Farmers, Mechanics, Railroad Men, Laborers, Students from the Grammar and High Schools, Mothers with their Babies—are COMING. From Ravinia, Deerfield, Highwood, Fort Sheridan and from all sections of our city they have been COMING, COMING, COMING, TO JOIN OUR CHRISTMAS CLUB in response to our announcement and invitation of last week. Everybody is welcome and it costs nothing to join. The conditions of the various plans will be explained to you and you can acquire membership in any of the following clubs:

- PLAN A—SECURES \$12.75
First deposit 1c, increasing 1c each week for 50 weeks, last deposit 50c.
- PLAN B—SECURES \$25.50
First deposit 2c, increasing 2c each week for 50 weeks, last deposit \$1.00.
- PLAN C—SECURES \$63.75
First deposit 5c, increasing 5c each week, for 50 weeks, last deposit \$2.50.
- PLAN D—SECURES \$127.50
First deposit 10c, increasing 10c each week, for 50 weeks, last deposit \$5.00.
- PLAN E—SECURES \$12.75
First deposit 50c, decreasing 1 cent each week for 50 weeks, last deposit 1c.
- PLAN F—SECURES \$25.50
First deposit \$1.00, decreasing 2c each week, for 50 weeks, last deposit 2c.
- PLAN G—SECURES \$63.75
First deposit \$2.50, decreasing 5c each week, for 50 weeks, last deposit 5c.
- PLAN H—SECURES \$127.50
First deposit \$5.00, decreasing 10c each week, for 50 weeks, last deposit 10c.
- PLAN I—SECURES \$125.00
Deposit 25c each week, for 50 weeks.
- PLAN J—SECURES \$125.00
Deposit 25c each week, for 50 weeks.
- PLAN K—SECURES \$25.00
Deposit 50c each week, for 50 weeks.
- PLAN L—SECURES \$50.00
Deposit \$1.00 each week for 50 weeks.
- PLAN M—SECURES \$100.00
Deposit \$2.00 each week, for 50 weeks.
- PLAN N—SECURES \$125.00
Deposit \$2.50 each week, for 50 weeks.
- PLAN O—SECURES \$250.00
Deposit \$5.00 each week, for 50 weeks.

Will You Miss Out or Will You Grasp the Opportunity?

The HIGHLAND PARK STATE BANK

The Home of the Christmas Club

FRANK J. BAKER, President

J. M. APPEL, Vice President

C. F. GRANT, Cashier



Books

- \$1.75
- \$4.00
- \$3.00
- \$7.50
- \$4.50

Books.

ction

y

ON

AND RIBBON
NAMED JULIETS
and Maroon
50 to \$2.50

SOIR SLIPPERS
d, Brown and
Pink
\$2.50

DRESS SHOES
AT OXFORDS
variety of style.
50 to \$14.00

AND BOYS'
SHOES
& English Last
00 to \$4.00

ers