

ELECTRIC LIGHTS  
AMAZING GROWTH  
Permanent Illumination of  
Statue of Liberty an  
Example  
RECORD OF BRILLIANCY  
Constant Improvement in the  
Art Has Been Maintained  
for Years

Permanent illumination of the Statue of Liberty, on Bedloe's Island, in New York Harbor, lighted for the first time as an integral part of America's Electrical Week, is the most noticeable of all the flood-lighting enterprises in which the electric light has been used to great advantage.

Among recent applications of this type of lighting are the illumination of Niagara Falls, which gives to the vast stretch of America's greatest natural wonder a daylight aspect at midnight. Its accomplishment is effected without the obtruding, and often disgusting appearance of globes and lamps. This method of lighting was first demonstrated at the Panama Pacific International Exposition under the supervision of W. D. Arcey Ryan, the noted General Electric illuminating engineer.

AMAZED AT VAST STRIDES  
In connection with Electrical Week, which is being observed throughout America, many surprising results of electrical progress are being shown. Speaking of this phase of modern advance, T. K. Stuart, an electrical engineer, who recently returned to America from the Orient, where he has been supervising the installation of electric power plants, declares:

"If the Orient could behold the electric marvels of a typical American city the Americanization of the East would not be half the task it is."  
Mr. Stuart, like other former New Yorkers who return to the metropolis after being away for many years, was amazed by the immense strides in electrical development to be found in the "White Way." Speaking of the wondrous lighting progress, as impressed upon him since his return, Mr. Stuart said:

HUMPHREY DAVY, PIONEER  
The rapid strides today in the field of electricity are no less wondrous or interesting than the story of electric lighting itself. Sir Humphrey Davy, of London, was the first to demonstrate in electric lighting with any definite object in view. In 1809 he demonstrated the first crude light. He constructed a battery of 2000 cells to the terminals of which he attached pieces of charcoal. When these crude carbons were brought near to each other a bright spark was produced and more than half the volume of the charcoal was burnt to whiteness, and by withdrawing the points from each other a constant discharge took place through the heated air, producing a brilliant arc of light.  
"Until the discovery of the dynamo, thirty years later, this arc light was an expensive experiment. The first steady and continuous light was discovered in 1845 by Poucault, a French scientist, who hit upon the plan of using the deposits in gas retorts in place of the charcoal. The first practical use of the new light was made at the Grand Opera House during a performance of the opera "Moses," when an "electric sun" was used.

"FATHER OF ARC LIGHTING"  
Z. T. Gramme, a Belgian inventor living in Paris, in 1870 obtained his first patent on dynamo electric machines and exhibited his work to the Academy of Sciences in 1871. He is credited with being the father of the modern arc lighting, although arc lighting had been accomplished by older machines before the day of Gramme.  
"Werner Siemens and Sir Charles Wheatstone, of England, improved the dynamo in 1847 by doing away with the permanent magnets and substituting coils of wire about a soft iron core. Prof. Moses G. Farmer, an American inventor living in Salem, Mass., obtained the same results in 1846.  
"Early electric lighting was accomplished by direct current, as alternating current did not come into use until a score of years later. Lighthouses in the Straits of Dover were equipped with arc lights in 1855 and 1882, and similar work was accomplished in France in the latter year.  
"Taylorhook in 1876 patented a simple mechanism which considerably improved arc lighting. His invention consisted of two vertical sticks of carbon separated slightly by an insulating material which was consumed at the same time as the carbons. These lamps soon were lighting the streets here and abroad.

ADVANCE IN LIGHTING ART  
"A short time later Charles F. Brush and Edward Weston developed methods of series arc lighting and their systems were seen in general use. The first series Brush arc lamps were erected in the public square of Cleveland, O., in 1878. In the same year the first central station operating arc lamps was installed by the California Electric Light Company, of San Francisco.  
"Since the appearance of the Thomson-

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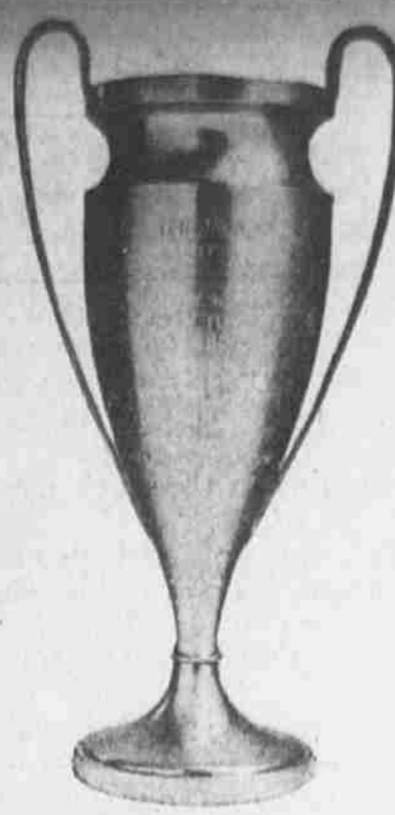


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ELECTRIC CUP WON  
The Philadelphia Electric Company Cup for the best-lighted window display of the members of the Walnut Street Business Association during Electrical Week, just closed, was awarded to the Sonora Phonograph Corporation, recently established at 1311 Walnut street. Honorable mention was made of the illumination displays of J. J. Habermehl & Sons, Stone's, H. T. Patterson & Co., and the Ville de Paris.

Houston system in 1881, when the first twenty-five arc-lighting machines were lighting streets, the development in the field of illumination has been rapidly advancing, until today it has reached the nearest approach possible to sunlight. In fact, the most recent development in lighting is called the daylight lamp. This is a gas-filled tungsten filament lamp, with a bulb of bluish tinted glass. This gas absorbs eight per cent of the light given out by the filament, but the result is a light that very closely approaches daylight. In reality, it is scientifically measured to be within one per cent of daylight.

MAKE GASOLINE FROM GAS  
100,000-Gallon Output This Year Predicted by Pittsburgh Expert

About 100,000 gallons of gasoline will be manufactured in the current year from natural gas without injuring the gas for use in cities, according to George A. Burrell, consulting chemical engineer and president of the Natural Gas Products Company, of Pittsburgh. He delivered an address last night at the Franklin Institute, in which he said the growing shortage of gasoline was causing grave concern to its producers. Mr. Burrell said that while natural gas is twice as valuable for fuel as the manufactured article, it sells for only one-third as much. In 1915 about 60,000,000 cubic feet of natural gas were sold, of which industrial consumers used sixty-five per cent and householders thirty-five per cent. West Virginia produces forty per cent of the output and consumes sixteen per cent; Pennsylvania produces twenty-two per cent and consumes thirty-one per cent, while Ohio produces ten per cent and uses twenty-two per cent.



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THE Juniors are compact, reliable cameras of high efficiency, easy to operate and so thin as to be pocketed without inconvenience.

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DUE VELI VOLI ITALIANI  
BOMBARDANO TRIESTE

Per Due Volte il Nemico Tenta di Forzare le Linee Italiane di Quota 208

ROMA, 8 Dicembre.  
Il Ministero della Marina ha annunziato oggi che due idro-aeroplani italiani hanno fatto una incursione sulla costa dell'Istria ed hanno bombardato gli stabilimenti militari di Trieste. Nonostante che i due velivoli fossero violentemente attaccati dalle batterie antiaeree austriache, essi ritornarono senza danni alla loro base. Gli aerei hanno tentato per ben due volte di attaccare la fronte italiana del Carso, e per due volte sono stati respinti con perdite, annunzia il generale Cadorna nel suo rapporto pubblicato ieri sera dal Ministero della Guerra. Ecco il testo del rapporto:


Continua il cattivo tempo su tutta la fronte, ma particolarmente nelle zone di montagna. Sull'altopiano del Carso e' continuata nella giornata di ieri l'attivita' dell'artiglieria. Nella sera il nemico, dopo una violenta preparazione di artiglieria, tentò due attacchi successivi sulle nostre linee a nord-est della Quota 208. Essi furono prontamente respinti con perdite e dovette rientrare nelle sue trincee. La caduta di Bucarest, che ormai si prevedeva da alcuni giorni, ha causato una profonda impressione in questi circoli politici e militari. Sebbene questo nuovo successo degli imperatori non derivava dal fatto che la situazione generale nella guerra europea abbia subito un cambiamento nella sua linea essenziale, pure si riconosce una serie di benefici derivanti per le potenze alleate, specialmente nel campo economico, giacche' i tedeschi hanno messo le mani su di una grande quantitativa di grano e sui ricchi depositi di petrolio. Nessuno può dire se i russi e i rumeni riusciranno a trattenere la marcia delle forze tedesche fuori della Moldavia ed a tenerle lontane dalla linea del Pruth, ma i più ottimisti che il piano che si attribuisce a von Mackensen di puntare in direzione di Odessa e' per lo meno di dubbia attuazione, giacche' e' da ritenersi che, se i russi non sono riusciti per una serie di ragioni

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1866—"The Best of Things Electrical"—1916

Read This

On Saturday the Evening Ledger will publish the opening chapters of a serial story entitled "Beyond the Great Oblivion." It is a continuation of "The Vacant World," now running in this paper.

"Beyond the Great Oblivion" is a better story than "The Vacant World." It develops the power of the author's unique setting—a world desolate and in ruins—and carries the story of a romantic love, 'mid imminent dangers, from strength to strength.

And just as "The Vacant World" struck a new note in the field of newspaper serials, so "Beyond the Great Oblivion" develops original and striking narrative qualities which will meet with wide favor. This is the story for you.

TOMORROW'S  
Evening Ledger

di errori a salvare Bucarest, non si sono ben fortificate e' miniti a nord appunto per impedire che in un momento dell'altro non MacKenzen potesse anche lontanamente intracciare le basi russe. Intanto in Ighiterra sono avvenuti importanti cambiamenti ministeriali. Il primo ministro Asquith aveva dato nei giorni scorsi le sue dimissioni che erano state accettate dal re. Il re ha incaricato il ministro della Guerra Lloyd George di formare il nuovo gabinetto, che e' stato fatto. Questo cambiamento significa una spinta maggiore alla condotta della guerra, giacche' in crisi era stata appunto provocata da Lloyd George che aveva di mira una maggiore intensificazione delle operazioni militari allo scopo di ottenere più sollecitamente quella vittoria che sembra ancora lontana. Una novicata fortissima ha interrotto le comunicazioni ferroviarie tra l'Italia in Francia e la Svizzera. L'altro e' sera il treno direttissimo Milano-Parigi era stato arrestato dalla neve e fino a ieri sera non era stato possibile stabilire dove si trovasse il treno giacche' i fili telegrafici e telefonici alle due estremita' della galleria del Sempione sono stati abbattuti dalla neve. A Briga ed a Domodossola la neve e' alta quattro piedi e al passo del Sempione e' alta otto piedi. Si ha notizia di molte valanghe sulle Alpi. Quaranta soldati sono rimasti bloccati nel rifugio del Sempione per gli ultimi tre giorni. Milano e' senza luce, giacche' i fili elettrici dalla parte di Domodossola sono stati abbattuti e spezzati e sepolti sotto la neve. E' ancora non si e' mandata sulle linee ferroviarie dalle città svizzere e da Milano.

HOUSE TAKES A DAY OFF  
Leaders Decide to Adjourn—Vocational Bill Up Tomorrow

WASHINGTON, Dec. 8.—The House took a day off today to wait for something to do. With no routine business yet perfected by the committee, the leaders decided to adjourn over until tomorrow when the vocational education bill, urged by President Wilson, will be taken up. Meanwhile the Appropriations Committee will endeavor to have the first big appropriation bill, the legislative, executive and judicial bill, appropriating some \$39,000,000 to pay salaries of Government officials and employees, ready for consideration on Monday.

Magistrate Assails  
Mail Truck Speeders

Continued from Page One  
From boys on I am going to deal most severely with every one of them. I consider it my duty as a Magistrate to do my little part toward protecting the public. I will hold this man in \$100 bail to await the outcome of the little boy's injuries."  
Milton was knocked down while playing at Colburn and Wakefield streets. He was taken to the Germantown Hospital suffering from cuts of the scalp and body and internal injuries. His condition is serious.  
Magistrate Watson's bitter arraignment of United States mail drivers follows denunciation yesterday of the same drivers by George E. Bartol, president of the Bureau. In protesting against abolition of the pneumatic mail tubes, Mr. Bartol said: "Already much criticism has been directed against the Postoffice Department in this city because of the reckless manner in which United States mail wagons are driven. Three-fourths of these drivers ought to be arrested and put into jail. I have watched them and have seen them charging through the traffic at the rate of twenty-five and thirty miles an hour, endangering the lives of our citizens. If we abolish the tubes for trucks, the change may cost us many more human lives, for it is certain that the drivers will put on more speed and will take still further chances."

Suffrage Advocate 35 Years Dead  
MOUNT CARMEL, Pa., Dec. 8.—John I. Shanahan, seventy-seven, merchant and politician, is dead here. In a political speech thirty-five years ago he advocated woman suffrage.

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AND Cor. 9th & Buttonwood Sts.

Boys Take Alleged Wife Beater  
A crowd of young boys captured a man who will be arrested today for beating his wife. Two boys who were passing a house at Eighteenth and Vine streets heard a scream and saw a man running from the house. They gave chase and were soon joined by others. The man bounded into his captors, but was tackled in another fashion and held until the arrival of the police. He gave the name of Ernest Brewer, of 201 North Eighteenth street.

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