## ENGINEERING PROBLEM ONE MORE TOWN OF WATER AND GASES

Difficulties Arise at City Hall Where the Tube Will Dip Considerably Lower Than Its Normal Depth

SUMPS" FOR DRAINAGE

Two of the most important problems fronting the engineers in the connction of the Broad street subway City Hall will be the drainage nd the proper ventilation of the tube. difficulty in each case arises from the fact that the subway, which will under the public building and the Market street subway, must dip to a level derably lower than the normal depth

As the track level of the subway will be from 10 to 12 feet below the city ater level, large quantities of water will seep through the rock and the conate foundations of the subway and will flow into the pecket wated by the dip in the tube. All heavy games and foul air also will sink nto this pocket by virtue of their natwal weight. The problem for the engipeers will be to prevent the accumulating and the gases from interfering with the operation of the trains.

The draining problem may be realized better when it is understood that the level of the subway under City Hall will approximately 25 feet below the sewers coming under Market and Broad streets.

After considerable study the engineers planning the subway decided to follow example set in the construction of New York subways and locate ma" at regular intervals.

A sump in engineering means a pit be-ow the working level of the excavation, ate which the water will drain. In the e of a sump under an ordinary buildthe drainage water collecting there I sink into the ground gradually, but sump in a subway is usually so near bed rock that the water cannot drain away naturally. Pumps must be used accordingly to empty the sumps.

In the section of the subway running beneath City Hall half a dozen such sumps will be located, all connected by a 15-inch drain pipe. The sumps themselves will be two by three feet in size. The frainage water will flow into these sumps from the bottom of the subway then will a pumped 25 feet into the street sewers by means of two submerged vertical shaft centrifugal pumps, each of 600 gallons per minute capacity. The pumps will be op-erated by electric motors automatically centrolled.

In building the Market street subway several small drainage sumps of similar nature were constructed. As the track level of the Market street line is only a few feet below the top of the main evers, the engineering difficulties there sere not great. Small pumps to empty he drainage sumps under Market street are now in operation along the line of the present subway at 22d, 15th, Juniper and 5th streets.

way will be less difficult, although none less important problem than the image. The present ventilation system of City Hall, with its series of air ducts and air chambers, will be used as a basis for the subway ventilation. The complete setals of the system have not been corked out as yet by the engineers in the City Transit Department, but it is eleved that large fans will be installed a drive the gases and bad air from the ocket of the subway into the air ducts and stacks now in use in the City Hall, it the same time the pumps will draw constant current of fresh air.

the specifications under which the conr will work require that the pres-entilation system of City Hall must be disturbed during the process of the astruction of the subway. Where there likelihood of dust and unpleasant a partition must be constructed h will make an air duct of the upper of the basement corridors and of ent rooms which contain heat

350 a Day Mount City Hall Tower An average of 288 persons daily climbed be big tower in City Hall in July to get a view of the city. The August record, however, will break the July's, as already the average has passed 350 persons a

The visitors to the tower totaled taxs last year. Boys Begin Long Hike Ten boys, none of whom is more than years of age, left the Rallroad Y. M. A. today for a hike to Wilmington. he boys are in charge of Alfred T.

Theatrical Baedeker ICK-Lyman Howe's Travei Pictures, first week will show the American vi native life in the Philippines, with a pas of head-hunters rites and the plant as National Cash Register Company.

No. Foto Films.

1983 KEYS—Musical Festival; Joseph K.

1984 Asian, a Philadelphian; the Five Brag
1984 the Reynolds Tric, Scibini and Grovini,

1985 the Reynolds Tric, Scibini and Grovini,

1986 the Property of the Property of the Property

1987 and Mrs. R. Decema; Marsh and Frye;

1988 and Violet Prance, in cycle act; Broom
1997 and Violet Prance, in cycle act; Broom
1997 and Ina Clare, in "The Puppet

1998 the Puppet

NRA."

DBIDE PARK—The Novelty Minstrels, beauerican Sextet Lucille Savoy, operatio cano; George Martin and the Walley Trio, INO—"The Rosey Pescy Clirks," in Peter Clarks, production of "The Redemption in or, She Sins Again," opening the like for the new season.

CADERO—"The Lady Buccaneers," with the dancer.

TANLEY-George Pawcett, in "The Majesty of the Law."



10 - Cent Baseball" stoney McLinn says there no such thing because he real sport can't be sold or a dime. Next Sunday McLinn tells why you get ust what you pay for. SPORTS MAGAZINE

# TO KEEP SUBWAY FREE BUILT FOR A PHOTOPLAY

Spanish City Square Permananently Constructed for Farrar's "Carmen"

By the Photoplay Editor Probably the most elaborate and larg-

est exterior scene ever constructed of steel and wood for the single purpose of providing a background for motion-pic-ture scenes is the recently finished Plaza de Toros for the photodrama production of "Carmen," in which Geraldine Farrar, internationally famous as a prima donna, is the star. is the star.
Some of the most stirring and pic-

Some of the most stirring and picturesque scenes in "Carmen" take place in the Plaza de Toros, of Seville, Spain. In the production of "Carmen" in opera form the Plaza de Toros is pictured on canvas. In the photoplay production this famous spot is actually shown in replica of steel, wood and planter. Of the last named no less than 25 tons were required in the construction work, of which eight tons were used in building the centre plece and gate. The work was done from carefully drawn plans made from photographs and measurements of the Plaza de Toros, in Seville.

The setting includes the intersection of two streets with buildings two and three

two streets with buildings two and three stories in height, on the front of which are balconies and porches. In the centre are balconies and porches. In the centre of the plaza is an elaborate drinking fountain with running water. This particular part of the setting may be retained permanently, as it is built of brick and concrete and as its usefulness has

been so frequently proved.

The unusual character and elaborate pretentiousness of the Edison feature masterpiece, "Vanity Fair." starring Mrs. Fiske, has made necessary a change in the advertised release date. "Vanity Fair." will be released October 6, instead of September 8.

"In its place the Kleine feature, "The Money Master," founded on Cleveland Moffett's play, "The Battle," completed some months ago and recently given its finishing touches, starring Frank Sher-idan, supported by Paul McAllister, Fania Marinoff and others, will be released Sep-

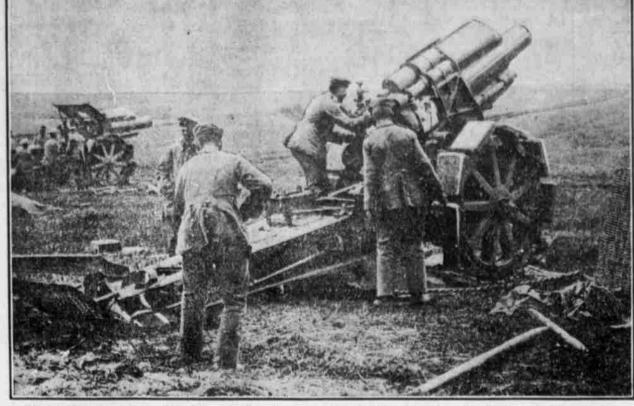
The Western garb usually worn by William S. Hart has been put away in moth balls for the present, and he is now strutting about the NYMP stages in a "soup and fish" costume make-up, the tails of which have not been trimmed. Mr. Hart is appearing in "Between Men," a story of American life, with scenes in the West and New York city. porting Mr. Hart in this are House Peters and Enid Markey.

Cyril Maude is again in London after his arduous spell of toll in screen acting in Los Angeles. When he has sold his heatre (The Playbouse) he will hasten back again to the irrepressible call of the Pacific Coast and start upon a film apostion of "Grumpy," possibly during fall. Maude's only appearance on the screen before "Peer Gynt" was made about three years ago in a version of W. W. Jacobs' comedy, "Beauty and the



GEORGE NASH Appearing on the screen in the Brady production, "The Cotton King."

GUNS THAT ARE POUNDING RUSSIAN LINES TO PIECES



The picture shows two of the big siege howitzers in action against Warsaw. In three weeks these guns have battered their way through eight powerful strongholds, the great fortress of Brest-Litovsk being

### RAILROADS TO BLAME FOR MOSQUITO PEST

City Entomologist Declares They Should Have Drained Meadows to South.

The mosquitoes that have afflicted this city have been more numerous this year than ever before because the Pennsylvania and the Schuylkill River East Side Railroad companies have built embankments across the meadows in South Philadelphia without providing proper drainage for the sections cut off, according to City Entomologist Herbert Hornig.

He asserts that the stagnant, mos quito-breeding water which covers the land in that section could have been carried away by conduits under the tracks and a system of branch sluices. Mr. Hornig said that when he went into the meadows to investigate the situation he was attacked by a cloud of mosquitoes so vicious that the blood from the stings covered his face and, running into his eyes, blinded him.

Mr. Hornig emphatically declares that Councils have been woefully negligent in providing funds with which to combat the evil, and points out that he has had at his command only 14 laborers to pour oil on pools and fill swamps and ponds with earth. To show how vast the task is, he asserts that 1300 wagon loads of earth have been dumped in a pool at 57th and Florence streets, where two children were drowned this summer, and that it was still deep enough on Tuesday to drown a horse which fell into it.

SEEK GERMAN SPIES HERE

Secret Service Men Scan Faces of the Suspicious Looking

Search was continued today by the United States Secret Service and the po-German spy movement said to have been active in this city or its vicinity. All vessels leaving this port today for

European countries are being closely ex-amined and suspicious-looking characters are being closely watched.

The investigation followed the arrest in Washington on Wednesday of Gustav Klopsch, a German reservist, who is accused of having photographs and drawings of Fortress Monroe and the new fort now under construction at Cape Henry.

different tribes and for the plans for a national monument to the American Indian near New York.

#### Police Court Chronicles There is a new milk inspector in town

His mysterious actions caused no end of trouble to the police in the northwestern part of the city. He doesn't stop the milk wagon drivers and test the liquid with a thermometer. He simply uses his eyes and a magnifying glass. To get the best results he examines the milk when it's on the front door steps.

On looking out the windows of their bed rooms several residents in the neighborhood of 19th and Oxford streets saw the inspector move from step to step



stealthily, pull out the mysterious glass and hold it over the bottles.

Word was sent to the police station, and as the cops never heard of a house milk inspector, Policeman Forsey was sent on the trail of the stranger. He followed him for a block or two, and as the man left each bottle safely on the step, the bluecoat was convinced that he was very sincere in his work. Forgey then concluded that the inspector was a private detective, who was tracing a case of milk poisoning, and was chuckling quietly over the discovery when he saw the man take a large bottle of milk and stick it under

The Inspector ran when he saw the coapproach, but was caught after a chase of two blocks. When he confronted Magistrate Grelis the prisoner hesitated about explaining his actions. Finally he de-clared that he was a buttermilk flend and admitted that lack of cash prevented him from indulging in this dissipation. He gave his name as Frank Keller of prowhere.

Keller confessed that the glass which he carried enabled him to tell quickly whether a bottle contained sweet milk or his favorite brand. The Judge gave him a permanent address for three months at the House of Correction.

Prize Goes to Wanamaker Party The Rodman Wanamaker Indian expedition, of which Dr. Joseph K. Dixon was the head, has been awarded a grand prike for uplift work by the Panama-Pacific Exposition jury of awards. Doc-tor Dixon was awarded a silver medal. The award was conferred for an exhibit of photographs and motion pictures illustrating the life and customs of the

### TRAP SET FOR ANIMAL WHICH POISONED CHILD

Family Flees in Dread of Mysterious Stinger, Which Eludes All

Traps balted with raw liver were set oday in the home of Henry S. Dooley, of 1837 South 57th street, to catch the mysterious spider or scorpion that nearly caused the death of Dooley's 11-months old son by its bites. The strongest kind of disinfectants have had no effect on the mysterious animal or insect and the trap method is the last resort.

Mrs. Dooley and the baby have gone to the home of a relative and will remain there until the bug is captured Dr. Hermann Hornig, the city entomolo gist, who spent most of yesterday trying to drive the bug from its hiding place feels sure that it is not a tarantula, the bite of which is nearly always fatal. Neighbors of the Dooleys are become

terrified by the failure of the city en-tomologist to kill or capture the mys-terious creature. The Dooley home is now swept clear of every bit of food except that contained in the special traps set by Doctor Hornig, in the hope that the stinger will become hungry. The neighbors, however, fear that it will get into one of the adjoining houses through cracks in the walls.

From descriptions given by Dooley, who saw the creature several times, but always failed to kill it, Doctor Hernig believes that it is either a scorpion or an unusually large variety of spider. Both scorpions and spiders are classed as ani-mals by zoologists. Should the liver-baited trap fail Doctor Hornig will make an effort to get a large

female spider to lure the bug from its TALL CEDARS' ANNUAL OUTING Picnic and Home-Coming Tomorrow

at Willow Grove

of Lebanon, whose headquarters are in the Parkway Building, Broad and Cherry streets, will hold the annual picnic and home-coming at Mineral Springs Grove. Willow Grove, tomorrow. There will be

baseball and races.

Louis H. Foster, the Grand Tall Cedar is making special preparation for the en-tertainment of the women and children. The Tail Cedars will be accompanied by their band of 60 pieces and their 50 rang-City and other points will participate.

#### SOFT-SHELL CRAB INDUSTRY THREATENED WITH DESTRUCTION

Catch This Year Dwindles by One-fourth, a Fact Attributed to the Dredging of the Breeding Grounds and Capture of Female Crustaceans

luxury, that only those with bulging delicacy will disappear from the market peaks Bay, the world's greatest breeding

said to be only three-fourths as large as that of last year, and will be even smaller

The main difficulty is said to lie in the attitude of the State of Virginia toward the fisheries, for although it is estimated that the annual catch is to be valued several million dollars, crabmen say that the dredgers at Hampton, Va., have been allowed to dredge the crab-breeding grounds in the winter time, gathering in crabs of every size, disturbing the spawning and ruining the beds,

MARYLAND NEGLECTFUL.

Maryland is said to have been grossly eglectful of the rights of her citizens. The boundary between the two States is the low-water mark on the southern bank of the Potomac, yet Maryland has allowed crab fishers from Virginia to use the waters at will, while the latter use the waters at will, while the latter State has passed laws which provide confiscation of ships and imprisonment of the commander of ships not of Virginia registry which fish the waters of that

Soft-shell crabs may soon become a laxury, that only those with bulging pocketbooks can afford, and possibly the delicacy will disappear from the market altogether, according to fishers of Chesapeake Bay, the world's greatest breeding ground for edible shellfish.

The catch in these waters this year is said to be only three-fourths as large as that of last year, and will be even smaller next season, it is believed, unless the instant of the male crab, it is said that the catch in the catch in the catch in the fact that female crabs, formerly discarded by all Maryland crab fishers, are now found in the markets of all cities in the Eastern United States, and although some like the flavor better than that of the male crab, it is said that the extermination of so many females will only hasten the ruination of the business.

Crabs seek warm water during the win-

Crabs seek warm water during the winter months and come to the shoals of the
Chesapeake by the thousand. Swepson
Earle, engineer of the Maryland Sheilfish
Commission, asserts that almost 80 per
cent. of the crabs found on the shoals
during the winter are females. It is this
field that is dredged each winter by the
crab dredgers of Hampton, Va.

MANY ENGAGED IN INDUSTRY

MANY ENGAGED IN INDUSTRY. Owing to the rapid growth of the crab industry in Chesapeake Bay, a large proportion of the inhabitants near the waters have turned to crab fishing as a means of livelihood. Cristield, Md., is devoted butirely to the business, and residents of that lowe are creatly allowed accounts. that town are greatly alarmed over the situation which now prevails. That cen-tre has already been affected to such an

#### BEQUEATHS \$10 TO CHILDREN

Adolph Schultz's Will Leaves Residue of \$2900 Estate to His Widow

Adolph Schultz, late of 229 Wood street, Adoph Schultz, ate of 22 wood street, bequeathed to his two children, William and Frieds Schultz, \$5 each from an estate of \$2927.88, in his will, admitted to probate today. The residue of the estate is devised in trust for the widow, Johanna Schultz, who is to receive the principal at the end of 19 years. Should the widow dis before the vertex true of the 16 years. die before the expiration of the 10 years the trust fund is to be divided equally among five children, Otto, Albert, Annie, Louise and John.

Louise and John.
Other wills probated today include those of John W. Platt, who left \$29,500 in private bequests; George Cooper, \$4400; Catherine T. Kelly, \$2000; Lawrence E. Bone, \$1863; George M. Thompson, \$1860. Personal property of Mary S. Dickey has been appraised at \$6816.89; Anna Kemble, \$1861.81.

PRESIDENT TAKES A STROLL

Spends an Hour on the Streets of the Capital

WASHINGTON, Aug. 27. - President Wilson started his daily exercise by strolling in the streets of the capital for an hour today. He first went to his bank, several blocks from the White House.

Then he walked up 14th street, stopping occasionally to gaze at window displays. The President chose a quiet hour of the morning, when the streets generally are not congested, and attracted little attention. Several secret service men accompanied him.

On the return to the White House the Chief Executive and his escort passed through the Treasury Building.

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