

NEW USES FOR KITES

SCIENTISTS HOPE TO EVOLVE FLYING MACHINES FROM THEM.

The Kite-flying Contests at St. Louis, Major Baden-Powell and Professor Bell—The Latter's Experiments in Kite Building.

Kite-flying, which used to be mere child's play, has now been taken up as a serious study by scientific men. It is their expectation that the kite can be evolved into the flying machine by patient study of the problems involved and experiments in kite-flying.

Encouragement to experiments along this line has been given by the world's fair aeronautic contests. The management of the fair, besides offering a grand prize of \$100,000 for the winner of the airship contests, provided valuable prizes for the winners of subsidiary aerial competitions, including kite-flying. Among those participating in the experimental flights at St. Louis were such eminent and scientific kite-fliers as Alexander Graham Bell, inventor of the Bell telephone; William E. Eddy, inventor of the Eddy kite; and Major R. F. Baden-Powell of England. It so happened that the prize was won, not by a scientist, but by a sixteen-year-old boy, J. B. Wardwell of Stamford, Conn.

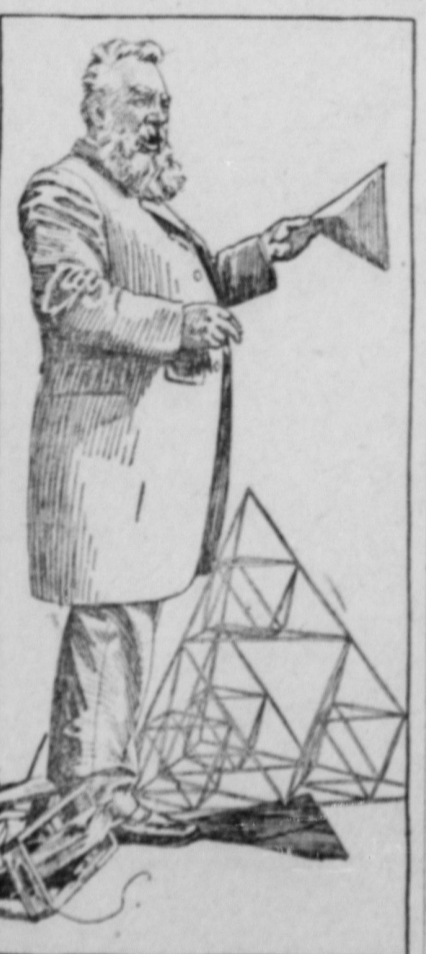


MAJOR R. F. BADEN-POWELL.

Major Baden-Powell is a brave soldier as well as a scientific kite-flier, but he should not be confused with Major General Robert S. S. Baden-Powell, the defender of Mafeking in the South African war. Major Baden-Powell also fought and won distinction in the war against the Boers. He is a younger and lesser known officer than the major general of the same name, however. Major Baden-Powell is an officer of the Scots guards, has written much on scientific subjects and is the founder and proprietor of the Illustrated Scientific News.

When a man who has made such a success in both business and science as Professor Bell takes up kite-flying it makes people think there must be something more than boy's play in it. Professor Bell has explained in the National Geographic Magazine the principles of his tetrahedral kite. A tetrahedral kite is one having four equal triangular sides or it may be composed of a number of such structures. He says that a properly constructed flying machine should be capable of being flown as a kite, and,

conversely, a properly constructed kite should be capable of use as a flying machine when driven by its own propellers. He adds: "Given a kite so shaped as to be suitable for the body of a flying machine and so efficient that it will fly well in a good breeze (say twenty miles an hour) when loaded with a weight equivalent to that of a man and engine, then it seems to me that this same kite, provided with an actual engine and a man in place of the load and driven by its own propellers at the rate of twenty miles an hour, should be sustained in calm air as a flying machine. So far as the pressure of the air is concerned it is surely immaterial whether the air moves against the kite or the kite against the air."



ALEXANDER GRAHAM BELL EXPLAINING HIS TETRAHEDRAL KITE.

Professor Bell's kites are composed of various combinations of tetrahedrons, some of the kites looking large enough to be floating houses.

CAPITOL BEAUTIES HIDDEN

Park Should Be Extended to Aford Setting For State Building.

A bill will shortly be presented in the state legislature at Harrisburg for the extension of the state capitol park, a project which has been urged for years, and which in the opinion of everyone who has seen the new state capitol, is needed if the magnificent structure is to be given an adequate setting. This measure has been outlined and will receive the hearty support of members of the legislature from all parts of the state.

The plan for park extension has been endorsed by Architect Huston, whose plans have been carried out for the new capitol, and to whom is due the splendor of the building which is rising on historic Capitol Hill. It has been a subject which has received periodical attention for many years, but which never took definite shape before. Now general interest in all parts of the state has been aroused, and since the proportions of the state's new official home can be seen it is realized that unless something is done to provide more room the structure, on which there has been expended a wealth of idea and millions of state money, will be practically hidden. A building notable for its stately appearance, its handsome decoration and beautiful material, is being built in the midst of a city, so that it will be unappreciated unless one goes almost beside it.

In order to appreciate this condition it is necessary to give some idea of the location of the state house at Harrisburg. The building is being erected on Capitol Hill, an eminence which is from eight to 15 feet above the streets in the heart of Harrisburg, and which is bounded on all sides by paved thoroughfares lined with business and residential buildings, some of which, especially on the side which it is proposed to take, are anything but beautiful. On the west side of the capitol park stretches the chief residence district of the city containing many fine homes, several of the city's largest churches, the new Y. M. C. A. building, one new theatre, the government's stately granite building and for which are projected a Masonic temple and a Roman Catholic cathedral, which will cost far over half a million dollars, in addition to other buildings. To extend on this side would be manifestly impossible because of the expense even though it is bounded two squares from the capitol by the beautiful Susquehanna.

The proposed improvements are to be on the east side. If it had been destined by the founders and builders of the capitol to have it taken into the park some day it could not have been planned better. It has never been developed worth speaking about. It contains some industrial plants, none of them attractively built, a soap factory or two, a market and some small churches, the bulk of the buildings being small and many of them rickety frame buildings, characteristic of the poorest section of a city. Some idea of their character can be gleaned from the photographs presented.

Because of this growth of the city there are just two points from which there can be obtained good views of a block a view embracing about half of the front of the building, with its flight of steps, can be had. Extension of the park there is considered out of the question because of the expense. On the east side State street gives the other view, equally circumscribed. At no place can there be obtained a view of the state house so that its decoration and graceful outline can be satisfactorily observed. On the side where it is proposed to make the extension of the park the capitol rises from a city street, towering so that even on the opposite side of the highway it is necessary to crane one's neck to see the balustrade on top of the main building.

The section which it is proposed to take contains four streets running north and south and an equal number running east and west, there being also several alleys whose removal would be a good thing for all concerned. This project has long been a favorite one with lawmakers and state officials to whom the eastern outlook from the capitol has been an eyesore, and who realize that at comparatively small cost the park can be extended so that the \$4,500,000 capitol will not be hidden, but can be given a setting like those of other states, and where the citizen of Pennsylvania may view with pride the unmatched capitol of his state.

Cheating Pennsylvania Pastors.

Out of a total of 851 marriages solemnized in Binghamton, N. Y., this year, 495 have been those of Pennsylvania couples who crossed the state line to avoid the license system in vogue in this state. Towns lying just over the border have been the scenes of numerous weddings of Pennsylvanians since the present laws were enacted and as a result immense sums of money in fees which should have been handed to Pennsylvania clergymen and justices of the peace, have found their way to the pockets of outsiders—a form of free trade that is not at all pleasing to those who have failed to get the cash.—Bradford Era.

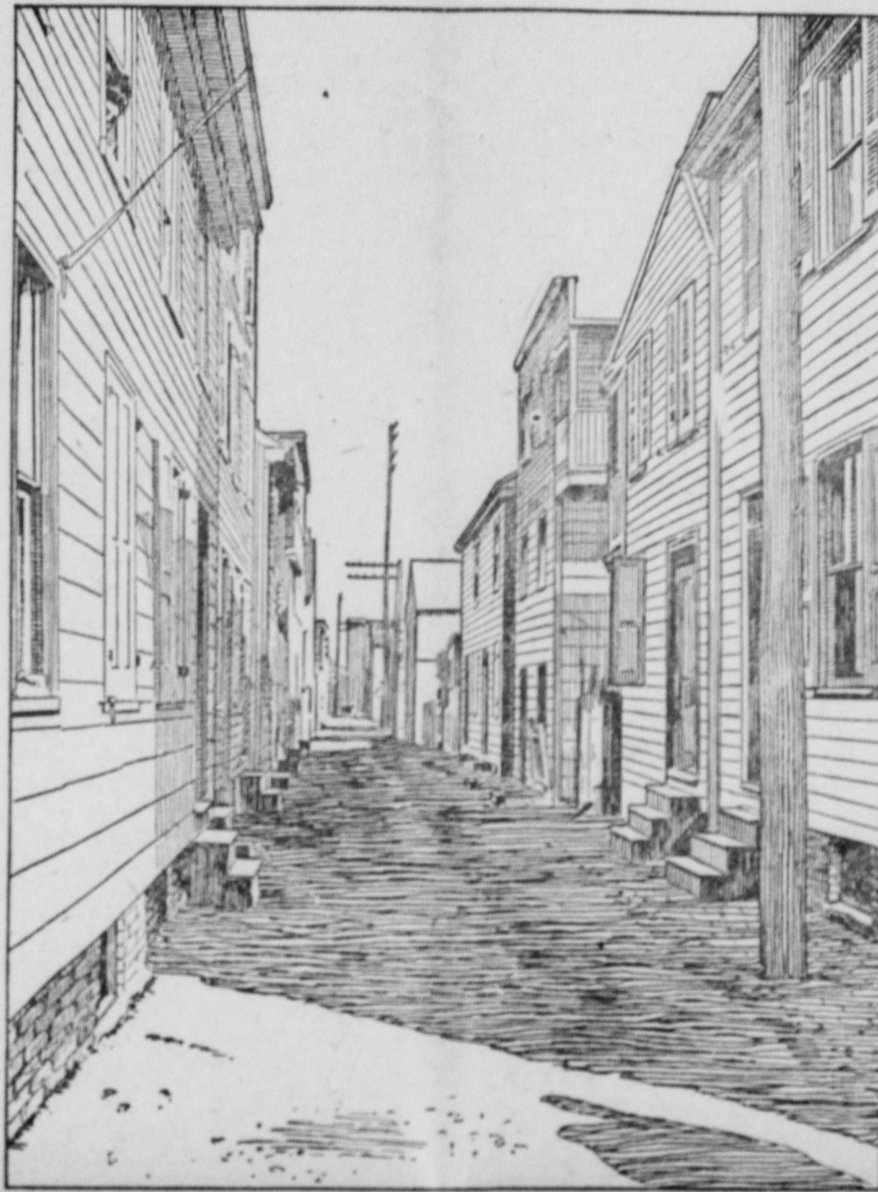
After Coal and Oil.

The "Millburg Mineral Company" is a new proposition in Union Co., chartered recently. The company has leased nearly 1,400 acres of land in Lewis and West Buffalo townships and it is their purpose to develop the mineral resources of that district—coal, natural gas and oil being the principal objects of their search.

Guessing Match.

A guessing match about cats is entertaining. Write out the following list for each competitor without giving the answers, which are printed in parentheses, and the ones guessing the largest number wins:

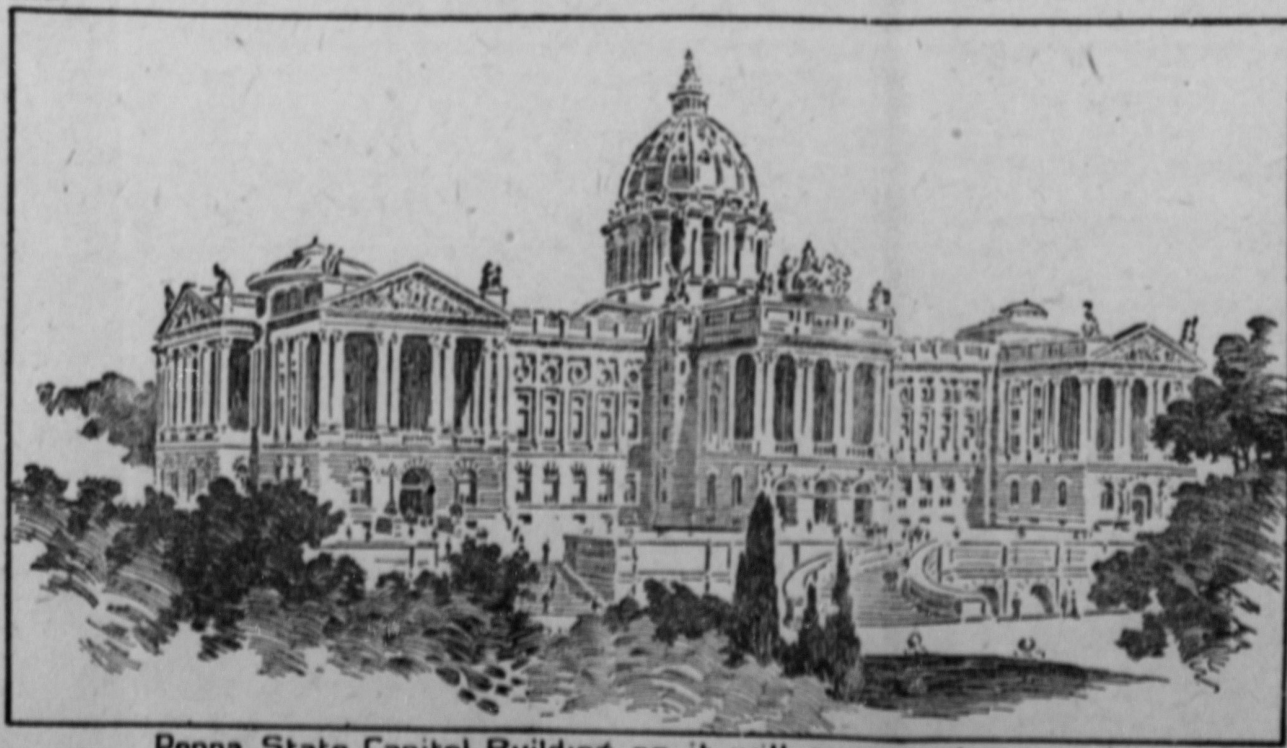
- A dangerous cat (catastrophe).
- An aspiring cat (catamount).
- A cat that can swim (catfish).
- A cat that can fly (catbird).
- A cat that will be a butterfly (caterpillar).
- A library cat (catalogue).
- A cat that asks questions (catechism).
- A cat's near relations (catkin).
- A cat that is good to eat (catsup).
- A horned cat (cattle).
- A cat that throws stones (catapult).
- A tree cat (catapla).
- A water cat (cataract).
- A cat that flavors the grapes (catawba).
- A cat that covers acres of grounds (cataclysm).
- A subterranean cat (catacomb).
- A cat that living appears dead (catalepsy).
- A cat prized as a gem (catseye).
- A cat with a cold (catarrh).



Looking west on South Avenue from Fifth Street.



Toward Capitol Building from Fifth Street on North Avenue.



Penna. State Capitol Building as it will appear when completed.

THE PUZZLER

No. 288.—Transpositions. Transpose a metal and have quantity. Transpose to defy and have to understand by characters or signs. Transpose to whip and have a game. Transpose to sentence and have humor. Transpose caution and have swift progress.

No. 289.—Pictorial Puzzle.



The name for a certain class of vegetables may be found represented in the picture.

No. 290.—Charade.

My first was once exalted as a sign in heaven and is reckoned bold and fierce, but is often found among the simple and meek. It was formerly a means of destruction employed with great force.

My second was once thought to possess magic powers. In one form it gives pleasure to many persons; in another it is an object of dread.

My whole is of use to the sportsman and soldier.

No. 291.—Riddle.

It is an engine of dread war; You'd fear it than a tiger more. Yet in your house in every room 'Tis found, if I do not presume. It helps to beautify your walls And mix the drugs for doctor's calls. 'Tis blue or white or green or pink—I like a rich cream best, I think.

No. 292.—Central Syncope.

Example: Syncope, or take out, the two middle letters from a ruler and leave a break. Answer, re-ent, rent. 1. Syncope to disclose and leave genuine. 2. Syncope idea and leave part of the day. 3. Syncope a royal dwelling and leave gait. 4. Syncope form and leave flame. 5. Syncope evil spirits and leave caves. 6. Syncope

awp and leave a rocky ridge. 7. Syncope active and leave a flower. 8. Syncope affectionate and leave protracted. 9. Syncope to mix and leave a measure of length. 10. Syncope discharging a debt and leave a sudden pain.

No. 293.—Half Square.

1. A theatrical composition. 2. A flower. 3. A poisonous serpent. 4. A pronoun. 5. A letter.

No. 294.—Decapitations.

Decapitate a thicket of shrubs and have drink. Decapitate a tournament and have to eject with force.

No. 295.—Primal Acrostic.

A celebrated ancient city in Africa, once the rival of a still more important city in the south of Europe. 1. An island in the Mediterranean, the birthplace of a very remarkable man. 2. A town in European Turkey named after a famous Roman emperor. 3. A celebrated city in Italy. 4. A Roman emperor who was much loved by his people on account of his mercy and kindness. 5. The last Saxon king who reigned in England. 6. The name of a queen of England. 7. A large province in Spain which was long in the possession of a foreign people who came from another continent. 8. A river in Spain.

No. 296.—Anagrams.

Rite in sea—To travel. Same in Jes—A plant.

Conundrum.

What does a stone become in the water? Wet.

Key to the Puzzler.

No. 279.—Diamonds: 1.—1. B. 2. Bro. 3. Green. 4. Strange. 5. Breakfast. 6. Uniform. 7. Frame. 8. Asp. 9. T. H.—1. T. 2. Ore. 3. Slate. 4. Tragedy. 5. Sleet. 6. Ode. 7. Y. No. 280.—Jumbled Proverbs: "It is a long lane that has no turning." "A rose by any other name would smell as sweet." No. 281.—Double Acrostic: Benjamin Franklin. 1. Bluff. 2. Educator. 3. Nebula. 4. Japan. 5. Amuck. 6. Madrigal. 7. India. 8. Navigation. No. 282.—Charade: O-pi-ate. No. 283.—Numerical Enigma: Ivanhoe. No. 284.—Curtailments: Bar-e. Bar-d. No. 285.—Two Writers: Ewing. Lamb. No. 286.—Cube and Inclosed Square: 1 to 2, Baltimore; 1 to 3, Bethlehem; 2 to 4, Euphrates; 3 to 4, moonbeams; 5 to 6, clearness; 5 to 7, Caribbean; 6 to 8, sagacious; 7 to 8, narcissus. Central words—1. Clear. 2. Akkra. 3. Remit. 4. Issue. 5. Beams. No. 287.—Buried Cities: Elmira. Meriden.

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