

**OMAHA BECOMES A SMOKELESS CITY.**

Omaha is making rapid progress in its program for a smokeless city through the enforcement of its new smoke ordinance. The ordinance provides that the chief engineer of the city building department shall be chief smoke inspector, with as many deputies as necessary. A smoke abatement commission, consisting of two operating engineers, one building manager, one architect, the smoke inspector, and one mechanical engineer, inspects heat or power plants whenever requested.

When an owner of a heat or power plant desires to make any change or new addition to his plant, he must submit plans and specifications to the smoke inspector for approval. The ordinance also specifies the clearances required for setting boilers, size and height of smokestacks, and that all portable boilers used for construction or temporary purposes, such as pile drivers or steam rollers, shall use smokeless fuel. The emission of dense smoke is prohibited except for a period not to exceed six minutes in one hour.

The city smoke inspector declares that conditions are five per cent. better than they were three years ago. Some 85 owners have been induced to install mechanical stokers or similar equipment, thus making firing uniform and preventing the belching of dense smoke. The smoke inspector has found that most smoke is caused through ignorance of proper firing methods. He has undertaken to prepare a booklet which will give the proper methods of firing together with explanatory charts and diagrams.

The method of checking violations is to station men on the tallest buildings in Omaha for checking the smoke emission. Cooperation is sought with the owner, and this method has been so successful that it has been unnecessary to prosecute anyone in the two years during which the ordinance has been in operation. —"Civic Comment."

**Protection Given to Flyers Carrying Mail.**

In preparing for night flying in the air-mail service, four classes of equipment are used at regular fields to give the pilot as nearly as possible the same illumination of the field at night as is available in daylight. This is accomplished by a powerful unit. In addition to the large field light, all buildings on the field are flood lighted by smaller units. The beacon lights are placed on 55-foot towers and serve to guide the pilot and show him the location of regular and emergency landing fields. A revolving projection type of beacon is used. The drum revolves with a frequency which gives a flash every ten seconds. The rotating beacons are of two classes, electric and gas. The electric rotates six times a minute, and the gas beacons flash 60 times a minute. Both assist in keeping the pilot on his course. The boundaries of all regular and emergency fields are out-lined with white electric lights placed 150 to 300 feet apart.



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**1928 TOURS GUIDE FOR MOTORISTS.**

Motorists who plan to take a vacation tour, this summer, will be interested to know that The Automobile Club of America has just published the fourteenth edition of its annual road book, the 1928 Associated Tours Guide, which is now ready for distribution.

The Guide in its one hundred and twenty-eight pages, contains a wealth of useful information for exactly planning where to go on your vacation trip and how to get there. Then motor maps, mileages and itineraries shown in the Guide, covering the vast area of the United States east of the Mississippi and eastern Canada, as well as the more popular transcontinental and trans-Canadian routes, afford the motor vacationist a wide range of touring fields from which to select.

In all, the Guide gives over one hundred and twenty-five thousand miles of the best, hard surfaced highways in the country, especially chosen for their charm of scenic outlook, leading to seaside, mountain and inland resorts of rest and recreation. For motorists who plan a drive of any considerable distance the complete motor map of the United States and corresponding itineraries given in the Guide, will furnish adequate information for the entire trip. A large folding map of the entire eastern section of the country, bound in the Guide, is handy for planning a large scale tour.

A feature of the Guide that motorists are apt to appreciate is that all itineraries are so arranged as to allow for a logical stopping place at the end of each day's run, where accommodations for the night in a good hotel or inn may be found. Both the National and State Highway numbering systems are shown on the maps and in the routes. There is also given a digest of all the State motor laws, speed restrictions, license regulations, ferry schedules, as well as numerous maps showing how to enter, leave or avoid them.

Among the tours with large maps in the Guide are: Adirondack, Canadian-Pacific, Cape Cod, Capitol, Dixie, Granite State, Maine, Mid-West, Great Lakes to Gulf, Green Mountain, Lake Land, Ideal, Long Island, Montreal-Quebec, New Jersey, Post Road to Boston, Real Tour to the Berkshires, Scenic, Shenandoah and Transcontinental.

For the convenience of motorists, the Guide will be distributed through local newsdealers in all parts of the country or may be obtained by remitting fifty cents, to cover cost and postage, to The Automobile Club of America, 12 East 53rd Street, New York City.

**Pennsylvania Supreme Court Makes Road Bond Ruling.**

Pennsylvania Supreme Court placed a limit on road bond issues. In an opinion by Chief Justice Von Moschizker he held that with the issuance of \$100,000,000 of bonds for road purposes under the constitutional amendment of 1923 that the power of the legislature and state officials is exhausted and further that with the realization of the full amount there is nothing in our laws to authorize the re-issue of bonds which have been purchased by the sinking fund, cancelled or retired.

The higher court affirmed the action of the common pleas court of Dauphin county which enjoined the State's officers from replacing the extent of \$3,000,000 road bonds which had been purchased by the sinking fund and paid off. The suit was filed by William W. Montgomery, Jr., a taxpayer, against Edward Martin, Auditor General, and Samuel S. Lewis, State Treasurer.

The chief contention of those who have opposed the proposed \$50,000,000 road bond issue has been that it was unnecessary because the highway department could re-issue the bonds already authorized as fast as they were redeemed. The Supreme Court decision sets that contention at rest. If Pennsylvania is to carry out its ambitious program of road improvement the passage of the road bond issue is a prime necessity.

**America's Industrial Gas Use Totals Monthly 400,000,000 Cubic Feet.**

During the last fifteen years the use of gas in American industry has steadily increased until at the present time the monthly consumption is approximately 400,000,000 cubic feet.

Gas is used in thousands of manufacturing operations requiring the use of heat. There are now 21,000 uses to which gas is put in industry, according to George E. Whitwell, general manager of the Philadelphia Company, Pittsburgh.

In Milwaukee, a gas furnace 190 feet long treats twenty-five tons of malleable iron castings each day. Syracuse, New York, has a 385-foot continuous carburizing furnace, said to be the largest of its type in the world.

There are twenty-four continuous furnaces in a large Toledo, Ohio, automobile plant, which consume 60,000,000 cubic feet of gas monthly. The operations of these furnaces include annealing, hardening, carburizing and heating for forging. Numerous automobile plants, including those of the Ford Motor Company, use gas extensively in annealing forgings and castings.

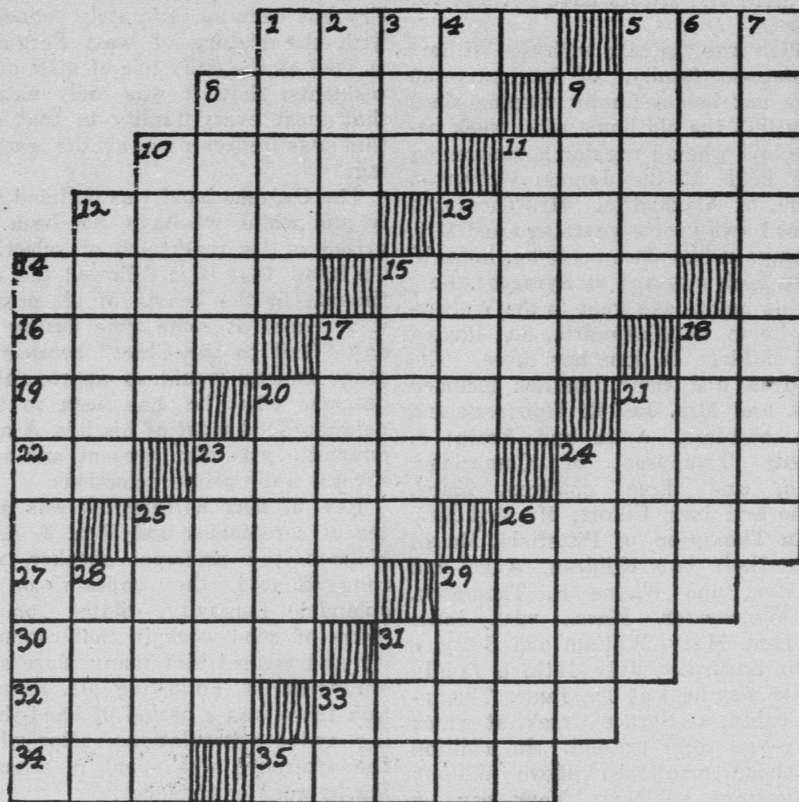
**Publish Booklet for Prospective Engineers.**

To assist high school boys who desire to enter the technical professions, an illustrated catalogue has just been published by the School of Engineering at the Pennsylvania State College. The booklet tells in detail what qualifications the prospective engineering student should have, the kind of studies he will undertake in college, and the opportunities in the particular branch of engineering he hopes to enter. Copies are free and may be obtained from the office of the dean of the School of Engineering at State College.

**HOW TO SOLVE A CROSS-WORD PUZZLE**

When the correct letters are placed in the white spaces (this puzzle will appear both vertically and horizontally). The first letter in each word is indicated by a number, which refers to the definition listed below the puzzle. Thus No. 1 under the column headed "horizontal" defines a word which will fill the white spaces up to the first black square to the right, and a number under "vertical" defines a word which will fill the white squares to the next black one below. No letters go in the black spaces. All words used are dictionary words, except proper names. Abbreviations, slang, initials, technical terms and obsolete forms are indicated in the definitions.

**CROSS-WORD PUZZLE No. 1.**



(©, 1926, Western Newspaper Union.)

**Horizontal.**

- 1—Hobo
- 5—Confederate states of America (abbr.)
- 8—Humble
- 9—Strokes gently
- 10—Construct
- 11—Silver coins
- 12—One of the hereditary classes into which the society of India is divided
- 13—Ice beverage
- 14—To wash lightly
- 15—Raccoons
- 16—Small whirlpool
- 17—One of the dry tablelands of Africa
- 18—Street (abbr.)
- 19—Bronze
- 20—Pertaining to the nose
- 21—Blackbird of cuckoo family
- 22—Physician (abbr.)
- 23—A weak person
- 24—Faciously short name given to a famous Egyptian queen
- 25—Fibrous plant of Asia
- 26—Teutonic god for whom Wednesday is named
- 27—Imaginary line on earth's surface connecting places of the same barometric pressure for a given period
- 28—Wanderer
- 30—Used a saw
- 31—Poet

**Vertical.**

- 22—Always
- 23—Kind of tree
- 24—Lair
- 25—Same as 25 horizontal
- 1—Hackneyed
- 2—Part in a play
- 3—Conjunction
- 4—This person
- 5—Encampments
- 6—A pace
- 7—A statement
- 8—Cat
- 9—Stringed musical instrument
- 10—Group of musicians (pl.)
- 11—Drivel
- 12—Beverage made from apples
- 13—A raid
- 14—To instruct again
- 15—Same as 12 horizontal
- 17—A native of Kafiristan
- 18—To show contempt by curling the lip
- 20—A egypt
- 21—A kind of tree
- 22—Sword
- 23—A blanket
- 25—A second-growth crop
- 26—Female person
- 28—To conserve
- 29—To take a trip in a vehicle
- 31—Color
- 32—Company (abbr.)

Solution will appear in next issue.

**Penn State Alumni to Aid with Bond Issue.**

In order that the Pennsylvania State College may have opportunity to present to voters of the State the need of the college for additional buildings, alumni and former students have started a fund to finance dissemination of information concerning the proposed amendment to the State constitution that would provide a \$8,000,000 bond issue for the erection and equipment of college buildings.

This bond issue amendment is to be presented at the November election for the approval of voters, and alumni are anxious that information concerning the college building needs be presented in all sections of the State. The class of 1903 at its 25th reunion started the fund and other reunion classes followed this lead. The college plans to conduct a quiet but intensive educational campaign during the summer and fall. The State as a whole will benefit through added facilities at the institution for the admission of all qualified applicants, and for more research and extension so greatly needed, which could be provided through passage of the bond issue.

**Machinery Doing Away with Labor.**

How improved methods of production deprive many workers of their jobs in a big copper refining plant while at the same time largely increasing output per man, is told by the Bureau of Labor statistics, United States Department of Labor, in the Monthly Labor Review.

The copper refining company, which is not named, furnishes data on its comparative output and employment in January, 1918, which was the peak employment period, and August, 1927. During this period of nine years, the number of men employed was reduced from 578 to 233, while production increased approximately 10 per cent.

The company told the Bureau of Labor statistics that with the contemplated improvements not more than 100 men should be needed. The reduction in working force, it was stated, included both skilled and unskilled labor.

What became of the men who lost their jobs is not stated.—International Labor News Service.

**New Ruling for Air Pilots.**

More than 100 pilots operating airplanes under Federal licenses will be eligible for Pennsylvania State licenses without further examination, officials of the State Aeronautics Commission have announced.

At the same time it was announced that 13 planes now holding Federal licenses will be granted State certificates without further inspection.

The State aviation code drafted by the Aeronautics Commission becomes effective July 1.

Under the same ruling the Commission announced that fifty student pilots who have passed Federal physical tests also will be recognized. Qualifications of pilots, equipment of planes and landing fields will be covered by the new regulations.

**Solution of Last Week's Puzzle.**

GHORNS PUSHED  
TRAIL FIRE EIDER  
HA LOSS AYES BE  
ACE WATERED ETA  
DEAL PEALS HASP  
E R A T R S HAS E  
SENTRY BARTER  
N EARS PALM K  
ADORNS ALFRE  
F GAS A A SUE E  
ROLL ADEPT LAMP  
ICE BIDDING DOT  
CE TOLL ATOM DH  
AARON ERR NAMES  
NEWELS YIELDS

**Small Bills Next Year.**

Washington.—Acting Secretary of the Treasury Mills announced today the new United States paper money—about one-third smaller than present bills—will be put in circulation July 1, 1929.

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