

Illinois' price, the new Centennial Memorial building at Springheld, to commemorate the one hundredth anniversary of the admittance of the state to the union, is completed at a cost of \$2,000,000, and is destined to occupy a place of prominence among the most notable public structures of the nation.

Alcohol Found Good Motor Fuel

French Chemists Experimenting to Find Cheap Substitute for Gasoline.

Paris.-French chemists are carrying out a number of interesting experiments with a view of substituting the use of alcohol made from sugar beets, grapes and other by-products of French industries for imported gas-Various interests in France have

long attempted to render their country independent of the United States, Great Britain and Holland in the supplying of fuel for motors. This independence is considered so pressing that suggestions are made that a stateproduced gasoline substitute may be made and its use in automobiles be made compulsory. It is proposed to call the accepted fuel the "carburant national." The propaganda in favor of this national fuel has compelled the government and numerous scientific bodies to carry out many extensive and expensive experiments. The results of these tests were recently summarized in a valuable technical monegraph prepared for the Association des Chemistes de Sucrerle et de Distillerie de France by M. Masfaraud, who showed that these results were ob-

Efficiency Is Increased. Alcohol motors are about 25 per cent

more efficient than petrol motors. The combustion of alcohol gas is

quite inodorous.

The general use of alcohol for fuel in motors is perfectly feasible and is to be strongly recommended.

in placing on the market motors built timber felled in clearing agricultural to operate with alcohol.

The necessity for the adoption of alcohol as a source of power was clearly demonstrated in France during the war. But there was such a demand localities. Distilleries using wood for alcohol for the manufacture of munitions that means had to be devised | compete with those using farm prodto conserve the supplies of alcohol in ucts. Farmers have it in their power France and ration them.

An official commission was appointed in February, 1922, by the ministry of finance to fix the price of alcohol derived from the current beet crop. It recommended the enforced use of alcohol as fuel, or as an adulterant of gasoline, as an expedient for providing a regular market for the byproducts of the agricultural industries.

Beziers, in the department of Hierault, was the scene last summer of extensive tests of automobile fuels made from mixtures of alcohol, gasoline and other substances. The results of these tests attracted considerable attention, not only in France, i but throughout the world. Many mixtures proved valuable. The most effective results were obtained from a mixture suggested by M. Godchot, dean of the department of science of the University of Montpelier, which consisted of about 90 per cent gaso-Hne, 9 per cent alcohol and small quantities of cyclohexanol and phenol. The committee in charge of the Beziers fuel tests was so impressed with the results obtained that it advocated legislation to compel the substitution of the Godchot mixture in place of gasoline for all purposes in France.

Notwithstanding the strong advocacy of a national fuel for France, the government has not yet taker a pronounced stand on this question because of the numerous economic problems involved. It would like to make France independent of imported fuels. cheapen the cost of automobile fuel and develop steady markets for the byproducts of factories producing sugar, fruit, grape pulp, ciders and sherry, starch, wine, beer, brandy and similar articles. But difficulties arise from the fact that the price of alhohol is usually higher than that of gasoline and therefore the manufacture of the Godchot fuel would be ex-

National Project Urged.

lems it is proposed to establish a national alcohol office to control a monopoly of alcohol in France and to control the monopoly of manufacture of the "carburant national." In order that the alcohol fuel might be sold below the price of gasoline the excess cost would be offset by taxes on wines,

ciders and other alcoholic beverages. The French experiments instigated a series of similar tests in England. The Empire Motor Fuels committee had tests made with pure alcohol over the complete available range of mixture strength, with open throttle at piston speeds ranging from 800 to 2,000 per minute, and at compression ratios between 3.8 to 1 and 7 to 1. The results were very favorable to the use of

The Germans have not neglected exa pure state or mixed with petrol as | monia. an automobile fuel. It is found that cheaply grown, they may in the fu- guestion favorably and in the near fuworld's fuel supply.

Relief Offered by Corn.

which are favored with large corn, ether, benzol and pyridine, alcohol growing areas, maize migh, be used instead of potatoes. It is easy to raise, and petrol have given satisfactory reperfect and the escaping gases are transport and store, and presents no suits. difficulties in its conversion into al-

Wood waste has been made to yield large quantities of alcohol. There are No difficulties would be experienced possibilities of using sawdust and the lands, as well as used lumber, for oil fuel. But practical difficulties will precent the use of wood as a source of alcohol in all but a few favored as a source of alcohol could rarely to produce a large number of crops suited to the manufacture of alcohol. The farmers of the United States alone could raise enough maize, potatoes, beets, and other crops to enable the world's motorists to substitute pure alcohol for petrol in all oil motors.

The Cubans make motor alcohol from the lowest grades of molasses and from bagasse, or spent cane fiber. Industrial alcohol has been made from five cents per gallon.

petrol or kerosene. The results have year.

Builds Scaffold for Sister and Himself

Despondency over ill health caused the double suicide at Louisville, Ky., a few days ago, of George Schneider, fifty years old, and his sister, Anna.

Schneider built a scaffold in a room of their home, and when his sister had hanged herself upon it, he ended his own life in the same way.

been satisfactory. Naturally, when a new fuel is used in a petrol motor without proper adjustments being made for it, smooth running cannot be expected. But when intelligence is employed in substituting alcohol for petrol in motors there are few grounds for complaint.

Tests in South Africa.

M. Masfaraud, in his address to the French Chemical association, drew attention to the experiments carried out in South Africa during the war and subsequently with alcohol-ether admixperimenting with alcohol as a motor ture fuels. Great success appears to fuel. There is an annual production bave been met with in using a mixof about 100,000,000 gallons of alcoho! ture called natalite, which is comfrom potatoes in Germany, and some posed of about 54 per cent of alcohol, of this has long been used either in | 45 per cent of ether and a little am-

M. Lindet, a prominent French inton of potatoes, carrying about 16 dustrial chemist, has suggested the per cent of starch, which promotes the use of a motor fuel composed of an fermentation, will yield 25 gallons of admixture of alcohol and acetylene. alcohol. As potato crops can be Many authorities look upon the sugtures on an extensive scale.

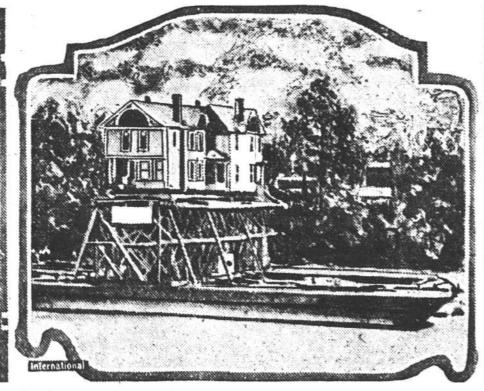
Among other mixtures tried in In countries like the United States. France those composed of alcohol. toluene and xylene and alcohol, benzol

It seems probable, from a survey of the present state of the motor fuel problem in France, that it is only a question of time when alcohol produced from French agricultural products will be substituted for imported gasoline. This substitution will not be made directly, but by degrees. Mixtures of alcohol, petrol and other substances will be used and later, when the price of alcohol can be greatly reduced, it will replace the petrol mix-

The problem which at present confronts French chemists is how to produce a national fuel cheaply, and they realize, as one has cleverly remarked, that they must study the matter not only with present conditions in view. but with an eye to the future, or, as M. Masfaraud says: "Dans un avenir

Judge Bans "Cheek" Dancing. Long Beach, Cal.-In what he announced from the bench as a deterthese substances at a cost as low as mined effort to abolish cheek-to-cheek dancing in local places of amusement. Throughout Central and South Amer- Police Judge M. G. Hawkins ordered ica alcohol has been used as a fuel, an offending couple to abstain from either in a pure state or admixed with fox-trotting in Long Beach for one

Moved the Houses Across the River



The houses which stood on the ground recently secured for the site of the new West Virginia state capitol in Wheeling have been removed to a new location across the Kanawha river. The photograph shows one of the houses being To overcome these economic prob- taken on a barge across the river.

DETOUR MAPS ARE

TOURISTS ADVISED OF ROAD CON-DITIONS AND GIVES CHOICE OF ROADS.

his is New Service of State Highway Commission Which Became Effective With July Detours.

Raleigh. The state highway commission, for the convenience of motorists, has placed in the hotel lobbies of the state,

is to indicate to a traveler going from favorable. The boli weevil and adtown to town where he will have to verse weather conditions must be detour. A man at Greensboro travel- reckoned with before early frost gets ing to Raleigh, for example, would its share. These figures are based only have to glance at the map in on conditions now and do not in-Greensboro and see if any detours are clude any but favorable influences to marked up on the Greensboro-Raleigh follow. The last crop made 350 road. He would then be in a position pounds per acre and 851,000 bales. to choose his road so as to avoid demenced the trip.

now in progress, many, many roads age. are being replaced temporarily by de-

The detour reports of the commission which are issued monthly may be found in all public libraries of the state and will supplement the map location of all detours is concerned.

system of the state, it is stated, have been furnished to such hotels as would agree to display them prominently in their lobbies. These maps Weevil Declared Not Poisonous. give the route number and are plainly marked so that a trip through the board of health from widely separat- On retiring gently rub spots de the roads at frequent intervals.

Expecting Great Farm Convention.

farmers and their wives will be pres- The boll weevil is not poisonous. ent at the Farmers' and Farm Wo- It does not infest fruits or berries, men's Convention at the State College nor any of the garden vegetables, on July 31 and August 1 and 2 accord- such as corn, beans, cabbage, lettuce, ing to reports that are now being re- okra, tomatoes, or the like. The ceived by James M. Gray, secretary only food that satisfies the appetite of the convention. Mr. Gray thinks of this insect is the cotton boll, and ture become important factors in the ture it is proposed to test such mix- that this is because of the good pro- it eats this preferably when young gram which has been arranged and lender, when the squares are because of the outstanding speakers just forming. which he has secured. The fact is, however, that North Carolina farmers the field of activity of this insect have become accustomed to attending which is having a revolution in the the convention and those who want to agricultural habits of the entire The college, as usual, is going to fur- another comes the report of having nish free lodging but the guests are found it in the okra. A far eastern expected to bring their toflet articles county attributed a serious illness to and bed linen.

New Bern Labor Office Closed.

Temporary discontinuance of the State Employment office at New Bern was announced by M. L. Shipman, director of the Employment Service. Withdrawal of the appropriation made by the American Red Cross imme-New Bern last December is given as the reason for abandoning the office. Assistance from the county or city will ensure its reopening.

New Bern is omitted from the list of offices reporting placements during the week, and the aggregate totals announced are appreciably smaller than the placement sfor the precedwomen applied for work, 575 employuring the week, according to the re-

More than half the number placed during the week were classed as unskilled labor, the figures being given at 311. The demand for unskilled labor is still great, but the number available during the week is taken as an indication that the exodus of negro laborers to the north has been checked, and that more of them are seeking work at home.

Prohibition Director Makes Report. Salisbury.-North Carolina mooureport of activities of federal prohibi- Blalock announced. tion agents in the state, issued by These checks represent the fourth headquarters here.

June was smaller than April or May. bales of cotton.

Cotton Crop is Most Promising.

"The cotton crop of North Carolina is unusually promising considering the planting seasons and is the largest in its history," according to a statement issued here by Frank Parker, statistician of the co-operative reporting service of the United States and North Carolina departments of agriculture. The report is based on information recived from 26 counties of the state.

"With the acreage at 103 per cent," says the report, "North Carolina shows the least increase of any state. The average for the cotton belt is 12 per cent increase. It is reported that the increase would have been more had the April report not been given publicity. That report showed the same acreage per cent according to the planting intentions of several thousand cotton farmers. It is further recognized that it was the speculator who suffered most by that intentions' report, which indicated prospective planting.

"The present condition of 80 per large maps of the detours in effect cent of a normal or full crop prosduring each month. This is a new pect for 256 pounds per acre, if apservice of the commission which be plied to the 1,703,460 acres, means came effective with the July detours. that the crop might be over 910,000 The purpose of the maps, it is said, bales if the state conditions remain

"There are estimated to have been touring or, if two roads were not planted in the United States the available, he would at least be advis- greatest acreage of any year, 38.287. ed of road conditions before he com- 000 acres with a prospective yield of 11.412,000 bales or 17 per cent in-This service, it is believed, will be crease over the 1922 production. The of great assistance to motorists pass- present condition prospects are 1.3 ing through the state as, because of per cent below last year's report and the great amount of road construction six per cent below the 10 year aver- Kilmer's Swamp-Root a payern

"The weather conditions in North Carolina have been unusually favorable for cotton during June. The recent rains have helped to relieve the drought that might soon have become serious, even on cotton. The so far as giving the exact mileage and | boll weevil has not become noticeably bad but its presence and activi-Large maps of the entire highway ties are now claiming the attention of the southren cotton counties of the satte.

Inquiries received by the state

state may be made by route numbers ed sections of the state indicate a fear druff and itching with Cutton taken from the map, aided by the of the boll weevil that is entirely un- ment. Next morning shampon route number signs which are along founded. The state board of health Cuticura Soap and hot water is advised that this pest of the cotton them your everyday tollet pre plant is without danger other than and have a clear skin and se the damage which it does to one of A good crowd of representative the state's leading farm products.

Popular superstition has enlarged swap experiences with their neigh- south. In some sections the weevil bors are almost sure to come again. is reported in the blackberries. From the weevil having been cooked along with some sanp beans. A Piedmont county thought it was infesting the cabbage. In all instances a consuming fear seems to have taken possession of some of the people lest the boll weevil take their lives.

In answering such inquiries the state board of health has endeavordiately after the disastrous fire in ed to reassure those unduly fearful with the definite statement that there is nothing to fear from the boll weevil except the partial destruction of the cotton crop. The insect is not poisonous and infests only the cotton

N. C. Leading in Building.

For the first time since March, 1922, ing week. A total of 618 men and the number of permits issued for new work in twenty-four of the leading ers asked for help, and 398 men and cities of the Fifth district was lower 81 women were found employment in May than the number issued during the corresponding month of the previous year, but several North Carolina cities were among those figuring in increases of newwork, according to a study of the Monthly Review of the Richmond Federal Reserve Bank just made public here. May, 1922, permits totaled 2,272 in

comparison with 2,475 issued in May, 1922. In the estimated cost of the work also, May of this year dropped below May of last year ,the totals being \$11.443,583 and \$12,548,712 re-Skilled labor maintains its second spectively, it is stated. The combinplace in the line, and domestic help ed valuation for both new work and third, and clerical and professional a alterations or repairs totaled \$13,461,bad fourth. Not an office in the state 852 in May, 1923, in comparison with has a skilled or unskilled laborer list- \$14,451,569 in May, 1922, a decrease ed for more than 24 hours at the during the current month of 6.8 per cent, according to the Review.

Mail Checks to Growers.

Checks aggregating more than two shiners lost exactly 111 illicit distiller- million dollars went out to the thirtyies; 1,234 gallons of rum; 67,925 gal- odd thousand members of the North lons of malt liquor; 17 automobiles Carolina Cotton Growers' Cooperative and property valued at \$30,000 during Association, one day from the Raleigh the month of June, according to the headquarters. General Manager U. B.

State Director R. D. Coltrane, who distribution made to members, bringing the total advances up to 22 cents Sixty arrests were made and 133 a pound, basis middling, and making prosecutions recommended. The mix- a grand total of fifteen million dollars ture of liquor and property during that has been paid out on the 135,000

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teeth he was I couldn't Roswell, Ga. giving him ting and h

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