

Bellefonte, Pa., October 17, 1930.

#### IMPURE RADIUM ONLY LUMINOUS TYPE.

Only impure radium is luminous, according to a report made by Paul M. Tyler, chief engineer of the rare metals and non-metals division of the Bureau of Mines, Department of Commerce. The fact that a faint glow often comes from tubes of radium salts is explained by the faint glow that sometimes is exhib-ties, Mr. Tyler said.

"Radium alone is not luminous," Mr. Tyler's statement reads. "The faint glow that sometimes is exhibited by tubes of radium salts is owing to impurities. By mixing radioactive material with zinc sulphide, a paint that will glow in the dark may be produced.

According to one authority, it was a shoemaker of Bologna who noted, more than 300 years ago, that heavy spar heated in charcoal possessed the property of glowing in the dark after it had been exposed to light. Other phosphorescent powders, mostly blends of zinc sulphide and alkali sulphide, were discovered subsequently, and were used for producing temporary stage effects, for example, long before the discovery of radium made it possible to maintain the phosphorescent glow for an indefinite period."

Mr. Tyler said that the ingredients and formulas for producing luminous plants change from time to time. In the United States, he said, paint used on watch dials has consisted mainly of crystalline zinc sulphide mixed with various proportions of radium, mesothorium and radioth-orium to obtain the greatest degree of luminosity. At first zinc sulphide was made luminous by radium alone, but later cheaper methods were found by using meso-

thorium and radiothorium. "As reported by Dr. Martland, the paint used by girls in a New Jersey factory contained chiefly zinc sulphide, rendered luminous by activation with about 20 to 30 per cent radium and from 70 to 80 per cent mesothorium containing radiothorium. He quotes other authorities to the effect that these paints may contain all the way from 7 to 3 and even 4 millograms of radium element to 100 grams of zinc sulphide. Impurities may be added to the zinc sulphide as follows: Cadmium, .05 per cent; copper, .001 per cent; manganese, .0002 per cent."

## CATCHNG INSECTS WITH TRAPS flocks of pullets.

of the New York state agricultural duction records and from a sire which sible to uncover them, these experiment station. Though the also is from a high producing cow. fenders will examine no vehicles in basic is old, no definitely quantitative work has ever been done to see just how helpful this mode of attracting insects can be to harassed specialists. fruit growers.

The work, which was started in Empire State Gas & Electric Co., showed a catch of close to 50,000 during the first season for the traps set in orchards, a goodly proportion closely upon the heels of low cost production. forms of destructive pests. More codling moths were found in the traps set in cold storage plants where fruit had been stored than out in the orchards, an interesting point that shows the liabilities as well as advantages of modern facilities in fruit distribution.

The most striking results were obtained with traps placed in dairies and designed to kill house and stable flies by contact with electrical

days, one trap destroyed approxireduce the amount of labor required
mately 100,000 flies," said Dr. Parto maintain the cluster temperature.

Get plans and instructions for buildtions of weather a day's catch ing and use of the cases from your would sometimes exceed 2,500 spec- county agent. Future studies directed to determining the efficiency and cost of operation of the contrivances un later, lettuce, spinach, endive, and der conditions different from those celery, in the order named, will that obtained in the experiments furnish greens and salads for the described are worth serious con- family diet.

In general the strongest bulbs atsome preferred frosted bulbs. Where colored bulbs were used, light yellow, light blue-green and daylight shades seemed to be most favored.

#### FOUR SCHOLARSHIPS

different plants to work in almost every year when he was a young man. He wanted to learn all that an art affording scope for the most scientific and artistic skill. when still a young fellow, he rose to be general manager of the most famous carriage building concern in the

That party explains why the Fisher Body Corporation, now a devision of General Motors, has organized the Fisher Body Craftsman's Guild and is offering four University scholar-ships of \$5,000 each and more than 900 other awards totaling fully \$50-000 to the boys who build the best miniature of a Napoleonic coach. Any one of General Motors' car dealers can supply boys and youths

with particulars. The aim is to foster "that spirit of fine workmanship which permeated the craft guilds of bygone centuries." The Fisher brothers believe that boys taking part who will soon be entering their life work, soon will be "better equipped through training received as Guild members to achieve greater heights."

Anything calculated to induce youths to fit themselves to succeed in the world is to be apare happy workers.

#### FARM NOTES.

-Fallen leaves should be raked and piled for use as a mulch, pro-tection for perennial beds, or for manure for next year's garden.

—One cow often eats the profits made by another. Feed each cow according to her production. A high producing cow needs much more grain than a low producer.

-If green feed is not available for the chickens, germinated oats will give satisfactory results, say State College poultry specialists.

-Members of Pennsylvania cooperatives will meet at State College, November 20, 21, and 22, for their fifth annual conference.

-Spring flowering bulbs may be planted now. Bulbs planted clumps of five are far more attractive than those planted in single

It is estimated that the American farmer is at least four times as efficient as any other farmer in Increased efficiency the world. brings greater volume and, unfortunately, sometimes unwieldy surpluses of some commodities result,

Bees which do not have sufficient stores of good quality for the winter should be fed sugar syr. up before cold weather comes.

A foal makes more than half RIGID TESTS WILL of its entire growth during the first If stunted during this time, year. If stunted during this time, the colt will never fully recover. Proper feed and care are important.

ter, as the grease stays where it is

were responsible for damaging the or truck is returned to us as being grape crop of J. E. Angle, although mechanically beyond redemption,

Honey bees took to Angle's arbors says Commissioner Benjamin G. an indirect manner.

the flowers.

pared, should give a greater amount during the long winter months.

Tipping the beaks of pullets is list often the only remedy for bad outbreaks of cannibalism in confined

factory. Profitable agriculture deeconomical distribution must follow

tuberoses should be lifted after the first heavy frost. They should be "All motor cars must be inspectcleaned and stored in a clean cellar.

The birds selected for breeders need a rest during October, November and December. Give them free

range if possible.

-Packing cases protect the bees "Operating for a period of 60 in hives from the winter cold and

-From now until Christmas or

Recent discussions as to the tracted the most insects, though relative merits of New York apples and those from the West may go on indefinitely, for the choice of the prize apple depends on the judge's But on one point all appalate. ple-eaters are agreed. The results of a world-wide census, made known fications. FOR AMBITIOUS BOYS. at the recent International Horti-FOR AMBITIOUS BUYS. cultural Congress in London, show Fred Fisher, head of the famous that a Red Apple is the general Detroit family, perfected himself as preference. Regardless of flavor, a builder of carriages by selecting texture or food value, a red apple will sell better anywhere on earth than a yellow, green or brown one.

Perhaps this is due to the attraction to bright colors. Or it may it was not a commonplace trade but be that literary allusions have made Oregon, Wisconsin and Wyoming. us regard good apples as always Yet gold apples abound in fiction as far back as the Hesperides. And it might be supposed that such goodly apples as the Grimes Golden or the Yellow Bellflower might have inherited some of their glamour. But they, along with greenings and russets, cannot compete with even person.

a mediocre red apple. Apple-eaters are generally agreed line to the matter of residential that the best flavor is a subtle qualifications. blend of sweetness and tartness. As to the best kind of flesh for an lations in the matter of obtaining apple, tastes differ, some preferring a marriage license, it is mildly a firm, crisp type and others demanding just the opposite, a soft, tradictions in regard to divorce. As melting, mellow flesh, even though

the flavor is inferior. If there be any to rise up and refute these findings he will doubtless come from the ranks of the cooks. There are large and luscious looking red apples which no amount of cooking can reduce to the consistency of smooth apple sauce. There are some green ones that need only to be heated thoroughly to melt It would be safe to deliciously. bet "one little red apple," that cooks plauded. Only compentent workers prefer good "cookers," regardless of

#### MILE-A-MINUTE MARTY



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CHEVROLET

DECKER Phone 405..... BELLEFONTE, PA.

## MARK AUTO INSPECTION.

Under the law Pennsylvania's bureau of motor vehicles may not burn Grease is better than oil for and trucks found to be unfit for protecting plowshares from rust operation, as is being done in New when they are stored for the winvoke or refuse registration for such

"If during the inspection period The heat waves this summer which began September 15 any car we shall revoke its registration,

when the dry weather interfered Eynon. "In my travels recently I with their regular food supply from have seen cars which I believe will have a difficult time procuring O. K. Angle, however, saved some of the stickers. The numbers of such cars have been recorded and when the inspection period ends this bureau's Potted roses, planted now in inspectors will check the inspection a bed which has been well pre- ticket and the car's condition. If it is found that the machine has of bloom next spring. Water well been 'eased by' by lenient after planting and protect them mechanics registration will be relenient voked and the mechanic or repair shop placed on the bureau's black-

"During the inspection periods of the last two years advantage was taken of the Commonwealth by money-hungry repairmen who used -Do not waste time and money approved stickers merely to drum light traps are being undertaken on in raising heifer calves unless they up trade in gasoline, tires or accessal large scale by Dr. P. J. Parrott, are from cows with high milk prosonies. So far as it has been pos-

Pennsylvania's motor vehicle inspection period began Se and continues to midnight of October 31. Applications from me--Cost of production is just as chanics and repair shops are now be-1927 with the co-operation of the important on the farm as in the ing filed. Against these applications are being checked complaints mands, however, that effecient and lodged by citizens who charge mechanical gyppery or incompetence on the part of repairmen. If Commissioner Eynon can prevent, no station will be authorized to in--Gladioli, dahlias, cannas, and spect vehicles unless its mechanics

"All motor cars must be inspected," said Commissioner Eynoon, "but shall see to it that incapables are not on our list of examiners.

## OUR MARRYING MUDDLE

There are more ways of getting married in America than in any other country on earth. In fact, there are forty-eight been busy.
ways, and if Texas ever exercises

its right to subdivide into smaller States there may be just that many more.

So many States, so many marriage laws and methods of getting four months at a time.

About the only way in which they resemble is that in almost all it is easier to get a marriage license than a driving license, though a little more difficult than to get a fishing

permit or a dog license. According to a survey conducted or the Russell Sage Foundation, only two States-Florida and New Mexico- have no statutory disquali-

Feeble-mindedness is the most common bar in the other forty-six States, but insanity is not a specified disqualification in Alabama, Arizona, Arkansas, Colorado, Con-

necticut and Louisiana. Medical certificates are required of male candidates for matrimony in Alabama, Louisiana, North Dakota,

Personal application for a marriage license is not required in thirty-six States, and in five of these it is expressly provided that neither candidate need apply.

Five States call for personal applications by one of the parties, and seven require both to apply in And so on and so on down the

But whatever the comedy of varamusing as compared with the con-

#### each State unites, so does it separate in its own sweet way. U. S. FOURTH IN FORESTRY

Russia has the most extensive Next comes the British forests. Empire, third Brazil, and fourth, the United States, says the American Tree Association. These four countries together have within their borders nearly two-thirds of the forest land in the world. The remaining third is divided among more than 50 nations.

#### PRAYERS FOR RAIN FUTILE LEADING PREACHERS AGREE

Prayers for rain are futile, in the opinion of a majority of prominent American clergymen who took part in a symposium conducted by the magazine Christian Century

One fundamentalist leader, however, Dr. Mark Mathews, of Seattle, declared that God had answered prayers for rain in Biblical days and that he could do it again if he so

desired. Another answer on the positive side came from Dr. James M. Gray, president of the Moody Bible Insti-tute of Chicago. He upheld the possibility of divine intervention in me-teorological affairs by declaring that since God made the weather he also

could change it. Dr. Harry Emerson Fosdick, of New York, led the doubters. He scoffed at prayer as a means of

getting rain. "No imaginable connection exists between a man's inward, spiritual attitude and a rainstorm," said Dr. Fosdick. He pleaded for an abandonment of "crude, obsolete supernaturalism in this benighted and un-

civilized country." Dr. W. P. Lemon, of Minneapolis, called prayer for rain an attempt to involve God in "a co-operative scheme to maintain present American living standards." It is, he said, too much like asking God to send an earthquake to aid an excavation or a hurricane to complete a wrecking job.

PERSHING 70, STILL AT WORK General John J. Pershing is 70 years old and putting in the usual eight hours of work on projects in

which he is engaged. These projects are a symbol of the A. E. F. commander's disbelief that the biblical "three score years and ten" should be a signal for a man to retire, and he feels other people should continue to work as long as they are able and no matter what their age.

"I hold that any active man or if their\_owners will report bad work-manship or unskilled inspection we can find something useful to do," he said in reply to a query concerning retirement at 70. On Sept. 13, 1924, Pershing was

compelled to retire from the military service because of the Army regulation which asserts a military man is no longer useful after he is 64. But since then Pershing has

He has been directing the construction of war memorials on the principal battlefields of France, and this work has taken him overseas at least once a year for three or

Pershing has been similarly oc-cupied in the United States. He has been supervising the collection of funds for the National Cathedral in Washington.

And the General has been working on his book on his World War experiences.

Even in personal affairs Pershing is no less active at 70 than he was at 64. He walks a great deal. He also enjoys horseback riding and many of his evenings are spent at formal social affairs.

### TOM THUMB GOLF.

Miniature golf is not only a pop-ular sport; it has become the dress parade of the democracy. Players are dressing for it as society once dressed for the races and as it still does for the opening night

of a grand opera season. Fine feathers may not make fine players, but what does the score card matter if the sporting outfit shows to full advantage?

Decoration is older than dress and to strut is a human instinct. Men and women painted their bodies long before they thought of clothing them. Of late years they have been wearing less and less, but moralists need not be alarmed. What may not be preserved for

modesty will still be preserved for decoration. And the decorated human loves to be admired; loves to attract attention, and there is no better opportunity than the brightly lighed stage-like setting of the miniature golf

course. It is an all too-conservative estimate that gives \$125,000,000 as the total expenditure on the new sport. That is not the half of it. A far greater amount has been spent in dressing for the game.

That is good for business. sport takes young and old into the open. That is good for health.

## Have You Made a Will?

ome people regard the making of a Will as a solemn rite to be performed only at the last moment.

In fact, it is a mere business affair that should be attended to like any other business of importance.

And it is important—so necessary that if you have not made one, do it at once. It will save your heirs a lot of trouble; it will dispose of your estate as you wish; it will relieve your mind.

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