Rocket Tests Prove Successful

many Revive Public Interest

Those who scott at the rocket as a fantastic instrument, of no possible use except as a Fourth of July delight to the small boy, are undoubtedly due for a revision of their ideas in the very near future. Within the last few weeks cables have carried to America no less than four reports of rocket successes in Europe, notably in Germany.

The first of these recent reports gives scanty details about the experiment performed successfully by Johannes Winkler at the military field at Gross Kuehnau. He fired a rocket to a height of a thousand feet which returned to the ground, as planned, about 600 feet distant from its starting point.

The second successful rocket test was carried out near Berlin by Karl Poggensee. Herr Poggensee's experiment was, in one respect, more significant than that of Herr Winkler, for his rocket was equipped with scientific instruments to measure altitude and speed. It also held a camera and a parachute.

The third bit of encouragement for German Chemical Association, consists of penthrinit and nitroglycerine.

While this is not a direct contribuis, nevertheless, of value. Satisfactory progress in rocket design rests wholly upon the development of explosives.

Paul Heylandt, who worked with Max in their applications. They operate Vallier when he first used the com- only on alternating current at very bination of liquid air and gasoline. He high voltage. The rare gases in the has now announced a fourteen-pound tube are excited by the electric currocket motor, which is said to develop rent. Different gases or vapors give made researches at Northampton 200 horsepower. Max Vallier, it will different colors, which explains the be recalled, lost his life in one of his red, blue and other lights that we see. experiments.

development of the motor and has in- with a socket because of the high volcreased its power from about forty tages required. with this new invention.

tenflugplatz in Berlin. This rocket, sible. whose construction differs from the The German invention is a natural convential type, is described by Herr evolution of existing vapor lamps. It Willy Ley, vice-president of the Berein depends for its success largely on the fur Raumschissahrt, as resembling a use of an electropositive metal in the "flying proving stand" rather than the cathode. When electrically excited ordinary rocket.

on in Germany, Ettore Gattanco, an Italian engineer, has recently completed tests with a rocket-propelled plane at the Taliedo airport at Milan. Flights of thirty-four seconds, which covered a distance of a kilometer, have been attained. Cattaneo is now busy with plans to cross the English Channel in the same machine.

More Research Work With such activity in rocket research there can be little doubt that we are on the way to the development of a rocket motor that will at least be practical for meteorological work.

Unquestionably some of the experimenters pin their hopes too high. They may set for themselves goals which will never be realized. But there are, nevertheless, things which can be accomplished with a rocket motor that can be accomplished in no other way. It is safe to say that some of these things will be done in the present generation.

Luck-Plus!

When Irvin S. Cohb was 27, he came to New York. He then had a wife and sick child to suport. For two weeks he made daily visits to every newspaper in the big city, but there seemed to be no job in sight. His patience at an end, Cobb wrote a letter to the editors, assuring them in no uncertain terms that he was the world's best newspaper man. The letter ended as follows:

"This is positively your last chance. I have grown weary of studying the wallpaper design in your ante-room. A modest appreciation of my own worth forbids me doing business with your head office-boy any longer. Unless you grab me right away, I will go elsewhere and leave your paper flat on its back right here in the middle of a hard summer, and your whole life hereafter will be one vast surging regret. The line forms on the right; applications considered in the order in which they are received; triflers and professional flirts save stamps. Write, wire or call at the above address." Next day, Cobb had four jobs to · choose from .- Stoddard, "Luck, Your Silent Partner."

Thoroughness

Lord St. Leonard's once said to Sir Fowell Buxton, "I resolved when reading law to make everything acquired perfectly my own. Many of my competitors read as much in a day as I read in a week; but having fairly mastered it, what I read was as fresh at the end of twelve months as when I read it, while others had glided from recollection."

"Did you catch your husband, ziring?" "Yes, that's the very way I did catch him "

New Type Lamp Used in Europe

Recent Experiments in Ger-Powerful Device Using Ionized Gas Connects With Any Socket

> In Europe a new type of electric lamp'has made its appearance, which marks an important development in the art of illumination. It combines the advantages of the mercury-vapor are and of the neon tube and, unlike elther, can be connected directly with pressure, gives a light much like dayany socket. The inventors are Dr. H. J. Spaner, U. W. Doering and Dr. Edmund Germer.

> The mercury-vapor are lamp is one of the most efficient known; that is, light than the ordinary incandescent, converts more electric energy into tungsten-filament lamp. Unfortunate- electric lamp of equal candle-power, ly, it has marked disadvantages. In the first place, it has a ghastly, greenish-blue color, as any one can testify portant, the color is nearly that of daywho has ever seen it in a composing light. room or photographic studio.

be electrically excited to glow only using any kind of glas from the softest with direct current. If alternating cur- glass to quartz. Especially in-using rocket enthusiasts comes in the de rent is supplied, which is usually the "uviol" glass, so called because it velopment of a new explosive material case, expensive additional services transmits ultra-violet radiation, the by Dr. A. Stetbacher, of Zurich. This must be used. In addition, the diffi- new lamp is very like a little sun so explosive, which was submitted to the culty of starting the tube by shaking far as the color of its rays is concernit, together with the impossibility of using one device for both alternating in windowless offices and factories becurrent and direct current and the postion to the development of rockets, it sibility of moving the arc lamp during he operation, has limited its use.

Disadvantages of Neon Neon lamps seen in advertising The fourth bit of news concerns signs are also efficient, but restricted Moreover, like mercury arcs, these gas Herr Heylandt has gone on with the tubes cannot be connected directly

horsepower, with a weight of seven | What is wanted is a lamp which will pounds, to its present dimensions. have all the advantages of the mer-Herr Heylandt expects to visit this cury and neon lamps, which can be country within the next few months, made to glow with any color, even if the desired color is an approximation body on it. The measurements are thieves are more apt to go in "gangs" Another German, one Klaus Riedel, of daylight, and which can be screwed using liquid fuel, recently succeeded directly into any socket. Dr Spanner in sending a rocket to the height of is of the opinion that the filament one and a half kilometers at the Rake- lamp has been developed as far as pos-

this metal ejects large quantities of While this success has been going electrons from the atoms of the vapor

> WELLER BUSINES? COLLEGE CHAMPIONS OF THE WORLD Toronto: 986 Bloor Street West

Orangeville: Box 41 and better positions. Last five Canadian and World Contests won by this College. Day, Evening or Correspondence Courses. Write for illustrated booklet.

TO IMPROVE YOUR

Feeling indifferent to food? Out of sorts? Depressed? Stimulate your digestive tract with Dr. Carter's Little Liver Pills. All vegetable. Gentle but thorough. They'll get rid of body poisons that cause Indigestion, Gas, etc., and give you a new interest in food.

25c & 75c red packages Ask your druggist for **LARTER'S IU壁PILLS**

STOMACH



EXCESS acid is the common cause of indigestion. It results in pain and sourness about two hours after eating. The quick corrective is an alkali which neutralizes acid. The best corrective is Phillips' Milk of Magnesia. It has remained standard with physicians in the 50 years since its invention.

One spoonful of Phillips' Milk of Magnesia neutralizes instantly many times its volume in acid. Harmless, and tasteless, and yet its action is quick. You will never rely on crude methods, once you learn how quickly this method acts. Be sure to get the genuine.

The ideal dentifrice for clean teeth and healthy gums is Phillips' Dental Magnesia, a superior toothpaste that safeguards against acidmouth. (Made in Canada.)

or gas. Atoms thus deprived of electrons are called ions.

Lights of Many Colors The Spanish-Doering-Germer lamp can be made in the form of the usual long tube or in the form of a very short tube curved back on itself to produce a U-shaped bulb which can be screwed into any-household socketsomething not possible before. Moreover, in it mercury vapor can be mixed with any other desired metal vapor to produce light of almost any color. Thus a mixture of the vapors of mercury, zinc and sodium at high pressures, comparable with atmospheric

The new lamps glow almost immediately after the current is switched on. After about one minute the light intensity increases to the maximum value. There is no liquid in the lamp, nothing that resembles the old mercury lamp. Moreover, it is about three times as efficient as the best filament which means that, for the same amount of current, three times more light is obtained. What is most im-

One of the main features of the new Furthermore, the mercury vapor can lamp is to be seen in the possibility of ed: These new lamps can be installed cause they give daylight illumination with an amount of ultra-violet rays equal to that in sunshine on a mountain 6,000 feet high.

Foot Dimensions Being Sought in Great Britain

The British Boot, Shoe and Allied Trades Research Association has which mark the first step in a statistical survey of foot measurements, first of Britain and secondly, it is hoped, of foreign countries, according kimos of Labrador, printed in their gan: "Keep Kissable!" This will he is to be pitied. Journal of the American Association. Bible. "At Northampton 2,500 people of all foot was measured twice, once with graphic plates as that of X-rays. and once without the weight of the declared to have proved the value of than girls, who invariably work alone. the angles in the new methods of measuring the scaffolds of the feet. other towns, the association will have a complete statistical record of the boot and shoe measurements of Bri-

"The investigation on which the report is based is the outcome of the German inventor. invention by the research workers of machine, which reduces the present uncertain method of measurement to evening dress only. a simple formula easily understood by a person with an elementary knowl- among the London school children, 1 Small Brother -- "Sometimes, when edge of trigonometry and geometry. while girls are said to be more liable mother ain't there." The new machine is the necessary to bad eyesight than boys. complement of the machine tools used

made by the craftsman, who supple- 1609. mented his simple measurements by a

been overlooked. In civilized countries steps. some deformity of the foot due to the wearing of boots and sloes is practic. ally universal. Therefore measurements of races which do not wear these articles and of the few persons who have always worn boots properly made for them by a good craftsman should have been taken in order to arrive at the measurements of the normal foot."

Thunder Shower

Runs the path of rivulet and snail Through the dark wood, where each brown bole

There a green Drips magic. . . . nymph stole From the old sycamore's embraces,

And there a crooked satyr fled. . . Oh dim rain-shadowed places, Are your ancient gods not dead?

Now the rain Ceases; birds are whispering again; Sunlit, four silver swans go by And-sunlight, mocking necromancy, Upon a silver lake of sky. . . . Shows me a crooked branch and old; Makes my sweet nymph of fancy A honeysuckle, trailing gold.

-Bridget Lowry, in the London Observer.

DRAPERIES MADE NEW

"When we resumed housekeeping : month ago I found my draperies had become creased from packing. I hung them out on the line, hoping to remove the creases. Then I forgot them. The result was they became badly faded and sun-spotted.

"I was heartsick until the happy. thought struck me to dye them. I just dyed them a deeper green, and as I used Diamond Dyes they look gorgeous and new. I have never seen casier dyes to use than Diamond Dyes. They give the most beautiful colors- The world admires those who speak as other dyes do."

Mrs. J.F.T., Montreal. verance.-L. Pichot.

Old Custom Still Prevails



of London presented head boy of Christ's Hospital School;, Horseham, with a guinea.

Owl Laffs

A cigarette compan; has a new slo-

where they blindfold you, let you kiss

Neighbor-"Have you seen the new

play that I wrote about the man and

Mr. Perkins-"No, but I heard you

Bus Conductor-"One seat on top,

Lady-"You surely wouldn't separ-

Conductor (ringing . bell)-"Never

Suitor-'Do you ever peep through

The Golfer-"They're all afraid to

The Girl-"Oh, I don't know. It may

The woman in the flat above

Takes vocal-how we curse-

And every day in every way

with me to-night, Mr. Jones."

She's getting worse and worse.

Miss Rayner -"I ho s you'll dance

Mr. Jones-"Oh, rather! I hope you

It may have been an apple that

caused Adam's downfall, but these

days men fall mostly for peaches. A

nervous breakdown seems to be a lux-

ury in which only the rich indulge.

see where he is going for the dust in

his eyes. It takes a genuine genius

there da ... to tell the difference be-

tween a luxury and an absolute neces-

sity. It takes big men to do big

things; this holds especially true in

is. Perhaps every man at one time

man. The lucky ones are those who

do it early in life ar . get it over with.

We are quite sure if we did smoke we

would be courteous enough when in a

private home to at least ask if there

was any objection to smoking before

we would light up and try to stink

Inving Limes

Maintain Your Health

SCOTT'S

of Norwegian.

Cod Liver Oil

To Build Resistance

Easy to Digest

ISSUE No. 41-'31

the keyhole when I am sitting in the

again, lady, I did it once and I have

ate a mother from her daughter?"

wife who were quarreling?"

and your wife rchearsing it."

ma'am, and one inside."

cap is?"

be your face."

for pleasure!"

Here and There

The only book possessed by the Esto the London correspondent of the own language, has up to now been the probably lead to one of those tests

The light emitted by glow-worms six girls and then tell Mr. Ripley ages were measured," he says. "Each has just the same effects on photo- which one you liked best. Among juvenile criminals, the boy

Britain's wet and windy weather has had the effect of keeping the nation When the survey has been extended to healthy by cleaning gutters and drains and removing refuse.

Wallpaper that is fadeless, washable, and very lasting has been made from glass, according to the claim of a Silver-tinted grease paint is becom- regretted it ever since."

the association of a foot-measuring ing popular for adorning the rims of the eyes in Paris. The new fad is for Defects of hearing are increasing parlor with your sister?"

> Valuable property in Ireland is held play me. What do you think my handi-

in the mass production of boots and by the City of London. It includes lands and fishing rights which were "For centuries boots and shoes were granted to the City as long ago as

Traffic and other noises are said to mental picture of his customer's feet. deter the blind children of New York "In making the foot measurements from learning to walk, as they are one important point seems to have guided by the noise of their own foot-Warm weather clothing was the sub-

ject of a recent test, the average outfit of men weighing 8 lb. 6 oz., while that of women weighed only 2 lb. 10 | didn't think that I came here merely Great Britain and Japan are said to

be the greatest foreign investors in China, their total investments being about five times as much as those of the United States.

By dropping "dry ice" powder from aeroplanes on the upper side of clouds The man who is only a follower can't a Dutch professor has caused heavy rain to fall. The "dry ice" was powdered carbon dioxide.

"Rain" From a Cannon

"rain carnon;" used for watering public office; big men have a hard fields, was displayed at Hanover, Germany. It consists of a jet mounted makes a fool out of himself over a woon a cylindrical presqure tank. The upper portion of the tank is filled with air, which is compressed by the water until there is equillibrium. When this is attained a valve located in the nozzle opens an orifice. Owing to the sudden release, the air pressure ejects the water in a powerful jet and throws it a considerable distance and at the same time moves it around slightly.

This method is considered a great improvement on the old sprinkler and pipe-line methods. A small rain cannon, requiring only a pressure of two of three atmospheres, is finding a ready market.

Pigeon Travels 7,200 Miles Paris.-A homing pigeon released at Arras in Northeast France on Aug. 15 has been reported captured at Saigon, Indo-China, on Sept. 9, after traveling 7,200 miles from the start-

It is believed this is the longest pigeon flight ever recorded.

Virtue

when used either for tinting or dyeing to it of virtue elequently; but God -and never take the life out of cloth loves those only who know how to practice it with courage and perser-

we came to if we could not do without smoking for a few minutes.

everybody out of the house. We would

also jump into the first deep puddle

A magician said to his youthful helper: "Now, are you sure there is nothing in the silk hat?"

"Positively," replied the urchin, "the rabbit you put in before the shoe got

away."

Hammond-"Why are files like tele graph operators?" Mrs. Hammond-"Because they do and dash."

Evolution

Age six-father gives Willie roller Age twelve - father gives Willie bicycle.

Age eighteen-father gives Willie college education. Age twenty-three-father gives Willie diploma. Age twenty-four-Father gives Will-

ie job. Age twenty-four ye ; three daysfather gives Willie up.

The battleship was in port, and visitors were being shown around. The guide was exhibiting a bronze tablet set in the deck.

Guide-"Here is where our gallant captain fell." Old Lady-"No wonder. I nearly tripped over it myself."

Foreman-"Do you know that I began life as a barefoot boy." Fireman-"Well, I wasn't born with shoes on, either."

Diner-"Have you any wild duck?" Waiter-"No, sir; but we can take tame one and irritate it for you."

Josie-"A boy friend of mine has several cups for golf, tennis-also medals for rowing."

Carie-"Well, he must be quite an athlete." Josie-"No, he's a pawn broker."

When a man is too busy to be happy



When TEETHING makes HIM FUSSY

One of the most important things you can do to make a teething baby comfortable is to see that little bowels do their work of carrying off waste matter promptly and regularly. For this nothing is better than Castoria, a pure vegetable preparation specially made for babies and children. Castoria acts so gently you can give it to young infants to relieve colic. Yet it is always effective, for other children, too. Remember, Castoria contains - no. parsh drugs, no narcotics-is absojutely harmless. When your baby is fretful with teething or a food ipset, give a cleansing dose of Castoria. Be sure you get genuine Castoria with the name:

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Peace cannot be established on the point of a sword. It must be broadbased upon the will of the people.

Every noble| crown is, and on earth will forever be, a crown of theras.-Thomas Carlyle.







"Cramps almost Killed me"

WHAT a tragedy! Every month those awful pains. She suffered so ... nearly doubled up with cramps:

Why don't you try Lydia E. Pinkham's Vegetable Compound during these trying times?

Slip a box of the new tablets in your handbag ... keep them handy on your medicine shelf. Their tonic action makes you feel so much better, on days when you're "not well." Just ask for Lydia E. Pinkham's Tablets.

lia E. Pinkham

INED AFTER 10 HOURS SLEEP

After Lunch Would Sleep 3 Hours

NOW SHE-HAS "THAT KRUSCHEN FEELING" Everyone knows the meaning of the famous phrase : "That Kruschen feel-

ing." Well, here is a typical instance of the extreme reverse of that condition. This woman had a perpetual tired feeling. See how it affected her :-" I am 34 years old, and the mother of two small sons. So my life is a very busy one. Ever since I can remember, I have always suffered with a feeling of tiredness, and never felt ready to get up in the morning, even after 10 hours sound sleep. I have often felt so tired after lunch, that I have slept for 3 and 4 hours, having to do the work in the evening. I took Kruschen Salts for a fortnight-and lost the tired feeling completely. I feel fresh and wide awake, and I have never felt better in

my life."-Mrs. E. M. W. Millions of men and women all over the | Salts on the liver, kidneys and bowels world take Kruschen Salts daily-not | causes perfect and regular elimination. because they are really sick, mind you If you want joyous health and glorious -but because they know the little vigor-to sleep soundly and arise in daily dose of Kruschen keeps them the morning fit and refreshed-if you always fit and energetic, and also keeps | want to work hard and enjoy your the system free from poisonous matter | work-try taking Kruschen Salts every

climination. People who take Knischen Salts every are always free from constipation, Drug Stores at 45c, and 75c, per bottle.



coated - tongue - and They have no poisons in their system because the action of Kruschen

caused by irregular or insufficient day. Millions of people are enjoying their daily labours, thanks to the

"little daily dose" of Kruschen. morning don't have headaches, and Kruschen Salts is obtainable at all