

BEAVERTON ENTERPRISE

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Keep It Flying

Make Rubber to Last a Lifetime

New Product Is Unveiled; Tires to Outlast Trucks Foreseen.

NEW YORK.—The General Electric company recently indulged in predictions of these things to come: a garden hose that can be left in the garden, winter and summer, forever; a truck tire that will outlast the truck for which it is made; a golf ball that the late John D. Rockefeller Sr. could have played all his life and bequeathed to his grandchildren.

The material from which these things might be made was demonstrated to a press conference in the Engineers club by Dr. A. Lincoln Marshall, head of the chemical section of the General Electric Research laboratory at Schenectady, N. Y.

It is called a silicone rubber and the government released it from the secret list. All the present production, from "what might be called a large pilot plant" at Schenectady, is going into war production. Meanwhile, the company has not been behind hand in foreseeing postwar uses and future possible adaptations of the product.

Mechanical Problems. Largely unexplored since its discovery more than 40 years ago, the field of silicon chemistry was probed by General Electric in a search for the answers to two mechanical problems presented by the military.

Gaskets of natural or synthetic rubber for superchargers on the army's B-29 bombers became brittle after extended operations at 302 degrees Fahrenheit. Asbestos gaskets on 24-inch searchlights, coordinated with big guns of the navy, broke with the shock when the guns let go.

Silicone rubber, company officials said, eliminated those difficulties.

The compound, known chemically as dimethyl silicone, crosses, or mixes, inorganic and organic substances. Its molecular backbone is composed of alternate silicon and oxygen atoms similar to the quartz molecule, which gives it a high resistance to heat. Introduction of two methyl groups to each silicon atom results in a compound which also has plasticity and elasticity.

Stands Great Heat. Natural and other synthetic rubbers deteriorate rapidly at temperatures above 212 degrees Fahrenheit, the boiling point of water. Dr. Marshall reported that silicone rubber has been subjected to a temperature of 302 degrees for 75,000 hours "and appears to be as flexible as ever."

Sand and natural gas, the basic raw materials of silicone rubber, are plentiful and comparatively cheap. Dr. Marshall pointed out. His colleague, E. L. Feininger, manager of the resin and insulating materials division of General Electric, added that while the present cost of manufacture is perhaps ten times that of synthetic rubber, that figure can be greatly reduced through mass production in peacetime.

Paris Has No Perfume; It's Hard on Yanks Now

PARIS. — "No more perfume today."

With such signs frequently hung up in Schiaparelli's, Guerlain's and other famous perfumers—the Yank in Paris finds one of the few reasonably inexpensive pleasures that had been left him in this war-deprived city is also gone.

Not only that, when he can find perfume—which is about the only one of the "luxury" products remaining anywhere within reach of his \$72-a-month salary—he finds, to his utter dismay, that the price has suddenly gone up 50 per cent.

One of these Yanks who have been driven from gay night clubs to cheap cafes by champagne costing \$12 a bottle, and forbidden to eat in restaurants, Pvt. George Andrews of Waltham, Mass., commented: "This is the last straw."

While in Beaverton be sure to eat at the Greyhound Coffee Shop.

The Low Down From Hickory Grove

This idea where the Army is running the mail order and the farmer's supply stores for Mr. Avery in Chicago and other places, you know, it is maybe a better idea than it looks. It gives us kind of a preview on what we have coming when the Govt. gets around to taking over all kinds of other things.

Say, for example, if you live in Chicago and happen now to need maybe a nightshirt. You go down to Mr. Avery's store, salute the guard, and if you look like you really are not foolin' and do sure enough need a nightshirt—and you are carrying no concealed weapons—and you are not a republican, you get inside.

And every place you look you see soldiers versus nightshirts. Soldiers with 6 shooters. And you get fidgety—and instead of a size 15 you get an 18, and instead of a dove-grey like you had in mind, you get a yellow model with black spots which will make you look like the roving Arab on the coffee can, who strolls along sipping coffee from a cup. And you are glad to get it—and get out—you would take anything. Browsing days are over. FBI men and soldiers looking you over, don't boost your morale—you reckon you must be in Russia. And brothers and sisters, we are nearer than you think.

Yours with the low down,
JO SERRA

A well-dressed baby in 1945 will be wearing soakers—knit panties to wear over diapers—made from old pastel sweaters. To cut out soakers—following outline of another pair of panties—so waistband ribbing of the sweater becomes the waistband of the soakers. Machine stitch close to all cut edges immediately after cutting to prevent raveling. Sew up side and crotch seams. Then use some of and yarn raveled from the sweater, to pick up stitches around leg holes and knit on about half inch of ribbing for each leg. Crochet eyelet edge at top of waistband. Run twisted or crocheted cord or ribbon through eyelet and tie. Cord ends may be trimmed with pompons.

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Ship Reading Material

In answer to the demand for something to read aboard hospital ships, in Red Cross tents near the front and even in foxholes, the American Red Cross has sent 2,832,826 books and pamphlets overseas for the armed forces since July 1, 1943.

Nearly a million off-sale periodicals have gone overseas thru Red Cross channels since March, and 85,000 pocket-size books are being shipped to the South and Southwest Pacific alone.

ATOLL STORY

Kwajalein Atoll—Signs along the road to Tokyo still are springing up, reports Sgt. Bill Allen, a Marine Corps combat correspondent.

Latest marine addition is:

HOTEL ATOLL
No beer Atoll
No Women Atoll
Nuthin' Atoll.

A man is never so TALL as when he STOOPS to help a CHILD. Fight infantile paralysis.

For Victory at Home fight infantile paralysis. Join the March of Dimes January 14-31.

While shopping eat at the Greyhound at the Greyhound Coffee Shop.

Accident Precaution

In Milwaukee County, Wis., the police are teaching Red Cross first aid to eighth grade students in all rural schools. And Sheriff Joseph J. Shiner reports that among those who have had this training the accident rate, at home and around the schools, has shown a marked decrease.

All 53 motorcycle patrol officers of the County Sheriff's department are first aid instructors and during the past year 24 of them conducted 32 first aid courses in the schools.

No one knows where, or how hard, polio may strike in 1945. Be ready to meet the attack. Support the March of Dimes.

Participating in the annual March of Dimes appeal is assurance that no victim of infantile paralysis will go uncared for, regardless of age, race, creed or color.

America's contributions to the March of Dimes, January 14-31, make possible the relentless fight against infantile paralysis.

For Stove and Diesel Oil Call Harry Barnes. Phone Beaverton 3231.

A steel-sheathed Bible saved the life of Bombardier Lieut. Robert Turner. While raiding Germany his plane was badly hit—but the Bible, which he always carries in his left breast pocket, deflected a flak burst from his heart.

May Be Able to Regrow Limbs

Doctor Says Idea Belongs in Realm of Scientific Possibilities.

CHICAGO.—"Regrowth or regeneration of human limbs that have been amputated 'belongs to the realm of scientific possibilities' of the future," Dr. Oscar E. Schotte of Amherst college, declared in an address.

"Modern experimental embryology and the study of regeneration have both shown that there is no such thing as an organism which has reached a state of rest, as long as there is still life in it," said Dr. Schotte.

"Tissue culture experiments, for instance, have taught us the new consoling fact that our tissues have what it takes to live forever; that, in other words, they are potentially immortal," he pointed out.

"Many years of research will have to be spent until we reach a full understanding concerning the intimate mechanism of normal regeneration as it occurs in salamanders, for instance."

Hope For Future. Dr. Schotte said he is a member of a group of those men "who have an unswerving faith in the future of these investigations and who, for years, have always claimed that regeneration of limbs in mammals, and therefore in man, belongs to the realm of scientific possibilities."

The experience gained from loss of limb in wars and in accidents has given, from time immemorial, a tragic confirmation to the notion of the stability of the adult and of the irreversibility of development processes in general, according to Dr. Schotte.

Concerning the new, or common water salamander, he said:

"If we amputate the leg of a salamander which has essentially the same structures as are exhibited by our own arms and legs, we demand that adult tissues of an animal be made to multiply and to undergo a new series of processes very similar to the ones we know from embryology. Yet, this problem is successfully solved by the animal."

"This proves, does it not, that the cells of an adult organism are endowed with an unsuspected wealth of properties, the discovery and full

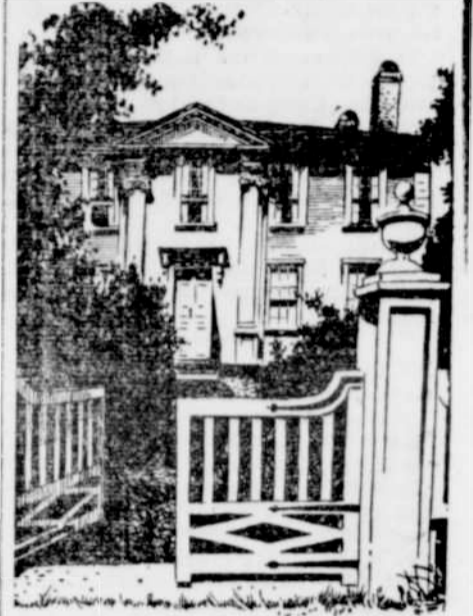
exploitation of which is still to be made?"

Tissues Regenerated. Dr. Schotte mentioned that lizards regenerate their tails but not their legs, birds regenerate their feathers, and mammals their hair, nails, hooves and claws.

Because we know from human experience that the loss of a leg, arm or a finger is irreparable, Dr. Schotte declared, it has been said that mammals, including man, do not possess the faculty to regenerate. But this is not correct, he asserted.

"We do regenerate our tissues and quite effectively so," he pointed out. "Wound healing is, in the scientific sense, a process of regeneration, and we all know how extensive the repair of parts of organs in muscles and particularly in bones can be. Still, while injured muscle regenerates a little, and while a fractured or cut bone must often be prevented by the surgeon from regenerating too well, we do not regenerate complex organs such as an arm."

Bonds Over America



PEPPERELL MANSION

Built by two English carpenters about 1760, the famous mansion at Kittery Point, Maine, stands as a monument to sturdy colonial New Englanders. Widow of a prosperous soldier-merchant, Lady Pepperell, refused to relinquish her title after the Revolutionary War. Those early Maine folk built homes as solid as their rock-bound coast and in their descendants persists a love of freedom and an ingenuity that is vital to Americans today fighting for victory, freedom and world peace. Shrewd, economical Down East folks buy War Bonds liberally as an insurance for the future as well as to back our men at war.

U. S. Treasury Department

Have you ever seen a manufacturing plant that turned snow into war power? Few have. Yet the Portland General Electric Company operates several such "factories" for war power, in addition to being the largest distributor of Bonneville Power. PGE was given the assignment to supply warpower to 67,000 war jobs and 20,000 war farms. Power must reach these vital destinations in an uninterrupted steady stream.

TUNED TO THE TEMPO OF WAR PRODUCTION

Breakdowns and failures must be cut to an irreducible minimum. If necessary, PGE linemen and engineers must work a 57,000 or 115,000 volt line "hotted up." How can it all be done? It just takes years of experience, devotion to duty, and the electrical "know-how." When you're "toying" with 115,000 volts of man-made lightning, there is no substitute for "know-how."

Portland General Electric Company

for 1/2 century, pioneering in electrical "know-how"

