#### Radiator Hose Department Aids In War Effort

(Continued from page 1)

plant, without undue difficulty. Now that every scrap of rubber is precious, and the demands for rubber used in equipment for the Armed Forces are mounting, it has become necessary to seek other qualities of reclaimed material for the manufacture of radiator hose. Today it is recognized and accepted by private and industrial motor operators as a valuable contribution to the war effort on the Home Front. Thousands of civilian cars and buses take thousands of war workers to their jobs daily. Ffeets of trucks transport tons of war equipment to and from plants dedicated to the war effort, and these vehicles must be supplied with radiator hose in order to operate.

In spite of the mounting difficulty of finding materials for its manufacture, the Radiator Hose Department at Dayton Rubber has continued to function full time since it was established two years ago. The men responsible for its survival and the operators in the department are to be congratulated for their tireless efforts and their refusal to be discouraged by gigantic handicaps. They are carrying on with the full conviction that every contribution is a milestone toward Victory

Work in the millroom of a rubber factory is typical of the millions of unromantic, behind the scenes, jobs that are being carried out by so many American workers today. The mixing mill operators, compounders, truckers extruding machine operators and calender men do not see the romance of complete and final production. They do not see the huge 33 foot pontons packed in their water proof carrying cases ready for overseas shipment or the finished V-Belts dressed in their attractive wrappers or the tunate pilot from the doom of a large truck-like equipment car-watery grave, as he listens to the riers to the river bank. Pontons Por the battle areas without first hav-ing passed through his hands. As big tube affoat even though some named. It's a 27-foot rubber cyl-

#### Dayton Rubber Pontons Aided Rhine Crossing



Crossing a wide river like the Rhine in Germany is no difficult problem for U. S. Army Engineers. With the aid of pontons, such as built by Dayton Rubber, vehicles can be rolling across in a very few hours. (Official Signal Corps Photo)

## Fighters Move To Front On Dayton-Made Pontons

As our fighters follow on the oxygen breathing tube, complete heels of the retreating enemy they dies" onto the floating pontons.

with fittings, just like it will be worth by a gallant fighter high in must get across the rivers fast. The steel helps give the bridge the blue over enemy territory. It Quickest method is by ponton rigidity and protects the rubber is hard for the millroom employee bridge. And it's the Army En- ponton underneath from enemy to visualize the massive floting gineers job to build those bridges, machine gun bullets. It takes river bridges, or a drifting life. The Engineers bring pontons, about three hours to build a 42raft that has snatched an unfor- steel saddles and treadways on ponton bridge over a 350-foot

Pontons are really two long 33constant grind of the mill line and are brought out of their heavy can- foot rubber tubes 33 inches in handles the hot masses of shape- vas coverings and valves are open- diameter and shaped with two less rubber from day to day. In ed to permit a mobile air compress curving, connecting ends which tip products of war would never reach | Pontons are protected by bull- weight of 18 tons. In the center surely as he knows these facts, sections have been bullet-pierced, inder 33 inches around with a ball let us too understand his posi-

tion and give him a pat on the the ponton is ready to float. Then Pontons made by war workers back for his all too often thank- the completed bridge sections are at Dayton Rubber have appeared less task in the battle on the pro- lined up and overlapping tread- on every battlefront according to ways builted together and a hydrau-frontline reports. Their produc-

## **Head Of Dayton Rubber** Pioneered Synthetic Rubber

role in the evaluation and developwhich today have many varied problems during the present war

Two weeks after Pearl Harbor, Technical Consultant.

Also serving as chairman and

of WPB, Synthetic Textiles Diviment of Neoprene, Butyl, Perbun- sion, Mr. Freedlander has helped an and other synthetic rubbers to solve many important textile

Mr. Freedlander is also president of the Copolymer Corp. of Mr. Freedlander was appointed to Baton Rouge, Louisiana. Copolythe WPB, where he served as mer is a government-owned syntechnical chief of the Rubber Sec- thetic rubber producing plant option, Industrial Specialist and erated jointly by Dayton Rubber and six other companies

After a trip to Europe in 1939.

### his own heart he knows that these sor to fill the products of war would never reach. Pontons carry a products of war would never reach. Pontons are products of war would never reach. Pontons carry a products of war would never reach. Pontons are producted by bull, weight of 19 tons. Of Synthetic Rubber

Just what is this Synthetic Rub-

Rubber is really a misnomer be- but cured rubber is deteriorated As the term is used, Synthetic cause no successful synthetics ex- by air actly duplicate the chemical structure of natural rubber, but merely duplicate as nearly as possible its characteristics. Therefore 2Sub-stitute Rubber," "Elastomer" or some such term would more nearly describe the material the government and rubber companies call Synthetic Rubber

The varieties and characteristies of the many Synthetic Rubers are almost endless. Research least three thousand synthetic rubbers of widely varying properties. Some have more stretch and more tensile strength than others and are suitable for tires and other items receiving hard usage. Others have little stretch and little strength and consequently are suitable only for such articles as glass jar rings, raincoats, baby pants, shoe soles, gaskets, etc. Some synthetics have qualities which far surpass those of natural rubber. while others are inferior but still satisfactory for many uses. For instance, tires made of high quality synthetic will far outrun those of natural rubber, and printing rollers made of synthetic are not affected by oil, benzine, and abra-

It would seem logical that all synthetics should have a common base with various methods of compounding being the only difference in texture However, such is not the case Basic constituents range from soy beans and morning glor-

ies to petroleum and alcohol. Mysteries abound in both synthetic and natural rubber. If you are scientifically inclined and like to delve into the bewildering processes and ingredients of rubber. then consider the following oddi-

It takes a torrid climate to grow rubber trees, yet heat 's destructive to your automobile tires! The sun that aids the growth of the rubber tree will also rot a rubber glove ! Soap and water do not penetrate rubber, yet rubber is

men has helped save the lives of many troops and many tons of equipment.

License Fees Municipal license fees charged for rigarette vending machines, juke boxes and mechanical amusement devices vary widely on the basis of a survey of ordinances of 38 cities. License fees charged by cities for operating of cigarette vending machines range all the way from \$2 a year in Atlantic City and Pasadena, and \$3 a year in Wichita, Kan., and Wilmington, Del., to sliding rates calling for much higher fees in Los Angeles and Birmingham.

reprocessed by them! A rother tree needs plenty of air to succee

Mr. Freedlander predicted the war his plans was the construction of ed in Waynesville and is plant designed especially for the an important red. Mr. Freedlander predicted the war and began planning the company's and began planning the company's argument of synthetic rubber armed forces with supply future in view of a possible cur-future in view of a possible cur-tailment of natural rubber. In products. The plant is now locat-plies.

# Congratulations Dayton Rubber Company

On Earning The

Army - Navy "E"



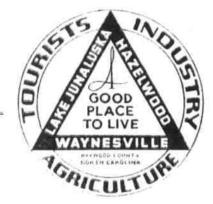
Final VICTORY has been brought just a little nearer because of your efforts. Credit for your fine production goes to manage ment and workers who kept the goods rolling. I like to class myself as one of your workers, because I help every way possible to speed production in your plant. I'm glad

that I had plenty of power available when you needed it most. and that despite war needs such as yours, I've been able to supply all my other customers with all the power they have needed, too

REDDY KILLOWATT Your Electric Servant

#### CAROLINA POWER & LIGHT COMPANY

Your Friendly Electric Service Company



## **Congratulations**

To The

Men and Women

of

## The Dayton Rubber Mig. Co.

On Your Army-Navy E Award A Fine Job - We Are Proud of You

**Chamber of Commerce** 



# We Wish You Continued Success

It has been a pleasure to haul your products and raw materials so vital in our fight against aggression, and which have brought the Army-Navy E Award for the first time to Haywood County. We congratulate you, employees of Dayton Rubber, upon this splendid achievement and wish you continued success.

## R. L. DANCE TRUCKING CO.

Asheville, N. C.