

By HOWARD W. BLAKESLEE
Associated Press Science Editor

NEW YORK, April 25. (AP) — Lovely, synthetic beads which some women will wear as necklaces after the war, also will be used to manufacture much of your postwar gasoline.

The beads are the size of medium pearls, translucent, nearly white. Costume jewelers have been asking for them, but getting none, because the beauties are the newest, and some claim the best way, of making warplane 100-octane gasoline.

The beads are catalysts, their composition secret, and called the most important single gasoline-making advance in a decade which was already notable for many petroleum miracles.

At present the entire production is planned to go to 30 new war fuel plants, most of them still under construction.

EXTREMELY HARD

These synthetics are extremely hard. They appear absolutely solid but actually they are perhaps the most completely porous things in the world, honeycombs of invisible corridors.

Lay one of these beads on a 25-cent piece on the floor, and another quarter on top of the bead. Then step on the pile. If you are an average-size woman, you will have to stamp.

When you do, the bead will break with a crack like a cap pistol. When you look under the top quarter, most of the bead will have vanished completely. There will be a few small fragments, the rest dissolved into dust.

This porosity is one of the secrets of the gasoline-making. The scope is almost incredible. An average room full of these beads, if spread flat forming an even sheet of every bit of surface in the pores, would cover all of New England and also New York State, Pennsylvania, New Jersey and Maryland.

MIRACLE OF CRACKING

If you could do that, the miracle of catalytic cracking would no longer be so mysterious. You would see the vapors from hot petroleum spread in a thin sheet over all this vast area. Momentarily the oil vapors would stick to the sheet—be adsorbed (not absorbed.) In that moment chemical changes would take place in the layer of oil vapor. Presently the vapors would rise, changed into a different chemical structure, but leaving the beads unaltered, ready for the next vapors.

These changed vapors would condense as gasoline, or if wanted, into some other form of motor fuel.

This is what happens in a cracking plant. The bead surface which would cover New England the middle Atlantic States is concentrated in a tall tower, or towers. The oil vapors enter at the top and flow downward through the pores of the beads. They stick to as much surface as they would in an imaginary outdoor spread, and do it more efficiently.

Production of Vitamin C will be about ten times greater in 1944 than in 1941, the Department of Agriculture estimates.

den street, Monterey, and Dora L. Thomas, 19, of the same address, were arrested yesterday for shoplifting in a Pacific Grove department store. They had in their possession a large cloth bag containing articles which they had assertedly stolen from four different stores in Pacific Grove and Monterey.

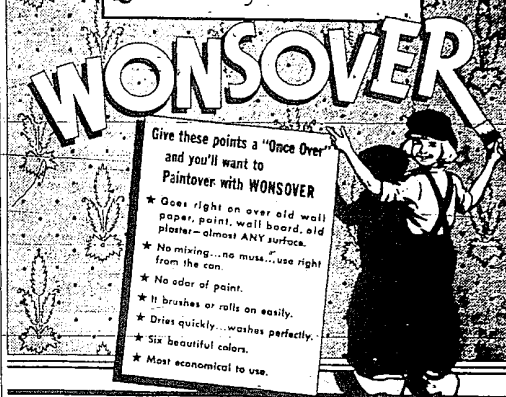
Both girls pleaded guilty and were fined \$50 each.

STOP
riding on smooth tires
LOOK
your tires over carefully
RECAP

PADRE
Tire & Radio
485 Lighthouse
Ph. 6011 New Monterey
RADIO REPAIRING

Make old, dingy Rooms look like New

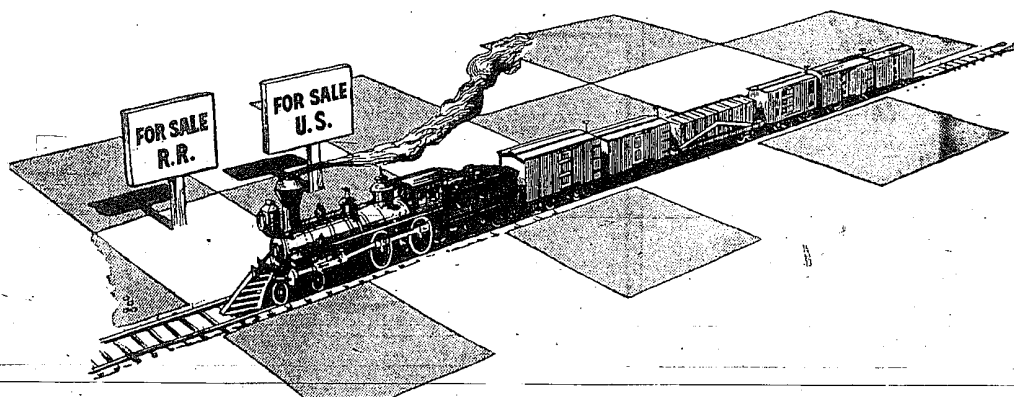
A single coat does it with
WONSOVER
Dutch Boy's one-coat oil paint
Quick... Easy... Economical



McPhillips Paint Store
5th and San Carlos Carmel Phone 818



as seen by Santa Fe



sc., covers two of machine gun fire rymen on enemy om Signal Corps)

race, judging, skin ot horse and rider. that group shared ith Troop 92 in the tenderfoot. Troop 46 ug-of-war and knot-class, while Troop 48 e water boiling con-

ce awards went to e chariot race, skin ot tying, tenderfoot, rider. Troop 90 was t tying, second class, oiling, Troop 92 was he tug-of-war and c second in judging. d 46 obtained enough lity in the proficient ill be duly recog- t accomplishment at Honor on May 15th. o looking forward to ee on May sixth and o the annual summer ill be held at Big lose of school.

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