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Battalion/Page 7 March 31, 1982

Maglev travels at 312 mph

Japanese build flying train

IYAZAKI, Japan — The o wait in se have this crazy idea trains should fly like airmorrow es, and their space-age enworking ers have built one that does inted 200 312 miles per hour. to keep

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o these captive plied to ls, Ber man e to tel ke said

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But now there's much headching at the Japan National ways over what to do with ir brainchild.

I.D. card The two maglevs - magnely levitated linear motor gradua elled trains - have success-Johnson completed two stages of dement at this southern test facility on the island 6 p.m. al yushu. Plans now call for the Agency ing and testing of three gineering icles later this year.

Studen The maglevs sail through the all, Harat a fixed height of about Center, inches above the magnearv. Shisa l roadbed, and would make Kleberg 311-mile run between

o and Osaka in about an

Our aim is to take people out gers between Tokyo and Japan's 10 years to put the maglevs into of airplanes and put them back major southern cities often fason trains," a JNR representative ter than planes said.

accelerates to a speed of

100 mph, the wheels re-

through the air, levi-

aboard the train.

'But the shinkansen are be-JNR did a pretty good transcoming too congested and too plant job a few years ago when they introduced the 130 mph

slow," the representative com-plained. "That's why we are developing the maglevs. To the pampered Japanese When the 10-ton vehicle train riders, the other attractive

features of the maglevs are that they are more quiet, more comfortable and consume less enertract and the train skims gy than the present rail system 80 percent of which is electrified. "The maglevs would only use about half the electricity needed

tated by the repulsion force of the two magto run the shinkansen at speeds nets — those on the of about 156 mph," the representative said. "But at speeds of road bed and those about 312 mph, twice the amount of energy would be needed. shinkansen (bullet trains) that this Kyushu testing facility esti- levs the magnetic energy pulls

ward. service on the major trunk routes. Eventually, they predict

unmanned maglev freight trains will run during the night, giving Japan the world's fastest freight service. Manned passenger trains will use the facilities during the day.

"Only two people are needed to operate maglevs," the repre-sentative said, "one at either end of the line. But people prefer humans at the controls of their trains and planes, so we would man the passenger-carrying maglevs.

The revolutionary concept of propelling vehicles through the air with magnets uses the same basic principles as the electric motor, except the magnetic energy in motors rotates a shaft The far-sighted engineers at in a circular motion. With magnow hustle thousands of passen- mate it will take another eight to and pushes the vehicles in a

straight line forward or back-

The maglevs begin their flight on wheels. When the 10ton vehicle accelerates to a speed of 100 mph, the wheels retract and the train skims through the air, levitated by the repulsion force of the two magnets those on the road bed and those aboard the train. Similar magnetized coils along the sides of the guideway always keep the vehicle on dead center.

The fate of the maglevs now passes from the physicists to the politicians. The physicists and engineers have proved the efficiency and practicality of the maglevs. But the construction costs are enormous.

'Although the costs of building a guideway are much higher than a shinkansen, the maintenance costs are much less," the INR representative argued.

Kidney windfall results in three rush transplants

United Press International DALLAS — The head of a team of surgeons who performed kidney transplants on three patients within a 24hour period says the rush job was necessitated by the sud-

den availability of the kidneys. The three patients, Charley Sides, Rickey Phillips and William Butler, were in fair condition over the weekend, a Methodist Hospital representative said.

The men were being kept alive on dialysis machines when the organs became available, lead surgeon Dr. Richard Dickerman said.

"It's really unusual that something like this hap-pened," he said. "Patients who

need a transplant will wait months or years for an organ to become available.

Dickerman and his team performed the three operations in succession. One kidney was flown in from Atlanta and the other two were donated by the family of a Texas man.

"To have three kidneys become available on the same day for three of my patients is something I'll remember a long time," Dickerman said. Kidneys usually are donated by living relatives with a matching tissue type willing to give up one of two healthy organs. Sometimes they come from deceased persons.



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