Tree makes diesel substitute

SAO PAULO, Brazil — Scientists have discovered a native tree that produces oil similar to diesel fuel and are studying hundreds of other plants they hope will provide inex-pensive forests of energy for the fu-

A species of the copaiba tree tested at the National Amazonian Research Institute in the jungle capital of Manaus produces up to 26 gallons of oil a year.

'It's a perfect substitute for diesel in engines. They can run without modifications," said Jose Guilherme Maia, coordinator of the copaiba project, which has been studying the tree for two years and running a

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Trees in the copaiba family grow up to a height of 60 feet and an aro-matic resin obtained from the tree was formerly used for medicinal pur-

Consumption is slightly higher than regular gasoline because copaiba burns cooler, but perform-ance is the same, Maia said. Scientists in Manaus and in the

industrial metropolis of Sao Paulo are studying more than 400 species of native trees they say can provide everything from diesel fuel to pet-rochemical feedstocks.

Brazil is larger than the continental United States but lacks oil as a

Toyota pickup with the fuel for 12 major resource, forcing it to import 85 percent of its petroleum consumption. The country's oil bill is expected to consume half its \$15 billion export income in 1979.

Last week, the government raised the price of gasoline from \$1.80 a gallon to \$2.80.

But, it has vast land areas which can be used to grow forests of energy at very low cost, researchers say.

"It won't happen in the next 10 years, but in the future Brazil will become one of the major exporters of biomass (energy)," predicted Ulf Schuchard, a German chemist at the University of Campinas outside Sao

Brazil already is using alcohol

ventional cars in a 20-80 percent mixture with gasoline and its 1 million vehicle a year auto industry will produce 250,000 cars running on pure alcohol in 1980.

In addition, oil from soybeans, peanuts, castor seeds and sunflowers is being used to run diesel engines by experts at Sao Paulo's Institute of Technological Research.

There may come a time when the world's growing population will force countries to choose between growing food and biomass energy, said Schuchard.

The chemist said his team is now working on making tree oil econo-

Shah thought to be worth \$17-21 billion

LONDON — A Middle East business magazine estimates the wealth of the exiled shah of Iran at \$17 billion to \$21 billion.

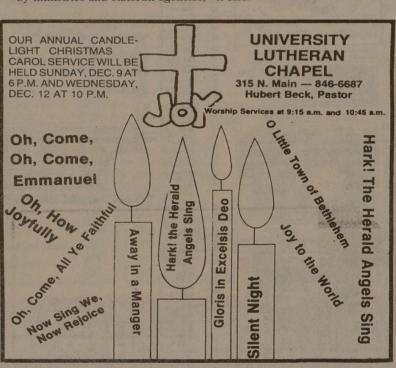
But the magazine, "8 Days," which is largely funded by the country of Dubai, said Shah Mohammed Reza Pahlavi was unable to take the fabulous crown jewels of Iran with him when he went into exile in January. It said the jewels were worth about \$130 million. The magazine article said a strike in support of Ayatollah Ruhollah

Khomeini had closed the bank where the jewels were kept. But the article, under the headline "How the Shah Plundered Iran," said even without the jewels the ousted monarch's wealth was im-

It quoted "Western economic analysts" as estimating the total over-seas assets of the Pahlavi family as "probably close to the ruling clergy's calculations of \$17 billion to \$21 billion."

Well-informed Iranians in exile estimate that \$700 million was extracted by the Pahlavis from the Bank Omran, "100 percent owned by the Pahlavi Foundation," the article said.

Central bank employees disclosed that during the last months of the shah's reign, the Pahlavi Foundation had \$65 million deposited in foreign bank accounts — "a kind of royal tithe paid three times a year by ministries and staterun agencies," it said.





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Territorial imperative

Two-year-old Keith Baker defies the world to step into his territory, the temporarily dry Rudder Fountain. The fountain has been

drained so loose tiles can be replaced. Ke aunt was involved in the art fair Wednes morning. Battalion photo by Clay Code

Party to meet to pick successor

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Irish prime minister to qu

United Press International
DUBLIN, Ireland — Prime
Minister Jack Lynch said Wednesday he will resign and asked his governing Fianna Fail Party to meet

soon to select a successor. Lynch's announcement came after months of speculation that he planned to step down and allow a new premier to lead his party into general

elections scheduled for 1982. Lynch, 62, told his party colleagues of his decision at a specially convened meeting to discuss the government's recent defeats in two

local elections, one in Lynch's own parliamentary district. The leading contenders for the premiership are Vice Premier George C. Colley, 54, and Health

both of whom contested the leader-ship when Lynch was selected in 1965.

Colley, an orthodox Fianna Fail minister, has backed Lynch's hardline policy agaist the Irish Republican Army and his selection would mean no change in government policy in that area.

Colley's opponent, Haughey, once called the "golden boy" of Irish politics, has had a turbulent, controversial career within the party. Lynch fired him as finance minister in 1970 over charges he was involved in a conspiracy to import arms for the Roman Catholic minority in Northern Ireland. Haughey was tried but acquitted.

In the 1970 purge of his Cabinet, Minister Charles E. Haughey, 53, Lynch also fired Agricultural Minis-

ter Nial Blaney and two juniors ters. A third, Kevin Boland igned in protest against the p

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Since then, Haughey, de as a brilliant economist, worked self back into favor with Lynd was reappointed to the Cabinet Lynch's record-breaking triu 1977 when he won the large ity in Ireland's political histo 20-seat majority over all of ties in the 148-seat Parliame

A veteran Irish politician on United marked that Lynch lacked a NEW YOU qualities for political success onth of trav

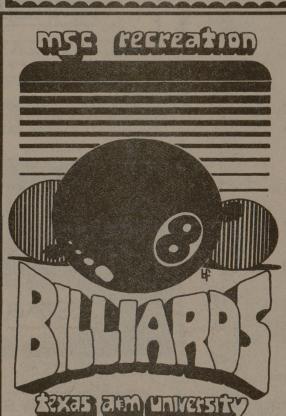
others unnecessary," the polit A new er added. He was referring to the back marke added. He was referring to make marke sonal charm and the nation lopes to c popularity of the relaxed premarket, som Another politician, common the 1980 on Lynch's rise to leadership gain 40 pc

the corridors of power.
"But there was never a

of him taking the wrong turn In the beginning of Lync

tical career he was the lat Eamon DeValera's ha choice as spokesman on ed and the Irish language, a comfortably near DeValer most cherished fields.

But the Gaelic-speakin avoided the pitfalls strewn within the program to rev a spoken tongue. By the ti Valera moved off the stage in make way for the businesslik matic rule of the late Premi F. Lemass, Lynch alreadyh



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