By PAT DAVIDSON

Mankind has progressed from ood to coal to oil and gas for ergy, and a Texas A&M Univer-ty student may have a hand in the

rent Rice, a senior nuclear engiring major, is looking into the erties of tritium barriers for fureactors. Tritium is a radioace isotope of hydrogen, an ele-nt found in profusion throughout world. The research project is t of the Undergraduate Fellows

Fusion refers to energy derived m the bonding of atoms. The fuprocess cannot yet be used betemperature of the fuel. Experiments have been conducted that sion process, but never in the pres-

three requirements. Rice is hoping that the three problems can be solved with the use

ton University, scientists attained a plasma at a sun-like temperature of about 70 million degrees, the atoms fuse and energy is 60 million degrees centigrade. released, Rice said. While meeting the temperature

U.S and Mexico energy amigos

WASHINGTON — Mexico's ambassador to the United States says though the two nations are "amigo (friendly) countries," two prob-ems hamper good relations: natural gas trade and what to do about

Ambassador Hugo Margain said Tuesday he hopes the two countries can work out energy agreements more successfully than in the past, particularly in view of Mexico's new-found oil and natural gas

Margain spoke at the luncheon meeting of the National Energy Resources Organization, an association of people interested in energy

His speech was significant because of Monday's announcement that Mexico's oil wealth may total in the hundreds of billions of barrels, ven more than Saudi Arabia's.

Margain said the gas problem will be solved by Mexico using its own gas, because of the failure of the two nations to come to an ement on financing and marketing. The problem of the workers needs a bilateral agreement, he said.

Mexico will use much of its new-found natural gas to generate ectricity, replacing oil that could be sold to other nations, he said. Mexico hopes to increase its oil production to 2.2 million barrels a all by by 1980, Margain said, and to 5 million barrels a day by 1983. The ambassador said Mexico enjoys friendly relations with the linited States, but he added, "It is very vulnerable for Mexico to have many one client. — a good friend, but only one client. It is good to have

Margain said the problem of illegal workers who cross from Mexico to the United States has both a "pull factor" and a "push factor. Mexico hopes that in five or 10 years, "there will be no more push

As for the "pull factor" of attractive wages in the United States, largain said he hopes the United States can eventually remove that s well: "You know, you have a need for them (Mexican workers) or nev would not be here



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cause of problems with three standard for the first time, the scienthings— density, containment and tists encountered problems of containing the tritium.

Rice is working on the project have attained the required density and containment of highly ionized gas (plasma) at the heart of the function and is attempting to solve that prob-

ence of the proper tremperature.

No single experiment has met all deuterium are the fuels used in fusion reactors. They are found in plasma, a completely ionized substance which can be compressed f tritium. with magnets. As it is compressed, In a recent experiment at Prince- the plasma heats. When it gets to a

During the fusion reaction, tritium is burned, so that more must be made or bred, Rice said.

Tritium is bred in the walls around the reactor called the blanket, Rice said.

He said when the plasma is heated, it gives the atoms energy to go through the walls of the reactor by diffusion.

'We want to keep the tritium inside the reactor," Rice said. He explained that tritium is very expensive, costing about \$2,000 per gram

"Since the blanket where you're breeding it is where most of the tritium is, that is where you want to contain it," Rice said. So he and Causey are developing an idea of breeding tritium in balls with lithium centers and pyrolytic carbon

He said the neutrons coming off the reactions would hit the balls and the lithium would absorb the neutrons and make tritium. The neutrons would go through the balls, but the tritium would not, Rice said.

"So you've got this ball where you've made the tritiuom coming Rice pointed out that if the tritium stays in the reactor, energy

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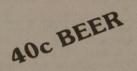
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money. If it gets out, you are not getting anything for your money, he

Tritium appears to be an expensive source of energy, Rice said, but

he added that energy costs are steadily increasing. He predicts it

will be at least 30 or 40 years before

a transition to fusion reactors oc-

curs. By that time, he said, it might

compete economically with other

He said that there is an unlimited

supply of tritium and deuterium,

whereas oil and gas are running out

and there is not a limitless supply of

uranium, the fuel for fission reac-

Rice said deuterium is found in high concentration in the ocean.

Rice, an Honors Program stu-

dent, said he got the idea for his re-

search from Causey. Rice said Texas

A&M just offers one course in fu-

"I didn't know any more about fusion than the next person when I started," Rice said. "But once I got into it, I could understand fusion

because of my background in nu-

Society and president of Sigma Nu Epsilon, nuclear engineering honor

'I really enjoy what I'm doing and think I'm doing pretty well," Rice, a member of the American Nuclear

sion, and that it is not required.

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