Rebuilding motors is profitable hobby Antique engines fascinate A&M student OPPORTUNITIES

By BRIAN BONNET

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Although there were times of deir, disappointment and bruised uckles, Don Frei never gave up on his hobby. The junior marketing major from Westphalia is infatuated with restoring old, single cylinder,

asoline powered engines. "I virtually fell in love," he said, hen he first saw a "one lunger deign" four years ago. Frei first ncountered a "one lunger design" t a neighbor's house. Having been raised on a farm

nd working on engines, naturally I ecame mechanically inclined. rei said In May of 1977, Frei and his

bother found an antique engine at a deer lease in Fredericksburg. The name plate showed that the engine was a Johnson and Fuller, patented

Frei bought the engine. While in-specting it, he found the engine was complete, but entirely rusted to-gether. The timing gears were chip-ped and had to be replaced, and a mplicate was made of the rusted gas and had to be replaced and a neighbor's house. He spied its fly plete, but entirely rusted to-

Using the rust solvent WD 40 to bish. disassemble the engine, Frei took each piece and sanded it with sand per and emery cloth. On some of e larger pieces he used an electric

Frei used no guidelines but his mechanical intuition in piecing the

"because the engine was so rehistoric in terms of today's otors. It was just like studying the story of mechanics.

Frei said the Fuller and Johnson

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power on wind mills.

14 months. He still remembers when the engine first started.

worth it, but I'll never forget when the engine began running," Frei said. "I had a baseball cap on, and when that engine first began sputtering and then running, that cap hit

and had time to work on his engines. His major complaint about going to school now is that he doesn't have time to spend on his hobby, except weekends.

Frei is also working on two more engines in his spare time at home. One is an Ottawa brand engine and the other is a Bull Pup. Frei estimates that both are from the early to med-1920s, but has been unable to

"This engine is special because it was used as a saw," Frei said. "This was the first attempt by man to saw, modern chain saw

The Gas Engine Magazine, a publiequipment.

Company.

Frei said this engine will be the hardest to rebuild because the tim-ing device is missing. He said he can't begin work until he can find

This is how we spell "relief": VISTA

LAST DAY ON CAMPUS! PEACE CORPS/VISTA INFORMATION BOOTH: MEMORIAL STUDENT CENTER Interviewing Seniors/Grads at Placement Office, Rudder Tower

engine which weighed 480 pounds. ticle will come up or I can write a It was used as a substitute for wind column to The Gas Engine

Magazine explaining my problem and they can publish it." This past July, Frei went to the Annual Antique Early Farm Machinery Show in Meridian. Frei Rebuilding the engine took Frei

"There were times of despair, lost knuckles and a feeling of if it was said out of the 160 early gas engines there, none were like his. the Association of Texas Antique and Early Day Farm Machinery told

the ceiling." Frei took last year off from school,

wheel sticking out of a pile of rub-

other than means of human or steam power. It is the predecessor of the

"There were grave times," Frei id, in putting the engine back to-ther, "because the engine tures and specifications taken from

cation about early farm machinery Frei said the Fuller and Johnson As an air-cooled, three horsepower meal grinder. The Bull Pup was a

small engine made by the Bull Dog

the part. "The engine is in limbo right now," Frei said. "Hopefully, an ar-

said. four

focus on specific trade problems. Heading the U.S. side is Under-secretary for Commerce Frank Weil who journeyed to Yugoslavia in September to open a modern new American business center in the heart of downtown Belgrade and to underscore the importance placed on U.S. participation in this year's annual Zagreb trade fair.

For their part the Yugoslavs sent a high-ranking trade delegation to the United States the last week of September, led by Ilij Vakic, presi-dent of the Yugoslav Chamber of Commerce, and including business leaders and company directors from about 40 of Yugoslavia's top firms and banks.

The group was meeting with representatives of top U.S. firms in areas including agriculture, chemis-try, metals and metal products and retail trade. Vakic said they would

him that the Fuller and Johnson is very rare, and that he has only seen one that is in running condition.

Frei estimates that he has spent about \$300 on his engines. They have a net worth of over \$1,500. "I had a guy offer me \$500 for the Ful-ler and Johnson engine, but I re-fused," Frei said. He added that he'll probably never give his engines up because of their sentimental value

An extensive Yugoslav traveling exhibition will tour the eastern

United States in October and

November to try to drum up busi-

ness for their export goods, includ-ing canned food, wines, textiles, clothes, leather and shoes and mechanical tools and parts. American sources say there is a percelotical block to be surgeome

psychological block to be overcome

on both sides. In the U.S. there is a lot of ignor-

ance about Yugoslavia, with its de-centralized Communist rule and

system of "self management," al-

though the country does not fall

within the Department of Com-

merce's Bureau of East-West Trade

but is treated as a Western Euro-

On the Yugoslav side, American sources said, there is almost a fear of

getting too deeply involved in the

huge and extremely competitive American market. They are con-

cerned, for example, whether

TECHNOLOGY AND

POLICY AT MIT

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pean country.

"It is a feeling of pride and accomplishment to come home and start the Fuller and Johnson," Frei said. "Working on the other ones gives me a great feeling, too." Frei said his father told him when

he began working on his first engine that he would never get it to run.

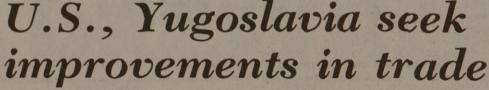
"Now he is just as proud of it as I am," Frei said. "Whenever a friend comes over, he always asks if they have seen my engine run.

MINORITY COMMITTEE

University Texas School of Law

University Texas School of Law will be recruiting on Campus on November 9, 9 a.m. - 12:30 p.m.

In front of the TAMU Bookstore in the MSC.



kets.

United Press International BELGRADE — The United States and Communist Yugoslavia are pushing to improve trade levels and economic cooperation.

Frei also said that the chairman of

In a way it's an investment in the future on both sides. It could even be called insurance.

Yugoslavia, whose number one individual trading partner is the Soviet Union, is looking for new markets so as not to become overly reliant on the East bloc for its economic needs in case economic de-pendence could be used as a pres-sure point in the future, diplomats

The United States, always ready for new markets, also is interested in joint ventures with the Yugoslavs. Trade between the two countries has shown a nearly threefold in-crease since 1970 to a two-way total around \$700 million last year, with

\$1 billion in trade expected this Moreover, the trade is more or less balanced, in sharp contrast with Yugoslavia's massive \$2.4 billion deficit with the Common Market countries in 1977.

The United States ranks number four — behind the Soviet Union, West Germany and Italy, among Belgrade's individual trading partners. But, as one U.S. source "It's a long way from one to

At last year's meeting between President Carter and Yugoslav Pres-ident Josip Broz Tito in Washington it was agreed to set up economic working groups on both sides to

A MASTER OF SCIENCE PROGRAM designed for persons wanting to participate in formulating policies for the development, use and control of technology and its consequences. Students form individual curricula to work on issues such as solar energy, the economics and legal aspects of materials recycling and the use of automation in manufacturing.

partners, together with them exam-United States and said the new ine new projects for industrial coop-American business center will be eration and joint ventures and disused to promote two-way trade: cuss new undertakings in third mar-"I'm personally convinced if we

want to sell more to Yugoslavia we have got to buy more from Yugos-lavia," he said.



Day students get their news from the Batt.

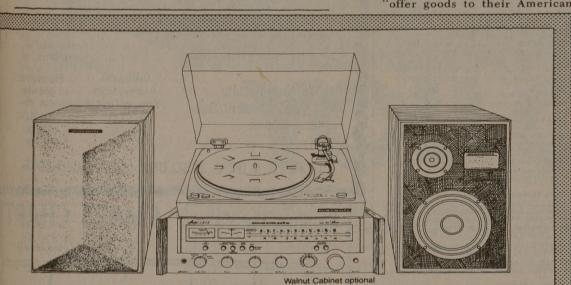
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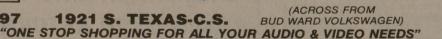
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