'Robot Brain' Translates Russian into King's English

A Georgetown university language genius has combined with leading American electronics experts to produce a mechanical

"brain" that 3 translates whole Russian sentences into English with superhuman speed and precisian.

The joint disclosure Thursday by InternationalBusiness Machines Corp and • officials Dr. Leon Do-



Dr. Leon Dostert

stert, chairman of G. U.'s institute of languages and linguistics, followed the first public demonstration of the incredible robot in New York.

Shows His Stuff

As the 49-year-old French-born professor and IBM officials looked on, a pretty girl typistwho understands not a word of hence, interlingual meaning con-Russian-typed out the following sentence on the robot's input keyboard:

"Mi Pyeryedayem Mislyi Posryedstvom Ryechyi.

At the breakneck speed of 21/2 lines per second, the IBM's 701as the robot is technically known -responded in English:

means of speech."

Dr. Dostert smiled an "absobeamed.

fessor's attractive wife, Mildred, right order. confided to the Times-Herald:

"It's all Greek to me!"

"Well, not all of it, perhaps

BY HARRY GABBETT Mrs. Dostert hastened to explain. because she has lived with it so long.

"But those electronic questions, you'll simply have to ask Leon.

The Significance

Actually, there aren't very many electronic questions to be asked, once the professor is thru with the explanation of 701's history-making behavior. But, first the significance.

"Those in charge of this experiment now consider it to be definitely established that meaning conversion thru electronic language translation is feasible," Dr. Dostert explained.

No electronics there

"The potential value of this experiment," he continued, "for the national interest in defense or in peace is readily seen '

No electronics there, either.

Tho it is not yet possible "to insert a Russian book at one end and come out with an English book at the other," Dostert predicted, "five, perhaps three years version by electronic process in important functional areas of several languages may well be an accomplished fact."

And no electronics there. Here It Comes

Electronics here, tho: For purposes of the project, IBM's 701 was snatched from its "We transmit thoughts by humdrum duties of computing intricate nuclear physical results of rocket tests, refitted with lutely correct!" IBM board a 250-word Russian dictionary chairman Thomas J. Watson (the words on a magnetic drum that revolves 2,929 times a min-Back in their home here at ute), and electronically "taught" 3314 Quesada St. NW.. the pro- to select the right word in the

The 701's initial reaction to the typed Russian sentences more than 60 were translated in Thursday's initial test) is to punch a standard IBM card full of holes-like a government pay check

From that point on you have to bear with the technicalities. Things whir. Things click. Things buzz. Separately, simul-taneously and sometimes con-, secutively and retroactively, but all of it electronically and at once. Presto! It's typed out in English on the other side.

Dr. Dostert arrived here in Dr. Dostert arrived here in 1920, graduated from G. U.'s school of foreign service in 1928 and married his West Virginia-born wife the same year. They've four children. Leon, Anne (now Mrs. Stephen Crowley, of Rockville). Pierre and Francois.