

Computer Provides Brains In Marriage With Cyclotron

While Onassis-Kennedy and Nixon-Eisenhower dominate the nuptial headlines, A&M is quietly preparing for a marriage of its own — between a cyclotron and a computer.

Nuclear scientists feel it's a perfect match. A giant "atom smasher" is grand, they agree, but it's even better if it has a "brain."

Other cyclotrons have flirted with small computers, notes Dr.

John C. Hiebert, who is presiding over the marriage, but none has involved the magnitude of the A&M operation.

The university's 88-inch variable energy cyclotron — largest nuclear research installation of its type in the Southwest — will be paired with an IBM 7094, a highly sophisticated second-generation computer. The 7094 served as the main data processing unit here before delivery of a new

IBM 360/65.

A LARGE portion of the interfacing equipment came from NASA's Manned Spacecraft Center at Houston, courtesy IBM. The NASA equipment, phased out of the space program following installation of more powerful computers, required extensive modification to meet A&M's needs.

It isn't, however, a shotgun marriage. Quite the contrary,

the mating of the two multi-million-dollar machines has been planned since 1966, with the courtship beginning a year ago, shortly before the cyclotron was placed in service.

Formal date for the wedding has not been set. Dr. Hiebert, associate professor of physics, confides the event could come next month but will likely be sometime in February. Several

"data acquisition" tests have

been successfully conducted, he adds.

ON-LINE DATA acquisition is the first of three relationships which Cyclotron Institute personnel visualize for the marriage. They emphasize that initially the computer will only be interfaced with the cyclotron's experimental equipment, rather than with the cyclotron itself.

Within a few months, Hiebert foresees an expanded role for the

computer, possibly controlling some of the experimental parameters. Still further in the future — perhaps five years — the computer may be used to control the entire cyclotron.

One obvious question crops up when assessing the marriage: which of the machines is the male and which the female? Without drawing conclusions, it can be readily ascertained the 300-ton cyclotron furnishes most

of the brawn, while the computer has visions of running the show.

"The big advantage of mating the two devices," Dr. Hiebert explains, "is that we will be able to accumulate the data in the computer in real time, display and analyze it instantaneously."

While the marriage may not be the year's social sensation, many observers feel it may more than make up for it in scientific significance.

- CRANBERRY SAUCE 19¢
- OCEAN SPRAY #300 CAN 19¢
- SUGARY SAM YAMS 2 1/2 CANS 49¢
- KRAFT MARSHMALLOW CREAM 7-0Z JAR 19¢
- COCK O' THE WALK SPICED PEACHES 2 1/2 CAN 29¢

Wishing You The

SEASON'S BEST

From PIGGLY WIGGLY

- FRUIT COCKTAIL 19¢
- STOKELY (LIMIT 3, PLEASE) #303 CAN 19¢
- BONNIE BAKER ROLLS 2 1/2 CT. PKG 49¢
- KRAFT'S PHILADELPHIA CREAM CHEESE 8-0Z PKG 35¢
- BORDEN'S EGG NOG RT. CTN. 59¢



"FOR YOUR HOLIDAY FEASTING... CHOOSE FROM THE FINEST MEATS IN TOWN... ALWAYS Fresh, Delicious... at PIGGLY WIGGLY"

- SUPER-TASTE TURKEY'S TOMS 18-20 LB. AVG. 29¢ LB.
- HEN TURKEY BAKING HEN 11-14 LB. AVG. 37¢ LB.
- FULLY-COOKED HAM SHANK PORTION 47¢ LB.
- FULLY-COOKED HAM HALF OR WHOLE 55¢ LB.

THE IDEAL GIFT

YOU MAY PURCHASE THESE VALUABLE GIFT CERTIFICATES FOR THE VALUE OF YOUR CHOICE. GOOD TOWARD ANY GROCERY PURCHASE AT YOUR FRIENDLY PIGGLY WIGGLY SUPERMARKET.

Gift Certificate

TO: _____

FOR MERCHANDISE IN THE AMOUNT OF \$ _____

FROM: _____

Signed by: _____

Redeem at PIGGLY WIGGLY

Limit One With \$5.00 or More Purchase Excluding Beer & Cigarettes.

FOLGER'S COFFEE 1-LB. CAN 39¢

POLAR KING ICE CREAM 1/2 GAL CTN. 59¢

★ THESE PRICES GOOD THURS - FRI - SAT - DEC. 19-20-21, 1968

100 Free GOLD BOND STAMPS WITH PURCHASE OF \$10.00 OR MORE (EXCLUDE TOBACCO) AT BRYAN PIGGLY WIGGLY ONLY DEC. 21, 1968

COUPON SAVINGS THIS COUPON WORTH 10¢ TOWARDS PURCHASE OF GOLD FLOUR AT 5 LB. BAG 39¢ (WITHOUT COUPON 49¢) AT BRYAN PIGGLY WIGGLY... ONLY EXPIRES: DEC 21, 1968

THIS IS IN ADDITION TO YOUR REGULARLY EARNED SAVING STAMPS!!!!

LIMIT ONE COUPON PER FAMILY

BULK FRUITCAKE INGREDIENTS

- FRUITCAKE MIX 59¢
- SHRIMP, MIXED SEASONS PINEAPPLE SLICES 79¢
- RED WHOLE AND BROWN CANDIED CHERRIES 79¢
- SEASONED PITTED DATES 59¢

- CURRENTS 35c
- WALNUTS 49c
- RASINS 35c
- MIXED NUTS 59c
- SEEDLESS 35c
- Sanitary WHIPPING CREAM 1/2 pt. Ctn. 37c

DISCOUNT PRICES ON HEALTH & BEAUTY AIDS

- ANTISEPTIC MICRIN REG. \$1.15 12-0Z. BTL. 89¢
- TOOTH PASTE COLGATE REG. 83¢ KING SIZE TUBE 59¢
- HAIR SPRAY AQUA NET REG. 98¢ 13-0Z. CAN 69¢
- SHAVE CREAM FOAMY REG. \$1.19 11-0Z. CAN 89¢

THIS HAPPY NEIGHBOR AGREES: IT'S EASY TO STRIKE GOLD!

New winners every day! Get in on the fun and the fabulous prizes! No purchase necessary.

SOUTH TEXAS MOST MODERN SUPERMARKET - SERVICE & SATISFACTION GUARANTEED

* QUANTITY RIGHTS RESERVED!



WE GIVE DOUBLE STAMPS EVERY TUESDAY WITH PURCHASE OF \$2.50 OR MORE!

"HOLIDAY SALADS BEGIN WITH PIGGLY WIGGLY'S Fresh PRODUCE!"

- ORANGES TEXAS VALENCIA LB. 10¢
- CELERY CALIFORNIA PASCAL 2 STALKS 19¢
- VIRGINIA RED ROME APPLES EXTRA FANCY LB. 19¢

TEXAS AVE & ROSEMARY COLLEGE STATION BRYAN, TEXAS