

New Machine Turns Numbers to Music

By PAT DYER

The numbers racket has taken a new twist!

Numbers can now be used for anything from testing military programs to playing music by mathematics as a result of research in the recently developed field of digital data.

A new machine which not only reproduces radio programs by analyzing the sounds into numerical components, but also shows the sound simultaneously on an oscilloscope, has been on display during the past week in the Conference Center.

Architectural Photographs On Display

An exhibition of photographs and drawings of the works of one of Mexico's foremost modern architects, Felix Candela, is on display on the first floor of the Hetzel Union Building.

Milton S. Osborne, head of the Department of Architecture, said the display traces the development of Candela's style and shows his experimenting with plasticity of form and design.

Candela, who is an architectural engineering consultant, has worked with many architectural firms both in Mexico and the United States.

Osborne describes Candela as a "genius in thin-shell design because he is able to translate this design into simple erection techniques which are important in architecture."

Osborne added that while Candela's buildings are inexpensive, they require a great deal of hand craftsmanship if they are to be successful.

The exhibit which is being sponsored by the Department of Architecture and the Architectural League of New York City will be shown until Nov. 26.

IM Boxing

Intramural Director Dutch Sykes announced today that boxing will begin Nov. 30.

The machine has been used to demonstrate the uses of digital collection and recording techniques for a seminar on "Digital Data," sponsored by the College of Engineering and Architecture and the Continuing Education Services in connection with the Ordinance Research Laboratory.

Digital data involves the methods of obtaining data from such testing programs as those by the defense department for missiles and rockets so that the data may be entered into machines for processing, according to Francis P. Finlon, associate professor of engineering research at the Ordinance Research Laboratory, chairman of the seminar.

Digital data is a new field, really developed within the past five years, Finlon said. Without these techniques it would be almost impossible to conduct the testing programs, for it would be impossible to reduce the data by manual methods, he added.

"By 1965 we may be trusting our souls to number systems," Finlon said. Techniques introduced in this field will probably be used in future air traffic control, process control, missile fire control and automatic checkout systems.

About 40 members of the military services and civilians attended the seminar. Lectures were presented by faculty members of the engineering research staff and by speakers from other institutions and from commercial and military organizations.

The participants in the seminar covered in detail the collection, recording, and conversion of test data to a form compatible with digital computers.

Cowards, Lions Will Roar Today

By the time most of you will be getting around to reading this column, I'll be in Pittsburgh rooting the Collegian Cowards on to victory. For all you gamblers on campus, the Cowards are picked by two touchdowns.

It might be a long time before a certain nine coeds will ride the elevator in McElwain again. It seems they were riding in it on Wednesday when the electricity went off and they were stranded.

A music professor was instructing his class in music history when the lights went off. He told the class that it would only be a short delay until they were back on and said he would play a record to illustrate one of his points in order to waste no time. He walked over to the phonograph with record in hand before he realized the machine wouldn't work without electricity either. The class was excused.

Most coeds ask for only half

portions when they go through line in the dining halls. What this columnist can't figure out is why a certain junior walked out of the Waring Dining Hall with 10 rolls concealed under her coat.

There are now two graves on Campus. The latest one is in the West Halls quadrangle. The inscription on it reads "to Bruce, R.I.P." I guess poor Bruce had one too many bluebooks.

One fraternity will be having a gay time tonight. It rented a complete motel near Pittsburgh for a post game celebration. Let's hope it will be a happy affair after a romp over Pitt in the afternoon.

Since this will be the last I'll have a chance to talk with you until after Thanksgiving, let's POUND PITT this afternoon and have plenty of turkey on Thursday.

—Prof. Wayne

Loan Applications Due December 2

Students who wish to apply for a loan from the National Defense Student Loan Fund must turn in their applications by Friday, Dec. 2, to the Office of Student Aid, 205 Old Main.

All full-time graduate or undergraduate students may apply, but special consideration will be given to superior students planning careers in elementary or secondary education, science, mathematics, or a modern foreign language.

The application, besides the information from the student, requires a confidential statement of financial resources which must be submitted by the parents or guardian of the student.

Dunlop Replies--

(Continued from page one) ceive scholarships."

One member said he thought most of his fellow members were "apathetic" toward student and faculty opinions of them, because they realize most students and faculty do not understand the policies of the group.

Conversely, another member said he intended to cheer for Pitt "just for spite."

The Pennsylvania State University was the first to use laboratory methods of instruction on a wide scale (1866).

Study of Coal Changes

Changes that occur in coal when subjected to high temperatures and pressures are being studied by researchers in the department of geophysics and geochemistry under a one-year grant of \$4000.

CLASSIFIEDS

FOR SALE

GIBSON 4-string Banjo with resonator, over 130 metal parts, price reasonable at \$30. Also Spanish Guitar \$15. Call AD 8-9432 nights.

FRESH CIDER. No preservatives added. Truck at Freezer Fresh, Dale, Summit, on Saturday evening, Sunday afternoon and evening. Bring jugs. Phone HA 2-8342.

DORM CONTRACT for Pollock C. UN 5-4083.

1956 VOLKSWAGEN convertible, good condition—\$650.00. HO 6-6329.

TURKEY DINNERS, Saturday, Nov. 19, 5-7 p.m. United Church of Christ (E&R) Bonauxburg. Adults \$1.50 and children 75c.

1953 FORD V-8, standard transmission, good tires and radio. Reasonable. AD 8-9071 after 5 o'clock.

FOR RENT

FOUR ROOM furnished apartment with private entrance. Located on north side of campus, suitable for a couple or student. AD 7-7218.

FURNISHED EFFICIENCY apartment, suitable for couple. Parking facilities. Available Feb. 1. Phone AD 7-7792 or AD 8-2203.

MODERN SPACIOUS furnished apartment, one bedroom, in new building adjacent to College Township school. Available Dec. 1. Just 5 minutes drive from downtown State College on 4 lane highway. Everything provided, you need only your cooking utensils and linens; ample closet and storage space. Quiet neighborhood in country setting. Enjoy close, friendly tenant owner relationship. Phone AD 7-2058.

CLEAN PLEASANT rooms, quiet street, free parking, 730 W. Foster Ave. AD 8-8839.

FURNISHED OR unfurnished 3 rooms; both heat, water and electricity furnished. Phone AD 8-9495.

MEN STUDENTS: One vacancy in furnished apartment for two—\$39 each month; including everything. Call AE 8-1409 after 8:30 p.m.

LOST

GOLD FRAMED Glasses. Call Linda, UN 5-2325. Need desperately. Reward.

DIETZEN SLIDE RULE, HUB or vicinity, needed desperately, reward. Call Cisco Pi Kappa Alpha AD 8-9082.

MATIC CARD, Chem breakage, meal ticket, and black glasses. Kapo UN 5-7825.

WOMAN'S GLASSES in gold case, beige frame. Reward. AD 7-3302.

NAVY BOYCOAT Nov. 5 outside 310 Osmond. Swap for coat left before Thanksgiving. Call Ann UN 5-4197.

MISCELLANEOUS

STARTING NOVEMBER 29: Poets Corner, HUB Reading Room, 10:05 a.m. Tuesday, Wednesday, Thursday.

WANTED

RIDERS FOR taxi to Lewistown, leaving noon, Nov. 22. Contact Artie UN 6-7175.

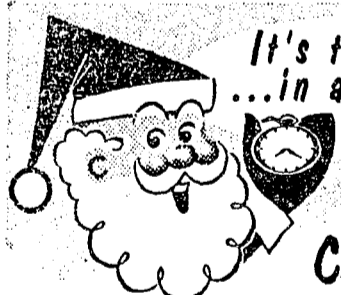
HELP WANTED

GOOD OPPORTUNITY for waiter's job. Call AD 7-4979.

KITCHEN HELP needed at Kappa Sigma. Call Bob McLaughlin AD 8-6464.

PART TIME WORK—college students (male only) evenings and Saturdays. Call Mr. Rogers between 9 a.m. and 3 p.m. AD 8-2061. Salary \$45 a week.

SELL MORE "SOLID PACKS" WITH THESE \$1.50 AND \$2.00 AD MATS

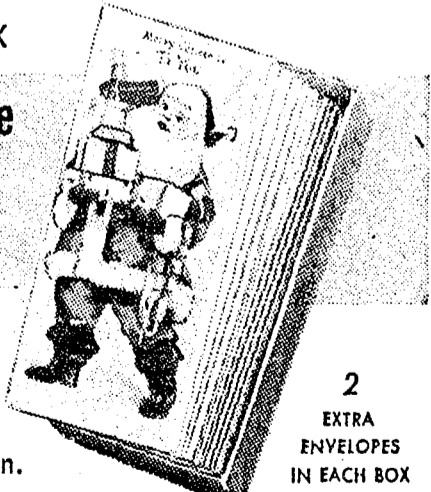


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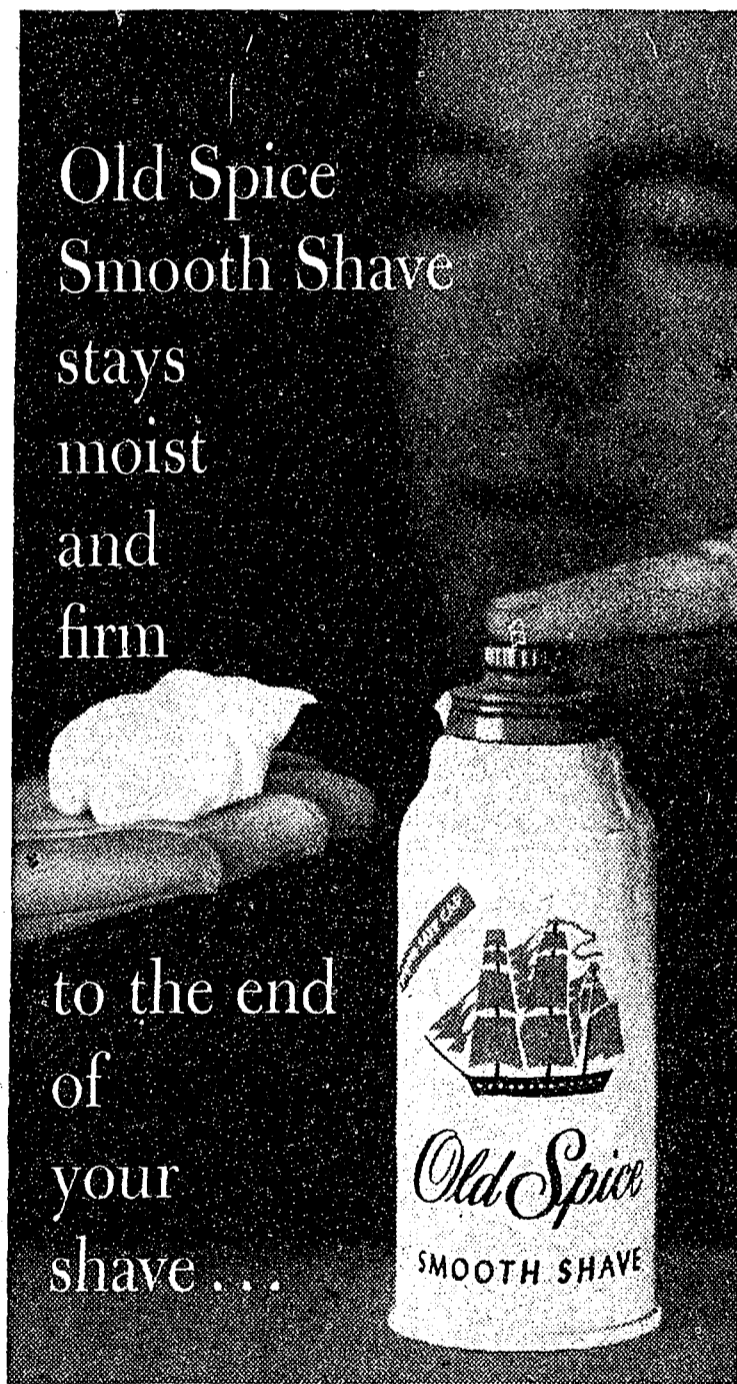
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