

Teaching Programs, Machines Studied

By DICK LEIGHTON

Solving the student's quandary about being nothing more than an IBM card may be as simple as turning the teacher into an IBM machine.

The University, one of the pioneers in educational television as a solution to the crowded-campus problem, is again being one of the first to try two other solutions — programmed instruction and teaching machines.

The two new methods provide more individual instruction than mass instruction by television.

The theory of programming is not new. One of the first accounts of a teaching program may be found in Plato's dialogue, "The Meno."

In this story, Socrates teaches an uneducated boy a complicated geometric concept by presenting the information in small logical steps and letting the boy do most of the figuring himself.

The modern concept of programming uses the same basic techniques that Socrates did. An expert in a particular field makes a careful analysis of what he plans to include in his course, makes sure that he has the objective of the course clearly in his mind and constructs his "frames" (small units of instruction).

The student is given a program that is self-explanatory and which should require no formal teacher. He sets his own pace and learns as rapidly or as slowly as his aptitude allows.

The teaching machine is merely an instrument that presents a program, provides a student with a way to record his answers, evaluates these answers and gives the student his results.

The machines range from a simple wooden box in which the program is presented on a paper roll to completely automatic combinations of information dispensers, electric typewriters and computing machines.

At present there are two sections of University students being taught by a program. Thirty students are enrolled in a basic mathematics course and 38 are enrolled in a basic English course.

Next fall the program will be extended over television to much larger sections, according to John F. Quackenbush, director of the program for the Division of Academic Research and Services. The same two courses will be offered and it is hoped that there will be at least 200 students per section. A section of students being taught by program text, a section being taught by machine and one being taught conventionally will be used to judge relative effectiveness of the TV programming.

Grant Set Up For Teachers

A labor-education scholarship program for junior and senior high school social studies teachers will be sponsored by the Pennsylvania AFL-CIO and various county and district labor agencies in the state for this summer.

The department of labor education at the University will administer the program.

The scholarship, offered on a competitive basis, will provide \$150 to winners for tuition, housing and food service for the period from July 10 to July 28. Scholarship winners will be enrolled in an advanced course in the history of American labor. The course will carry graduate credit.

Poorman, Hoogenboom To Discuss Civil War

Paul Poorman, city editor of the Centre Daily Times and instructor of journalism, will discuss "Reporting on the Civil War" on Postscripts at 9:50 a.m. today over Station WFBG-TV, Channel 10, Altoona.

On Friday Dr. Ari Hoogenboom, assistant professor of history, will talk on "Avoiding Civil War: The Razor's Edge." Marlowe D. Froke, assistant professor of journalism, will be moderator of the programs.

"Visual Aids in the Classroom"

by Mr. Muntone

A. C. E.

Wednesday 7 p.m. March 1, 1961

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FOR SALE

FOUR TICKETS for the Easterns at Lehigh, March 11 and 12. Call UN 5-8050.

1958 NASHUA House Trailer, good condition. Must sell — \$1800. Call AD 8-1787.

CONVENTIONAL BICYCLE \$10. Call AD 8-9601, ask for Ron.

1960 TR-3 \$1600. Includes radio, extra snow tires. Excellent condition. Write Bill Thompson, 401 E. Locust St., Clearfield, Pa.

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MISCELLANEOUS

SLASH YOUR high cost of kitchen equipment by buying from Equipment Manufacturers, Williamsport, Pa. Tremendous bargains on all new items and guaranteed rebuilt equipment. Dishes, china, silverware, ranges, refrigerators, dishwashing machines, etc. Phone for salesman or come to Equipment Mfgs., Inc., 487 Pine St., Williamsport, Pa. Tel. 326 - 1521.

POET'S CORNER, Feb. 23, March 1, at No. 2 HUB Reading Room 10:05 a.m.-10:35 a.m. Sponsored by Sigma Tau Delta.

RIDE FOR two needed to NYC for big party at Easter. Call John, UN 5-6118 or Dave UN 5-2618.

ROCK CLIMBING Division PSOC will meet March 1, 7 p.m., 112 Buckhout.

NO FURTHER action taken if the girl sitting next to me at The State Theatre will mail my watch to me immediately. Mery Pech, Knob Hill Trailer Court.

EXPERT SHOE SHINE—Davidson's Barber Shop, next to Murphy's — 8 a.m. to 5:30 p.m. daily.

LIBERAL ARTS Lecture Series "What Really Caused the Civil War?"—Ari A. Hoogenboom, Hub Assembly room, March 7, 8:00 p.m. Reception, 9:00 p.m. Everyone invited.

FOR RENT

TRAVELERS LODGE MOTEL—triple rooms \$8.; double rooms \$6. AD 7-2693.

APARTMENT—one bedroom; stove and refrigerator furnished. Very nice, cheap. Call AD 8-2870.

COMFORTABLE, MODERATE rate weekend accommodations for families and friends. Colonial Hotel, 123 West Nittany. Call Mrs. Cox, AD 7-7792 or AD 7-4860.

LOST

LOST: ONE PAIR black-rimmed glasses. Please call 'Jud' AD 8-2473.

PRESCRIPTION GLASSES, black rimmed, Sat., Feb. 25. Call Joe, UN 5-5102.

GREEN JACKET, second floor Boucke, between 9-10 Sat. 2/25. Reward. UN 5-4908. No questions asked.

RED PLAID Wool Scarf between Dank's and E. McCormick Ave. Call Martha Owen at AD 7-4230.

BLACK WALLET with initials M.A.F. on it. If found call Mike, UN 5-6041. Reward.

WILL THE person who accidentally picked up my tan raincoat and brown corduroy suit coat at Beta Sig Saturday night please call Bill UN 5-6041. Reward.

BLUE PENN STATE Jacket, red quilted lining at Alpha Sigma Phi Saturday afternoon. Reward. Guy, UN 5-6863.

DIETZGEN SLIDE RULE with broken index glass, Wednesday in Schwab or E.E. Call Doug, AD 8-2504.

FOUND

1961 CLASS RING found in McElwain lounge. Call Joann, UN 5-6410.

WANTED

RIDE FOR two to Washington, D.C., Friday, March 3, after 4:00. Call Elaine UN 5-7902.

RIDE TO Fort Lauderdale for two girls. Anytime after 5 p.m. Monday, March 27. Call Pat UN 5-8784 or UN 5-8746.

RIDERS TO Florida for Easter vacation; leaving March 25. Call Larry, AD 8-6718.

WAITER FOR fraternity to work for meals. AD 7-4989, ask for caterer.

WANTED: BOOK "The Blue Angel" by Hendrick Mann. Call Alvan at AD 8-9583 or AD 7-4953.

WOULD LIKE to buy motor scooter. Call Dave AD 8-0212 after 5 p.m.

TYPING AND multilithing thesis reports, etc. Reasonable sum. Call AD 7-7055.

EXPERIENCED TYPIST desires work to do at home, either thesis or commercial typing. Contact Mrs. Bradley, Lot 31, Penn State Trailer Park.

KITCHEN HELPER—Phi Epsilon Pi. Call AD 7-4953, ask for Butch.



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