

Computers that talk, sing and accompany themselves musically were examples of unusual applications demonstrated by Dr. E. E. David Jr., in an address to the Junior Engineering Technical Society Friday.

His speech, titled "Unusual Applications of Computers," was heard by more than 500 high school students, teachers and counselors during the opening session of the one-day meeting.

David, director of the Computing and Information Research Center of Bell Telephone Laboratories Inc., said computers will become increasingly important to society, defense and the economy, particularly in the field of research.

A tape recording featured a

computer singing "A Bicycle Built for Two" with a nasal tone. It sounded like someone singing in a barrel, but the rhythm was certainly there. The speaker indicated it would be some time before a computer could be programmed for opera singing.

David said computers may be used in the future for editing tapes of music and replacing imperfect portions of the tape.

In another demonstration, he showed an animated movie produced by a computer on a television tube. He said computers are creating a new field of endeavor in teaching and demonstration work.

"Many more surprises are in

store for the future in reference to the coalition between man and machine," he emphasized.

In an address prepared for delivery Friday afternoon to high school teachers and counselors, David discussed "Engineering Concepts for the High School Program."

Feedback control, logic and memory of computers were stressed in his coverage of basic principles of computers and communications.

"High school students ought to know about computers by contact, the same as they know about automobiles," David said.

David said the Commission on Engineering Education is not trying to attract more people to engineering or have professionally oriented courses in high school, but is seeking to give students a basic understanding of engineering which they will be called on as mature citizens to evaluate, pay for, and live with.

Polygraph Session Set For May 10

The second polygraph school of 1965 has been scheduled for May 10 through June 18 under the direction of Ira E. Scott, school supervisor.

Enrollment is limited to small groups of municipal and state police, county peace officers, industrial and retail security, and persons responsible for personnel investigation.

Sponsored by the Engineering Extension Service in cooperation with the Texas Education Agency, the course gives a basic understanding of polygraph examination and qualifies those who take it to conduct examinations.

The Polygraph Examiner's School is part of the Police Training Division headed by Wallace Beasley.

Landscape Artist Schedules Visit

Garrett Eckbo, a landscape artist from Los Angeles and San Francisco, is scheduled to visit the School of Architecture Friday.

Robert F. White, professor of architecture who announced the visit, said Eckbo will meet informally throughout the afternoon with landscape architecture students and other interested persons.

Eckbo's work has won many honors in the United States and abroad, White commented. He said Eckbo is the author of three outstanding books dealing with landscape architecture.



Saved By Goggles
John Robison holds the pair of safety goggles that prevented serious injury while he broke concrete on the campus with an air hammer. A chunk of concrete flew up, striking the goggles and breaking one lens. It is rare to have the lens broken. Robison has worked for A&M 14 years and is a helper in the construction division of the Buildings and Utilities Department.

Texas Weather Seems Cold To 2 Researchers

Texas weather really isn't colder than that of Antarctica. It just seems that way to two A&M University researchers back from the polar region.

Professors S. Z. El-Sayed and Guy A. Franceschini returned to A&M this week after spending most of February aboard the Argentine icebreaker General San Martin. Research information gained concerning biological productivity, Dr. El-Sayed's field, and air-sea interaction, a special interest of Dr. Franceschini's, is believed to be the first for a considerable area of Antarctica.

It's the end of summer in Antarctica and the season has been marked by exceptionally less ice than usual, so the icebreaker had

easy sailing for much of the time. But there was one violent two-day storm in the Bellinghousen Sea when the ship rolled so violently no one was allowed on deck and some of Franceschini's equipment was torn loose.

Temperatures were below freezing but the air was dry generally, so the scientist did not mind. Sea temperatures usually were just below the freezing mark.

"One of the exceedingly rich areas of the world ocean, from the standpoint of biological productivity, is the Gerlache Straits," El-Sayed said. Microscopic biological organisms were found in such quantities as to discolor the sea which "teems with life."

"We didn't find anything startling from my viewpoint, conditions were as anticipated," Franceschini said of his studies. He measured the sunlight as absorbed and reflected by the sea and sea ice.

"Light is the limiting factor for biological productivity in that area," El-Sayed said of the Bellinghousen Sea and Gerlache Straits.

The biological oceanographer was surprised to find phytoplank-

ton in enormous quantities on the underside of sea ice.

"This great abundance of the plankton under ice is puzzling," El-Sayed said. "For a long time people have thought plankton could not live under the ice due to the lack of sunlight."

Apparently these particular creatures are "shade-adapted," able to thrive in the partial light filtered through the ice.

The Argentine icebreaker with the A&M scientists aboard almost made history with a landing on Peter I Island. The rocky island usually surrounded by ice last was visited in 1928 although several expeditions since have attempted to put landing parties ashore. The General San Martin crew got within one-fourth of a mile of the shore before rough seas and winds prevented landing either by launch or by helicopter.

The scientists, both veterans of Antarctica cruises, have high praise for the Argentinians' efforts in the polar region. A&M and the Argentine Hydrographic Office with National Science Foundation assistance are cooperating closely in an extensive survey of biological productivity of the oceans beyond South America. On this latest cruise biological observation or "stations" were made at nearly 350 points. Franceschini's observations were made continuously for 12 days before the storm ruined his equipment.

Students Given Inside Track On Income Tax

Working students got word today on how to fulfill their tax obligations to Uncle Sam from Clarence E. Carlson, administrative officer, Internal Revenue Service in Bryan.

1. Students earning \$600 or more during 1964 must file an income tax return, even if the student is claimed as a dependent by his parents.

2. Students with incomes of less than \$600 during '64, and who have had income tax withheld, should file a return to get these taxes refunded. Usually, a Form 1040A will do the trick.

3. Single students filing a return should claim one exemption for himself, even if he is also claimed as a dependent by his parents.

4. In a community property state, such as Texas, the total combined income of husband and wife is considered one-half attributable to each. Thus, married persons, including students, may elect to file a joint return by combining their total incomes; or separate returns with each reporting exactly one-half of the combined income.

5. Married students filing joint returns and who are furnished their chief support by their parents cannot be claimed as dependents by their parents.

Usually, a telephone call to IRS will get answers to many tax questions.

Marines Send Selection Team

The United States Marine Corps Officer Selection Team is visiting the campus through Wednesday to explain the various officer training programs.

The team, commanded by Capt. John H. Gray, will be located in the Memorial Student Center from 8 a.m. until 4:30 p.m. daily.

Programs of interest to A&M students are the Officer Candidate Course, open to eligible graduates and seniors, and the Platoon Leaders Class, open to eligible undergraduates.

Morse Code Course Slated

The Memorial Student Center Radio Committee will begin conducting Morse Code classes Wednesday night for anyone interested in learning the code.

There will be two sessions each week on Wednesday and Friday evenings in the language lab on the first floor of the Academic Building from 7 to 7:45.

The instruction will be presented through the use of special tapes that begin with an introduction to the code and carry the student up through 20 words per minute.

Though primarily designed for fulfilling requirements peculiar to amateur radio licenses, anyone interested is urged to attend. The classes will be continued until each student's desired level of proficiency is attained.

Bryan Opens Adult Class Registration

Registration for adult education classes at Stephen F. Austin High School for the spring semester began Monday, according to John Lucas, evening school director.

Any person 16 years or older who does not attend high school during the day may register for the evening courses.

English, American literature, English literature, world history, American history, government, applied science, algebra geometry, business arithmetic, bookkeeping, typing, shorthand, and art will be offered. Other courses will be available if as many as 15 register, Lucas said.

Art classes will meet for three hours, one night a week. Academic and commercial classes will meet one hour on Monday, Tuesday and Thursday nights. Three courses may be taken during the 10-week semester.

Students may receive high school credit for the courses. Tuition for courses is \$15 per course.

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SALE OF SURPLUS BUILDING
Sealed proposals for the purchase and removal of a one-story, stucco-covered, wood-frame building (Old Post Office), located near West Gate, Texas A&M University, College Station, Texas, until 2:00 p.m., March 18, 1965, and then publicly opened and read aloud. Instructions to bidders and proposal forms may be obtained from the Director of the Physical Plant, 600 Sulphur Springs Road (FM 60), Texas A&M University, College Station, Texas. The University reserves the right to waive any technicalities and to reject any or all bids. 146fn

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