

**Student Loans
Now Available**

A limited number of National Defense Student Loans will be made to assist full-time A&M students during the spring term, R. M. Logan, chairman of the campus committee administering the loan program, announced.


Application forms for the loans may be obtained from the Student Aid Office in Room 8 of the YMCA Building starting Monday and completed applications will be accepted until 5 p.m. Dec. 1.

Logan said applicants will be notified of action taken on loan requests by December 18.

"Under the terms of the federal act, loans may be made only to a student who can establish a serious need for such a loan," Logan said.

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Yell Leaders Get Late Dunkin'
Civilian Yell Leader Jim Benson, left, and head Yell Leader Frank Cox, right, wring the water out of their clothes following a Monday night bath in the Fish Pond. It is tradition to dunk the Yell Leaders after a home victory, but Cadets decided they needed to soak up some of Saturday's victory over SMU.

**Librarian Job Eased
With Data Processing**

Data processing can be "a very powerful tool" in freeing librarians from clerical tasks so they can give more time to serving students and faculty.

This was the gist of the message heard by librarians attending the first seminar on data processing for A&M Libraries staff members. Among the 65 persons present Friday at one or the other of the identical seminars were more than a dozen guests from Arlington State College, Rice University, Sam

Houston State Teachers College and the University of Houston.

A&M Library Director Robert A. Houze stressed the introduction of data processing techniques will not cost anyone his job. He said A&M libraries, like virtually all libraries, face spiraling demands for services and already are understaffed.

"Direct service to faculty and students is our aim," Houze said. "If we can let machines take over as much of the clerical work as possible, then we all can spend more time in service."

Close liaison with regular meetings of representatives of the A&M, Rice and UH libraries was cited by Houze as the libraries move into the era of data processing.

Answering questions on A&M's intensive study of automation with emphasis just now upon the serials or periodicals was Bruce W. Stewart. He is described as "the first full-time data processing supervisor on the staff of an academic library in the Southwest."

Much of the seminar presentation was by Robert Anderson, a library specialist with the IBM Corp.

Anderson defined data processing as essentially information analysis and said the techniques were applicable to such varied library operations as serials, circulation, acquisitions and cataloging. Much of his presentation was introductory material to data processing such as the punch cards.

Anderson is closely involved in A&M's intensive planning for bringing data processing techniques into Cushing Memorial Library and also has assisted as Rice University introduced a few weeks ago a mechanized circulation or charge-out system.

The seminars planned especially for A&M Libraries staff members will be held regularly, Houze said in announcing plans for the series. He described the purpose as being "to acquaint the library staff with some of the problems involved and philosophies of applying data processing techniques to library operations."

**Dynamite Out
In Geology
Exploration**

The dynamite blasts thousands of Texans have heard as geological seismic crews study the earth's surface may go the way of the dodo.

A&M marine geophysicists have a brand new air gun to use instead of dynamite charges, for example. Earlier forms of the air gun and an electric arcing device have been tested in recent years for marine seismic work. Crews working on land continue to use explosives but some use a device that drops a heavy weight to the ground, setting off vibrations.

The new air gun obtained for A&M marine seismic work discharges bursts of compressed air. The gun and its "fish rig" with a total weight of 100 pounds lets off an explosive "whoompf" every second while instruments aboard the ship record the pattern of sound waves bouncing back from inner rock of the earth. The rig trailed behind the ship uses the sudden release of 12.5 cubic inches of air compressed to 3,000 pounds per square inch to produce the sound.

"In the last 10 years there has been lots of study of sound sources," John Antoine, a A&M research scientist and marine geophysicist, said. He is a veteran marine scientist and the co-author of papers with Dr. Maurice Ewing, director of Lamont Geological Observatory of Columbia University.

"Explosives are expensive and considered rather dangerous," Antoine said succinctly.

The new air gun is towed about 50 feet behind the research vessel and at a depth of 10 feet. Also trailed in the water is a string of hydrophones, listening devices.

"You can hear a low whoompf. It's not sound so much as feel," Antoine said of the sensation as the air gun blasts. A large bubble rises to the surface after each explosion.

"You should be able to fire the air gun every second or so, while with explosives 30 seconds is a good rate," the research scientist said. Thus a great deal more data can be obtained.

**LBJ Pays
16 Years Debt
To Student**

(P) — "Please consider this a dun, Mr. President."

This is what Doyle Reynolds, 25, a Lamar Tech student, said when he wrote to President Lyndon Johnson two weeks ago.

Reynolds said he sent the letter to the White House after hearing an item on television concerning Johnson's 1948 Texas senatorial campaign in the Port Arthur area.

The letter added: "A commentator said you threw your hat to the people from the helicopter, and gave a quarter to the person who returned it."

"I was just a little fellow the day you landed the helicopter in Elks Park and spoke to the people there. I remember returning your hat to you, but I don't remember getting my quarter."

Reynolds said he received this letter on election day:

"I have never welched on a bill and I do not intend to start now. Enclosed please find the quarter I have owed you since 1948. I am enclosing an autographed picture which I hope you will consider the interest. Thank you for bringing the matter to my attention. Lyndon Johnson."

**Cotton Bowl Starts
Ticket Drawing**

DALLAS (P) — Bennett M. Wilson of Cabot, Ark., was the first name drawn Monday for seats to the Cotton Bowl game on New Year's Day.

Wilson's application was four tickets.

The next four names were Capt. Charles F. Taylor, Sherman, Tex.; Wordie W. Evans, Dallas; Glen Farris, Carlsbad, N. M.; and Dr. J. W. Sprinkle, Georgetown, Tex.

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**Cadet Corps
To Observe
Veterans Day**

The Corps of Cadets will have its brief, traditional, ceremonies at 12 o'clock noon Wednesday, Veterans' Day, to honor Aggies who fought and died for this nation.

Plans for the ceremonies as announced by the commandant's office include the traditional laying of the wreath at the memorial Old Main Drive, the sounding of taps over the loudspeakers atop Memorial Student Center, and a det formations in front of the dormitories.

Neil L. Keltner as colonel of the corps will place the wreath at a marker near the Old Highway entrance.

**Official Asks
Early Mailing
For Holidays**

Christmas is still over a month away, but students should start getting their packages and cards ready to mail, the College Station postmaster advised recently.

Every year around Christmas the mail gets heavier than the year before, Postmaster Ernest Gregg said.

Even though there is more mail extra help has not been used.

Gregg stressed that everyone should send mail early, especially fragile packages. Packages usually come out in better shape when there is not a big rush.

Gregg also gave Christmas mailing tips: When sending packages wrap them securely and have the correct address on the package. The zip code and return address should be put on all mail.

A slip of paper should be enclosed in packages to show return address, list of contents and address of the addressee. This slip of paper could be very important should the package have to be opened, he said.

The Christmas rush around here is usually a week before and a week after the Christmas vacation, said Gregg. In most towns he said the rush is a few days before and after Christmas Day.

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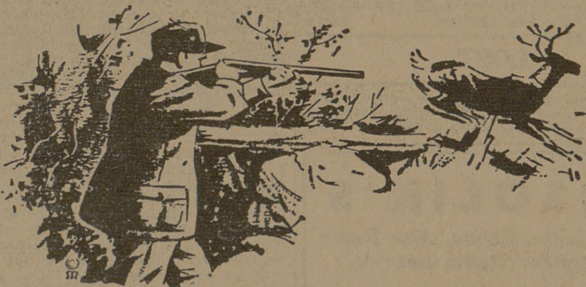
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