

Menu Changes for A&M Bat Researchers

A group of A&M researchers enjoying American food again for a summer trip to collect bats throughout Central and South America while eating exotic native dishes.

Dr. Dillard Carter and graduate students Duane G. Gall of McComb and H. K. Smith St. Petersburg, Fla., crossed Mexico from east to west.

The Department of Wildlife Management with financial support from the National Institute of Health is far along with a major research study of bats in Mexico and Central America. The expedition to South America was the first to that continent.

Approximately 3,000 bat specimens are being added to A&M's collection.

The researchers traveled private roads and cruised some rivers. They collected specimens from level to the snowy elevation of 15,000 feet. Mammals other than bats were collected as the opportunity arose.

"We got a 200-pound rat which ate on five days and then went monkey hunting," Carter said of their fare while collecting the Amazon headwaters in Peru. The capibara, largest of all the mammals which includes the American rats eat grass and other vegetation.

"They look more like a hippopotamus than anything else," Carter said of the giant rodents which graze at night. They have much less hair than a pig.



A&M Prof Honored
The Ralston Purina Teaching Award of \$1000 and a plaque were presented to Dr. Cecil B. Ryan an associate professor in the Department of Poultry Science at the recent Poultry Science Association annual meeting at the University of Minnesota.

In the photograph, left to right, are Dr. J. L. Millican of Purina, Dr. Ryan and Dr. Edward G. Buss of Pennsylvania State University, chairman of the Teaching Award Committee.

100 MPH Is Seen For Speed Limits

American drivers within 20 years legally will speed along the highway at 100 miles an hour.

This is the forecast of Dr. Leslie V. Hawkins, A&M professor of

industrial education whose special interest is driver education.

"I think its going to require an entirely new concept of driving, the professor said of high-speed driving in the future.

And 100 mile-an-hour travel also is going to be more expensive. Everything from highway construction to equipment within the autos is involved, Hawkins said.

The professor who is responsible for the driver education instructor program at A&M has served as a consultant and moderator of a number of national driver education programs.

"I don't believe that within 10 years will have much roadway suitable for 100 mile an hour driving, but I think that in 20 years such driving will be common," Hawkins predicted.

He cited driver's "seeing habits" as among the necessary changes in driving concepts as speeds move upward. Too many drivers even now do not watch for developments far enough ahead of their own car, he said.

"I think another thing this higher speed will do is to make necessary illustrations and sketches, posted so the drivers know what they are getting into as they approach an intersection," Hawkins continued.

"I think these changes also are going to mean the periodic refreshing of drivers. It may even come to the point we issue different types of licenses," Hawkins said. He explained that a "superior license" might be issued to safer drivers who complete regular, periodic refresher courses.

The professor believes "a lot of speeding" by drivers nowadays is due to lack of information. He cited as an example that rain on a highway means autos lose one-third to one-half of their traction.



Automation Is Coming!
H. Craft, center, a leading specialist in library automation, visited A&M Thursday to discuss the University's library program. An IBM information retrieval specialist, Craft is pictured with Dean of Instruction W. J. Graff, left and Library Director Robert A. Houze.

Seismic Vibrator To Conduct Highway Pavement Research

A facility for testing highway pavements nondestructively under scale conditions has been named for the Research Annex, Charles J. Keese, Executive Director of the Texas Transportation Institute.

It will consist of a 450-foot highway 60 feet wide made up of

27 separate sections of pavement that differ in materials and thickness of layers. Bids are now being received for its construction.

Upon completion of the facility, research crews supervised by Frank H. Scrivner, head of the Department of Pavement Design, will use a machine known as the Shell Vibrator to gather data. Employing seismic principles, the machine introduces vibrations into the pavement at various frequencies and then measures the wave length of the resulting surface wave, Scrivner said. The wave lengths are a function of variables involving thickness and elastic properties of the base, subbase, and subgrade of the roadway.

The new facility will enable the researchers to test flexible pavements of different designs under more exacting conditions in one place in conducting research to determine the best pavements for Texas in a cooperative investigation with the Texas Highway Department; Department of Commerce, Bureau of Public Roads; and the Highway Research Board.

The researchers have had to travel to various parts of the state to find pavements of certain designs and to test them by brake-up and sampling means which were destructive to the highway and caused inconvenience and maintenance. In such cases thickness of layers have not always been exact and other conditions have varied. Now all work will be under ideal laboratory conditions with opportunities for constant comparison and review, Scrivner pointed out.

The research makes use of statistical and calculational technology that has resulted from cooperation with the Institute of Statistics.

Special Class Scheduled At Oak Ridge

The Oak Ridge Institute of Nuclear Studies has announced a special Summer program for college students beginning their junior year.

The program offers temporary appointments to a limited number of science majors on a competitive basis. The positions are to be filled for the summer of 1965.

Most of the appointees will work at the Oak Ridge National Laboratory with a few others filling openings at the University of Tennessee Agricultural Research Laboratory and the Oak Ridge Institute of Nuclear Studies.

Students chosen will receive \$75 a week plus travel pay.

The purpose of the program is to give undergraduate students the opportunity to better understand and know how to employ the research methods of the AEC. The program is designed to stimulate the student to enter graduate school.

The program is primarily for students from small colleges in the South who possess the potential for a successful scientific career. Information and application blanks are available from the Student Trainee Program, University Relations Division, Oak Ridge Institute of Nuclear Studies, Oak Ridge, Tennessee, 37831.

The deadline for filing is January 15, 1965.

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Poetry Contest Deadline Nears

The National Poetry Press has announced the deadline dates for manuscripts to be considered for the National Teachers Anthology and the Annual Anthology of College Poetry.

The deadline for the teacher publication is January 1; for the student edition the date is November 5.

There are no limitations on theme, form or style of the compositions, or as to the number a single author may submit. All college teachers and students are encouraged to enter their work.

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AMONG THE PROFS J. Wayne Stark Wins Term On College Union Committee

J. Wayne Stark, director of the Memorial Student Center, has been appointed to a three-year term on the International Relations Committee of the Association of College Unions International. He previously served as president of the association and on various important committees.

The association is currently celebrating its golden anniversary. Its purpose is to provide an opportunity for unions throughout the world to join in studying and improving their services, and to assist in the development of new college unions, Stark said.

Delane E. Welsch, a Nebraskan, has joined the Department of Agricultural Economics and Sociology as an assistant professor.

Dr. R. E. Patterson, dean of the College of Agriculture, said

Welsch will conduct research on livestock and farm organization in East Texas.

The economist received his BS and MS degrees from the University of Nebraska. He spent two years at Michigan State University studying for the PhD degree, and the past year in Nigeria, West Africa, collecting data and writing his dissertation on economics of the rice industry in that country.

The appointment of Dr. Teddy J. Hirsch as associate head of the Structural Research Department of the Texas Transportation Institute has been announced by Charles J. Keese, executive officer of the Institute.

Hirsch received his BS; MS and Ph.D. degrees in civil engineering from A&M. He has conducted major research projects involving

concrete piles and lightweight concrete in cooperative work of the Institute with the Texas Highway Department and the Department of Commerce's Bureau of Public Roads.

The College of Veterinary Medicine has two new faculty members.

They are Dr. William Earl Berkley, formerly of the University of California, and Dr. Jerry Don Bell, radiology instructor.

Dr. Berkley, a 1963 graduate of A&M, is an instructor in large animal clinics.

Bell has returned to the Department of Veterinary Parasitology after a year's leave spent at the University of Minnesota, where he worked toward a doctoral degree.

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THE GRADUATE COLLEGE
Announcement of Final Examination for the Doctoral Degree (Defense of the Dissertation)
Full Name of Candidate: Elsik, William Clinton
Candidate for Degree of: Doctor of Philosophy in Geology
Title of Dissertation: Palynology of the Lower Eocene Rockdale Formation, Wilcox Group, Milam and Robertson Counties, Texas.
Time of Examination: Sept. 16, 1964 at 3:00 p. m.
Place of Examination: Room 104 in Geology Building
Wayne C. Hall
Dean of Graduate Studies 6714

GRADUATE COLLEGE CALENDAR, FALL SEMESTER, 1964
Sept. 14-18 Registration for the Graduate Record Examination
October 9 Last day for filing thesis proposal for Master's degree
October 10 Graduate Record Examination
October 19 Last day for filing application for advanced degrees**
October 22 Last day for qualifying for admission to candidacy for those students who expect to receive the Ph.D. or D.Ed. in May 1965
November 10 Foreign language examination for Ph.D. candidates
January 4 Last day for filing original and two copies of theses and dissertations in final form with the graduate college

GRADUATE COLLEGE CALENDAR, FALL SEMESTER, 1964
January 15 Commencement
*Required of all graduate students who have not taken the Aptitude Test and an Advanced Test of the GRE. To register, pay \$5.00 fee at the Fiscal Office and take receipt to the Graduate College Office.
**Applications for degrees should be filed at both the Graduate College and the Registrar's Office.
Note 1: Candidates for doctoral degrees are reminded that the scheduling of final examinations is now published under "Official Notices" in The Battalion. Forms for this purpose, available at the Graduate College, must be submitted to the Graduate College no later than one week prior to the day of the examination.
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