

THE BATTALION

SMU MANADA QUEEN this spring is Kenneth Benson Jr., 22-year-old political science major. He campaigned against the eight women contestants as a write-in candidate last week and polled about 40 per cent of the vote. He will reign over SMU's spring festival. (AP Wirephoto)

School protection, class roll-taking may change through NASA research

PASADENA, Calif. (NASA) — Technology's effort to use aero- The system can record any num-An alarm system that shows a potential for keeping small school disorders from becoming big ones, and a computer that keeps attendance records have been developed by the National Aeronautics and Space Administration's Jet Propulsion Laboratory here

Both are a part of NASA's Office of Advanced Research and

LIBRARY

(Continued from page 1) history of Irish livestock," Dykes recalled. "After 25 years trying, he was still short by Volume 2."

Later invited to visit a shop dealing in Gaelic items as a must stop for his visit, Dykes spotted the total set and found it for sale.

In the same place he found a volume of "On the Ancient and Modern Races of Oxen in Ireland" by Dr. Sir William Wilde, father of the famous playwright Oscar Wilde. It was published in the proceedings of the Royal Irish Academy in 1858.

"I was afraid it would really be expensive, but asked the young lady at the counter-in my best Irish brogue - what the price might be.'

Dykes obtained the Wilde work for three pounds (\$7.20).

space techniques as practical sober of assistance requests simullutions to public problems. taneously. The alarm system has also

The mobile alarm has been tested at the John F. Kennedy High School in Sacramento, Calif., since the beginning of the school year. Officials say it has been a significant factor in the prevention of major disorders. A second project undertaken by the NASA JPL team could Each teacher can alert the principal's office by activating an ultrasonic device the size of a fountain pen. The device uses no batteries and can be operated from any place in the building.

time Friday after 40 years service

Stewart, 68, was chef at Dun-

Duncan manager Henry Well-

nitz said Stewart "is the best

Popcorn, as Stewart was tagged

by a student several years ago,

began A&M food service work in

June, 1924. He quit once, to try

his hand at farming the Brazos

Food Service Director Fred W.

Dollar, other university officials

and Stewart's co-workers paid

him tribute Friday and wished

County community of Smetana.

in Texas A&M dining halls.

can Dining Hall.

cook in the state."

rooms of America. A small computer similar to

provided quick response to acci-

dents such as helping a student

welder whose glove caught fire,

another whose hand was cut by

a bandsaw, and another who had

make classroom roll call as obso-

lete as inkwells in the school-

an epileptic attack.

Duncan chet retires

James C. (Popcorn) Stewart the meats specialist a successful hung up his apron for the last retirement.

During his tenure in Texas A&M dining halls, Stewart worked under Sbisa and Duncan -for whom the halls are named-Hotard, Penniston, Nugent and Dollar. He has been requested on numerous occasions to barbecue for groups meeting at Henry Clay's "Friendly Acres."

Stewart and his wife Daisy have seven children, now living in Alaska, Topeka, Kan.; Kansas City, Houston, and St. Louis. Sammy Charles plays outfield for the Arkansas Travelers baseball team.

equipment used to monitor radio signals from outer space has been adapted by JPL engineers to relieve teachers of the tedium of taking attendance. The "Automated Attendance Accounting (AAA) System" is being tested at the same Sacramento high school. If proven feasible this semester at Kennedy High, the AAA system could usher in a new push-button era for school teachers.

Instead of making time - consuming roll calls and written reports, each teacher pushes buttons on a small keyboard that electronically records absentees in the school's accounting office.

The computer stores the information each period and does an end-of-day compilation of the school's attendance. Frank Schimandle, Kennedy principal, says some teachers and office workers will be relieved of 10 to 14 reports daily. The AAA system is expected to save each teacher up to 40 minutes per day.

The experimental system can handle up to 128 classrooms and 3.000 students. Each of Kennedy's 76 classrooms has been

that the system will also en a closer check to be kept on t ants and mid-day dropouts. The AAA system was ada from a basic small computer in Mariner missions. JPL e

equipped with an AAA trans

ter. Kennedy has 1,700 stude

Here's how the system wo

A compact transmitter in e

classroom has keys numb

from zero to nine plus buttor

signal tardy students, trans

sion errors, or emergency a

Each student has a four-d

number; each teacher has a c

book listing students and the

The teacher presses the

bers of absent students

which are recorded in a ce

computer. The computer

vides readouts of class at

ance each period. One clerk-

ist can operate the complex a

Each teacher and room has

several days of training.

identifying code number,

Principal Schimandle belie

numbers.

and is steadily growing.

neers supplied the complex software to record the des school data.



1st Session	\$90.70
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YOU CANNOT EAT FOR LESS ANYWHERE ELSE "QUALITY FIRST"

deficiency problem **Coconuts may offset protein** two plants process 700 tons of veloped, Quinitio says the whole Texas A&M researchers are Co. of the Philippines, and Dr. and Africa. coconut will be used, except for

developing a process to economically extract food proteins from fresh and dried coconut.

Funded by the U.S. Agency for International Development (AID) through the Texas A&M Research Foundation, the study is expected to help solve protein deficiencies for people in Asia

the College Station and Bryan

area crept to around the six-inch

Early May changed the situa-

tion and, according to the long

range National Weather Service

outlook, the trend will continue

The outlook calls for near nor-

mal temperatures and moderate

precipitation of about four inches

between mid-May and mid-June.

The period should be predomi-

during the next 30 days.

mark during April.

Heading the project is Dr. Karl Mattil, director of the Food Protein Research and Development Center at A&M, and Dr. Carl M. Cater, head of the center's Oilseed Products Division. Responsibility for the study lies with Perry H. Quinitio, on leave from the Franklin Baker

April boosts B-CS rainfall total to 6 inches

Six-month rainfall totals in nately humid and cloudy, with low, 1.26 at Harvey, 1.23 at Kur-

The area drained by Burton,

Wolf Pen and Bee Creeks re-

ceived 1.05 inches last month, the

average of 34 observers in a

Texas A&M rainfall runoff

The top measurement within

the watershed was 1.10 inches in

the 300 block of Brookside and

1000 block of Wind Road. A 2.01

above-normal morning tempera-

tures and below-normal after-

R. D. Hagenmaier, assistant research chemist at the Oilseed Products Center.

Quinitio, research and quality control manager for Baker's two Philippine plants, reports that technology is available to extract the protein but the processes currently are not economical. The

ten and 1.18 at Easterwood.

South Winters.

gauging was made at Steep Hol- April 7 to 88 on April 26 and 27.

An April low of .83 inch was

recorded at Bizzell Hall on the

A&M campus, in the 1000 block

of Edgewood and 1100 block of

May 9-11 thunderstorms includ-

ing varied size hail produced be-

tween three and four and one-

68 degrees, slightly above nor-

mal. The range was from 37 on

April temperatures averaged

half inches of rain here.

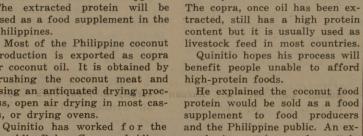
coconuts each day, he said. He expects a pilot plant installed in the Oilseed Production

Center here to provide the answer to the economic problems. Process operations are expected to begin shortly, he said.

If the process is feasible, Quintitio reports, an identical plant will be built in the Philippines. The extracted protein will be used as a food supplement in the Philippines.

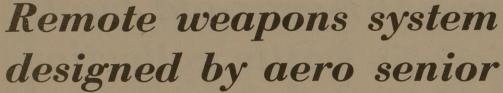
production is exported as copra or coconut oil. It is obtained by crushing the coconut meat and using an antiquated drying process, open air drying in most cases, or drying ovens.

Quinitio has worked for the month study.



Franklin Baker Co., a subsidiary of General Foods, for the past 10 years. The chemical engineering and food technology graduate came to Texas A&M in January as senior scientist on the 18-

When a protein process is de-



and the Philippine public. An example is protein supplement in baby food. Dr. Carl M. Cater, head of the Oilseed Products Division, Food Protein Research & Development Center at A&M, said he is optimistic an economical process will be developed.

the water.

fuel by the farmers.

noon highs.

study.

A weapons system designed to new. The Army's 8½-ton operakeep him in battle contact has been proposed by a Texas A&M minigun. engineering student.

Dudley C. Wilson's idea is a remote - controlled hovercraft mounting a variety of automatic would be replaced by remote weapons

remote amphibious air raft for position. tactical support.

The senior aerospace engineering major of Tulsa, Okla., said tuators and communications gear current technology can remove the soldier from the heat of battle and place him in a protected 350 horsepower air-cooled piston but not necessarily isolated location.

Wilson believes his remote weapons platform will increase the soldier's confidence and willingness to fight.

"War is waged for control of people and land," he added. "If it must be fought, it must contain the human element, otherwise a battle would be a meaningless, expensive junk heap."

Wilson noted that military applications of hovercraft is not lift fans.

move the foot soldier away from tional SK-B hovercraft gunship 40 knot operating capability unthe direct path of flying lead but carries a crew and gunners for four machine guns and a 7.62mm

He researched and designed a lighter, more maneuverable and controllable vehicle. Its crew equipment, the majority of which He calls it RAMPARTS, for would be located in the control

> Transistorized cameras for battle situation display, sensors, acwould be carried on the 18-footlong craft. Designed around a engine, it would be 12 feet wide and have a $6\frac{1}{2}$ foot silhouette.

Wilson envisioned a two-turret weapons system in which a variety of machine guns, small cannon or grenade launchers would be interchangeable.

He used only a moderate amound of armor in his hovercraft design, employing thrust fan housings, ammo boxes, engine and self-sealing fuel tank to protect remote equipment and

RAMPARTS has a four-hour. der Wilson's design parameters and could reach areas inaccessible to land or water vehicles.

"The hovercraft is as effective over water as land," the Squadron 11 cadet commented. "Snow, desert, marsh, ice flows and rice paddies could be negotiated. With its 40 knot speed, RAM-PARTS could quickly overtake surface ships or land vehicles." In day or night river patrols, the craft might precede a command gunboat to detect or engage enemy forces, he added. The same procedure could be used with an armed helicopter, which would be most visible and eluded by hostile forces, giving

RAMPARTS a surprise element. Dr. Charles A. Rodenberger, aero engineering professor for whom Wilson wrote a report on the design project, called it "a very innovative concept."

In it, Wilson applied his engineering ability outside his own immediate field of interest. An Air Force ROTC cadet, he will be commissioned in the Air Force upon graduation.



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