Plastic and firberglass tested for use as runway surface

The Air Force Special Weapons material for surfacing expedient vestigation, polyurethane foam Lab at Kirtland AFB, New Mexico, has granted \$11,200 to A&M the Materials Laboratory under runway is also under construction, for extension of the work of a civil engineering research team lap, Prof. Bob M. Gallaway, and in the area of soil stabilization.

The fatigue characteristics of a fiberglass reinforced polyester the principal interest of the in-

the direction of Dr. W. A. Dun-Dr. Jon A. Epps.

While the polyester material is

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"Quality First"

Dunlap said.

The work is an addition to a project for the same sponsors, funded in the amount of \$54,000, in which an index system for soil stabilization is being established.

"An engineer without specialized soil stabilization knowledge will be able to obtain several alternate schemes to solve his particular stabilization problem by using simple soil test data which will be available to him," Dunlap explained.

The tables would help the engineer in the field make decisions as to the kinds and amounts of stabilizers, if any, which should be added to the soil, and in what manner, for best results in a proposed runway, Dunlap continued. Climatological and construction factors are taken into consideration, and separate tables are provided for expedient and permanent installations.



SHE'S FOR REAL. Ann Sanford, 22-year-old beauty of Lakeland, Fla. soon will become the first coed to graduate from the University of Florida's Department of Building Construction. Ann, a blue-eyed blonde, is also the only woman even to be inited blonde, is also the only woman even to be interested blooding Lambo Chi, the field's national honorary scholastic fraternity. (AP Wire-

Photo processes help electronics

Students at A&M's Institute of Electronic Science are finding they can be creative while learning modern electronic methods.

The Engineering Extension Service school trains technicians ed with Kodak Photo Resist Type through its 18-month school at the Research Annex.

circuit boards was begun this semester to give the students a future. better understanding of current industry practices.

"It also has given each student pride in doing his own work from design through circuit board construction," Cogburn noted.

He expects 34 second and third semester students to complete the photographic course within the next two months.

Students begin with the circuit diagram and produce a crude layout from three to five times larger than actual requirements.

The crude layout is then precision drafted in blow-up size, similar to actual commercial production. Each student is responsible for all layouts and design techniques.

CARD...

A hand-made copy stand and 4 by 5 inch press camera are used to make the reduction negative The negatives are contact print ed on copper circuit boards treat

The copper boards are pres-Instructor Onis J. Cogburn says ently developed in chemicals, but the photo-lithography process for a vapor degreaser process is on order and will be used in the

> Developed boards are treated with a dye before being etched by the standard copper etching

> Cogburn pointed out most the used photographic equipmen will be replaced and other equipment, including an enlarger, will

> The photographic process makes circuit board size only limited by the size of the negative, Cogburn said.

Students at the electronic school have studied printed cir cuits for over six years and prior to the photographic process worked in groups on silk-scree processes.

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