Thursday, March 14, 1963 College Station, Texas Page 3

erties and similar materials

which serve as prototypes for the

synthetic polymeric materials.

Preliminary experiments already

ject in the field of physics by

Dr. Joe S. Ham, the supervisor

of the project, and his two grad-

uate assistants - Donald Ash-

burn and Brian De Facio. The

work is of space interest because

of the need for materials that

can serve reliably in great ex-

The several projects of the

special basic research program

for NASA, represent only a start

in providing data for the further

experimental needs of the space

effort. As foundations in equip-

ment and procedure are laid, the

endeavors will grow in scope

and productivity and their en-

vironment will bring forth new

undertakings in related and other

tremes of environment.

## Not Guilty Plea ion **Returned By Estes** ember of

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wild...which they knew could not could be induced to sign papers a land-lock imittee that

for Texas. out \$6 million on the deals. ot see the ritime indus industries. ank deal with Estes that they re overlook that should be his a wort

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nutes to read the charges. As the trial got underway Estes | land Agriculture." ced the prospect of hearing

ree former close business assomee pleaded guilty earlier to the n opening statements, Assistant

**five Students** cholarships

ive students have been award-

They received Thomas W. Le- genetics here. Scholarship Fund awards at neeting of the Accounting Sol was established, made th faculty in 1922, retired as head he Division of Business Admin.

EL PASO, Tex (P) - A federal U. S. Atty. Gen. Rufus D. McLean t jury heard first testimony told the jury, "We're trying Billie Refresslay in the mail fraud and Sol Estes and no other persons." Management of Billie Sol Estes ....HE SAID THE government will after the one-time promoter plead- prove that Estes conspired with the three former associates and

And Estes' defense 'attorney The Superior Manufacturing Co. to don Cofer defended fertilizer tank use the mails to defraud and to se-purchase agreements that transport securities obtained by gue strongly in the indictments. fraud from state to state.

IN HIS OPENING remarks to McLean said that in support of these the government will prove mies loaned approximately \$22 assorted "overt acts" and that graduate students who utilize ion on a number of tanks that "he Estes devised the scheme to wild have fertilized the entire defraud persons and firms that thesis and dissertation pursuits.

for purchase and lease of fertilizer These companies, he said, made tanks and equipment."

## A Midland geologist, the first and only witness heard Wednesby only writess include and his by, testified that he and his invitates entered into a fertilizer Slated To Speak thught contained some element At Convocation

However, he said, Estes told An Oklahoma agronomist will be num he would see to it they guest speaker at the Student Agriwould never become obligated for culture Convocation on March 25 in the Ballroom of the Memorial Stu-ESTES EARLIER in the day dent Center.

uffered four straight setbacks as Jack R. Harlan of Oklahoma attorneys entered a series of State University will speak on motions shortly after a jury of 10 "Agriculture Perspectives."

a his side, the poker-faced West has a B.S. degree in botany from practices at colleges and universievan uttered a mere "not guilty" George Washington University, ties then asked how he pleaded after whe count was read to the court. He stared solemnly at the jury. all together, the state took 27 technical papers and one book, case, yet each came to the same

tes testify against him. The Egg Clinic Slates me charges on which Estes is Three Speakers

Three out-of-state speakers will be featured on the Commercial Egg Ulinic more more than 100 mercial Egg Win Accounting William E. Shaklee of the U. S. ognizes the Darwins that flower after college." Clinic program March 27.

Reting of the Accounting So-r. Leland, in whose honor the Journalism Dept. entations. Leland, who joined Announces New Graduate Courses

mored were James E. Lewis Delbert McGuire, head of the Association of State Colleges and Hume W. Reeves Jr. of Bryan, Department of Journalism, has an- Universities last month in Chicago. is R. Bedrich of Burlington, nounced that two new journalism And two new studies support

## Data, Practice Goals Of NASA Grant Both data and scientific practice are end products in a spaceoriented basic research program supported by a special National Aeronautics and Space Administration grant to A&M. The grant covers work in the physical, life

FOR SIX PROJECTS

THE BATTALION

and engineering sciences. The six projects of the A&M program are supervised by faculty members and staffed by phases of the undertakings as The space-oriented projects deal with plasma acceleration, heat transfer from plasma jets, waste stabilization to provide potable water, scattering of pulsed laser radiation from plasmas, solution of differential equations with coefficients arising in the quantum mechanics of

**Educators** Criticize **College** Admissions

(Special To The Battalion) | scores at the time of admission, WASHINGTON-A biologist and found they did as well or better

"Theory and Dynamics of Grass- conclusion - many students who could profit from a college education are barred from pursuing it by selective admissions practices.

"BECAUSE OF the sudden increase in world population, universities are now taking only the students with high grades," said Dr. John Tyler Bonner, Princeton From Three Areas University biology professor. "One

Department of Agriculture, and "We waste a million kids a year," Dr. R. H. Shrode, geneticist with said Dr. Ernest O. Melby, disting-DeKalb Agricultural Association, uished professor of education at Michigan State University. "We Ota is an agricultural engineer, admit students largely by grades 250 scholarships in recognition Shaklee is with the Co-operative and measures of verbal intellimtstanding records as account- State Experiment Station Service gence, yet current studies show and Shrode is a former teacher of that high I.Q. students are not necessarily those most creative."

"THE PUBLIC college system that shuts its doors to a student must be sure he cannot progress, that his intellectual difficulties cannot be cured," Dr. James E. Russell, secretary of the National Education Association's Education al Policies Commission, told the

the atom and study of the detailed crystalline properties of polyethylene and similar materials which serve as prototypes for the synthetic polymeric materials. They are being administered by the Texas Engineering

Mechanical engineering research in plasma acceleration is being conducted by Dr. Earl Logan Jr. to determine the maximum possible specific impulse and energy efficiency which can be realized from the traveling wave accelerator for a particular geometry. Graduate students Jose Jullienne and Bannister Farquhar are assisting in this work to provide ideal propellant velocities for space missions in electrodeless accelerator opera-

In chemical engineering the space-oriented work consists of measuring heat transfer coefficients from a plasma jet in the interest of removing heat for power utilization, quenching a

Waste stabilization to provide water for an astronaut and bomb shelters is being pursued by Dr. W. W. Meinke, associate professor of chemical engineering, and J. H. Sorrels, professor of sanitary engineering, in research involving chelations and metal ion antagonisms in closed systems. A small water recovery system with anerobic and aerobic digestion tanks, filter and effluent tubes has been built. The general effectiveness of the unit and factors of diet and medica-

the study of the properties of a plasma inferred from the light scattered from the plasma. A plasma will be irradiated with laser light and the scattered light have been conducted on this subobserved as a function of scattering angle, frequency shift and intensity.

Mathematical research on differential equations with periodic coefficients, better designated as differential equations invariant under certain transformation groups, was recently begun by Dr. Ernest R. Keown and graduate assistant Charles W. Conatser. The research will deal with numerical procedures for the solution of such differential equations. The point of departure will be the investigation of certain differential equations of this nature arising in the quantum mechanics of the atom.

The sixth and newest project under the NASA grant is a study of the detailed crystalline prop-

fields, the Texas Engineering Experiment Station advises. 

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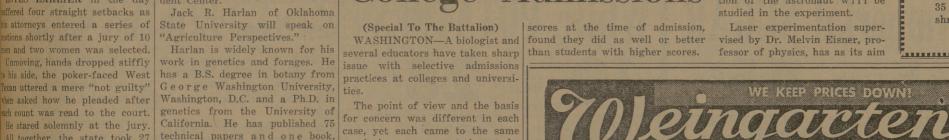
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Peaches	FOOD CL Sliced or Hal	-UB Ives I	No. 2 1-1	2 Can	2	3	C
CORN Food Club Golden, Cream Style	7 <sup>303</sup> <b>S1.00</b>	PORK & BI	EANS B	ina rand	3 No	. 300 20 Cans 20	ic
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chemical reaction or control. Variations of the coefficient with the enthalpy driving force, flow rate and physical properties of the plasma will also be studied in an effort to produce a reliable correlation. P. T. Eubank and graduate student J. R. Johnson

are conducting the research.

tion of the astronaut will be

