Graduate Dean Joins OTS Board



SKY SNOOPING

Texas A&M sophomore Dave Swann of Dallas lines up his telescope for a sunless session. The amateur astronomer has reported 1,600 sightings to the American Meteor Society, of which he is a member.

Under the grant, studies will be

"SPACECRAFT ENTERING

planetary atmospheres cause a

shock wave and high tempera-

tures," Dr. Thomas explained.

"Diatomic molecules thus heated

fly apart. It is important to know the rate at which this happens

and how the rate is affected by

The scientist said molecular

changes affect lift and drag

forces and heat transfer rate on

Solid fuel rocket engine pro-

pellants utilize metal fragments

to improve performance, Thomas

simple mixtures in the Sandia re-

search, we will begin to learn how

to describe the more complex

processes occurring in the nozzle

of a solid fuel rocket engine," he

"WE WILL study principally

the affect of aluminum vapors on

nitrogen," the project director

He said several basic chemical

and physics problems must be

solved in order to carry out ex-

Other special equipment to be

used includes a four-foot by 14-

inch test chamber and spectro-

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"Through study of relatively

metal elements present."

added.

went on.

noted.

periments.

Aerospace Engineering Gets \$21,000 Research Grant

A \$21,000 Sandia Corporation engineering students Gary Hawgrant to Texas A&M has been kins of El Paso, James Reed of announced by Harry E. Whit- Festus, Mo., and Alton Stephens more, Space Technology Division of Beaumont, Thomas said.

The one-year Sandia grant made to determine the effects of funds research work in the Gas metal vapors on reaction charac-Dynamics Lab 12-inch arc-driven teristics of gases like nitrogen shock tube at the Research Annex. and oxygen.

Dr. Richard E. Thomas, professor of aeropace engineering, heads the project. The research will employ graduate aerospace

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"CAT ON A HOT TIN ROOF"

No. 2 "BUTTERFIELD 8"

Swan Misses Sack Time For Astronomy Studies

The amateur astronomer lec-

tured on meteors and stellar

freshman at A&M. The class,

Physics 314, is normally a junior

course, but Swann was allowed to

take it as a "fish" because of his

"I THINK HIS educational

plan is wise," noted Dr. Nelson

M. Duller, A&M physics professor

who taught Swann in 314. "By

getting a physics degree at A&M,

he will have excellent ground

background.

sophomore from Dallas.

The amateur astronomer has given up about 1,000 hours of sack time since he became interested in the celestial panorama four years ago.

The 19-year-old student wants to make the night-time hours his regular working schedule after he receives his physics degree at A&M. He then plans graduate study at a school specializing in astronomy.

"I've wanted to do serious astronomical work since I was in grade school," the slender, brownhaired student remarked.

About 350 hours of his sunless sessions have been devoted to scientific meteor observation. Since he started tracking the brilliant flashes in 1962, Swann has logged more than 1,600

AMONG THE 700 charted this year was the recent brilliant Leonid display. Swann's decision to attend A&M assured him a chance to see the Leonids, since the 1966 shower was observed only in the Southwest.

He is a member of the Rhode Island Meteor Research Organization and was the only person in that group who viewed the phenomenon, because of overcast skies on the East Coast. The cadet joined the Rhode Island group while attending Keystone Oaks High in Pittsburgh. He also is a member of the American Meteor

Swann, son of Mr. and Mrs. Herman L. Swann, 9305 Larchwood Drive, Dallas, has viewed the stars from High Point, N. C.; Norfolk, Va.; Annapolis, Md.; Washington, D. C.; Lewes, Del.; Pittsburgh and the Canal Zone.

HIS FATHER is with Continental Electronics of Dallas and was formerly a Navy technician. The elder Swan first interested David and his older brother, Herman, a veterinary medicine student at A&M, in star-gazing when the family resided in Pittsburgh. While there, he studied stellar classes at the Allegheny Observatory, which houses a 31-inch refractor, fifth largest in the world. The blue-eyed Army ROTC

TTI Official At Kansas Meeting

Prof. Charles J. Keese, executive officer of the Texas Transportation Institute at Texas A&M University, is participating in the 52nd annual meeting of the American Association of State Highway Officials being held this week in Wichita, Kans. During the sessions involving design, Keese will address the delegates on "The Break-Away Sign Support Project."

The project to provide safety in collisions with sign posts deals with break-away features and considers also windload effects for sign designs. It is being conducted in cooperation with 12 state highway departments and the U.S. Bureau of Public Roads.

M. D. Shelby, research coordinator at TTI, will attend a number of the AASHO sessions also.

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for David Swann, a Texas A&M fractor which he uses for nebular, which will be required in his later astronomical studies."

planetary, stellar and lunar viewclasses in a course he took as a for midnight vigils. He will probhis present areas of interestmeteors or star classification.

Swann's training is well under way, though. And his early evening alarm clock bell doesn't rouse his roommate, Mike Harvey of Fort Worth.

OFFICIAL NOTICE

All freshmen in the College of Liberal arts are to meet in Guion Hall, Thursday, December 1, at 4:00 p. m. 375tfn

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Virus Infection on Glucose Metabolism
in Nicotiana Tabacum L. var. Samsun
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Wayne C. Hall
Dean of Graduate Studies 374t2

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Missing sleep is a way of life cadet has his own three-inch re- work in physics and mathematics

"I haven't really decided what branch of astronomy I want to study," said the star-gazer who often recruits Company C-1 cadets ably do graduate work in one of

"Mike's a sound sleeper," Dave

Dr. Wayne C. Hall, academic vice president of Texas A&M University and dean of its graduate college, has been elected to

the board of directors of the Organization for Tropical Studies. OTS is composed of universities interested in the development of instructional and re-

search programs pertaining to the

tropics. The organization in the past has concentrated its efforts on tropical biology in Costa Rica, with graduate courses and research offered under a grant from the National Science Foundation.

A&M, which joined OTS last

year, will assume leadership in formulating plans and programs in the area of tropical meteorology.

Dean Hall's appointment to the three year-term on the OTS board was announced at a recent advisory council and board of directors meeting in New Orleans.

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