## Space Administration Eyes Tech Research

Possibilities of space research at Texas Tech were discussed here Monday by Tech officials and representatives of the National Aeronautics and Space Administration.

nautics and Space Administration. The four NASA representatives met in the morning with Tech President R. C. Goodwin and 22 other Tech executives, then spent in contract research and development. "NASA is dependent on educational institutions for its manpower and basic research," said Dr. Young, beginning spokesman for the delegation at the morning confederation at the morning confederation of the morning confederation of the morning confederation at the morning confederation at the morning confederation of the morning confederation at the morning confederation The four NASA representatives

dents; Dr. J. E. Hobson, planning and development director; and Dr. H. P. Burchfield, SRI chemist.

NASA has a \$3.5 billion budget contracts, NASA will make be-that may be increased soon to as tween four and five thousand fel-much as \$5 billion, representatives lowship grants per year, with the

of the space agency reported.

Eighty per cent of this will be spent in contract research and development.

gram, the representatives pointed

In addition to basic research

lowship grants per year, with the aim of eventually producing a thousand Ph.D.'s annually with backgrounds that will contribute to the space program as well as other scientific and industrial development.

other scientific and industrial development.

The NASA delegates described various aspects of the U.S. space program and invited Tech researchers to apply for grants in any area where they think they can make a contribution.

Ends of U.S. space research are as infinite as space itself, the NASA representatives said. Already in the planning stage are explorations to Mars and Venus and possible trips to planets so far away that a family which can reproduce itself enroute may be required so the second generation can complete the journey.

NASA has asked the delegation of SRI researchers to visit educa-

NASA has asked the deregation of SRI researchers to visit educational institutions throughout the Southwest, with a special attention to be given to research that will tie in with developments at NASA projects in Houston.



MEXICAN (UGH!) MAMBO

... at Tech Union tomorrow will feature an act by Sylvia mirez entitled "Mambo Number 5," exhibition dancing, din and music by Bob Lamont and orchestra. (See story page 3.) an act by Sylvia Ra-

### Panhellenic To Offer Summer Fashion Show

A fashion preview — clothes furnished by Margaret's and modeled
ta; Betsy Kaiser, Pi Beta Phi;
by Tech coeds — will bring the Karla Dickson, Gamma Phi Beta;
fashion word to the campus in the
City Panhellenic Style Show at 2 Kaln, Alpha Epsilon Phi; Betty
p.m. Aug. 8 in the Tech Union
Moshier, Kappa Kappa Gamma.

Tickets for the show are SI and

Tickets for the show are \$1 and

Coeds who are expected to mod-Coeds who are expected to model and their sororities are Shelley
White, Alpha Chi Omega; Lynda renowned Milton scholar, will be a Ryno, Alpha Phi; Betty Trip, Delta Gamma; Linda Montgomery, English department their Shelley He will teach two seminar visiting professor in the Texas Tech courses—"Studies in English Literator ature of the Seventeenth Century," Sigma Kappa; Karen Parks, Delta Dr. Hanford, now at Princeton the Shelley He will teach two seminar visiting professor in the Texas Tech courses—"Studies in English Literator ature of the Seventeenth Century," Sigma Kappa; Karen Parks, Delta University, will teach two seminar visit emphasis on John Milton and Zeta; Karen Hoelschet, Zeta Tau Alpha; Mary Harrison, Phi Mu; courses during the fall semester. In addition to teaching, Dr. Hanford, world English department, said.

He will teach two seminar visit the professor in the Texas Tech courses—"Studies in English Literator ature of the Seventeenth Century," in the Port of the Seventeenth Century, and the professor in the Texas Tech visiting professor in the Texas Tech visit the visit the visi

Vol. 37

## are now on sale at Margaret's. Modeling the fall fashions will be 14 Teeh girls, each representing her sorority. Renowned Scholar To Teach Here

consultant to R. C. Janeway, Tech seminar library director, and will present ish Liter- several public lectures during the Century," fall.

A past president of the Modern Language Assn., Dr. Hanford is called by many the foremost authority on Milton today.

As a visiting professor he has taught at Harvard, Princeton, Columbia, the Universities of Texas, Chicago, California and Damascus, Syria's national university.

His major contribution to the study of Milton has been his Handbook on Milton, first published in 1926. The book has been widely used as a textbook in America and England. His other books on the

See RENOWNED, Page 2



# Group Plans 6-Volume History He has been professor of English at Simmons College in Boston, Western Reserve University and the Universities of North Carolina and Michigan.



SIX WRITERS, SIX VOLUMES

... of Texas history are planned with each writer, faculty members of Tech's history department, contributing one volume. The comprehensive work will be written "for enjoyment as well as enlightenment." It is the first multi-volume cooperative history

Six Texas Tech faculty members will team up to write a six-volume narrative history of Texas.

The project is one of the most extensive ever undertaken in Texas history. It is the first coopera-tive multi-volume history of the state.

It probably is the first major work of its type with all the au-thors at one institution. This will allow many conferences and sug-gestions that would be impossible

Texas Tech's Athletic Business are available on a season basis, Office, busy with season football but the purchaser can't renew in ticket sales, is facing another purchases. The volumes will range from the first Spanish probes into Texas in the 1500's to modern times. The writers will attempt to emphasize the lively, significant events and personalities in Texas' development — all with the historian's accuracy. Footnotes will be avoided.

The first volume, by Faulk, will cover Spanish Texas from 1519 to 1810. Vigness will describe Mexican and colonial Texas and the Texas Revolution in volume two.

The Lone Star Republic, Mexican and colonial Texas and the Texas Revolution in volume two.

See HISTORY, Page 2

# otherwise. The authors are Dr. Ernest Wallace, Dr. David Vigness, Dr. S. S. McKay, Dr. Seymour V. Connor, Sylvan Dunn, and Odie Faulk. Publisher is Steck Co. of Austin. This will be history to enjoy as well as enlighten, the authors announced in a joint statement. "Too many historians write only" Texas Tech's Athletic Purious Booming-Polk Robison

#### Renowned Scholar..

(Continued from Page 1)

Dr. Hanford received the B.A. degree from the University of Rochester and the M.A. and Ph.D. degrees from Harvard. The Uni-

versity of North Carolina confer-English author include: John Mil. red an honorary Doctor of Laws ton. Englishman: The Poems of degree on him for his scholarly John Milton; and A Restoration compilations and interpretations which he began while there.

Dr. Hanford lists Thomas Wolfe, American novelist, and Paul Greene, playwright, among his famous stu-dents.





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### History ...

Un

d six lang sive travels:
An enjoy as she brir life with covast theatrence in a singing.
Her unich have found theatre an rision.

A native now makes and has rec States and

can War and early statehood are Connor's subjects in volume three. In volume four, Wallace will write about the Civil War, reconstruc-tion and the Indian frontier.

Dunn's narrative in volume five covers the last quarter of the 19th century, the bringing of law to the frontier and development of the ranching industry.

ranching industry.

The dramatic story of 20th century Texas' rapid growth and change will be told in the sixth volume by McKay.

The total list of books and articles by the team of Tech historians would exceed 100. It would include McKay's Seven Decades of the Texas Constitution and Wallace's widely - read Comanches, Lords of the South Plains.

It would range from Vigness' publications in Latin American history to Dunn's work on agricultural problems of the late 19th century.

Connor, author and editor of a

century.

Connor, author and editor of a number of works on the Texas Republic, is director of Tech's Southwest Collection as well as a history professor. Faulk, regarded as one of the region's most promising young historians, will receive his Ph.D. degree from Tech in August.

Each volume in the series will stand alone as a separate treatment of its period. The series is expected to be ready for publishing sometime in 1963. Connor will be editor for the project.

#### CAMPUS SECOND LARGEST

With 1,844 acres, Tech is reput-ed to be the second largest campus in America. Approximately 285 ac-res are in the campus property and are maintained by the Grounds



## Union Presents Dinner-Dance, Nina Dova

Dova, concert singer and guitarist, will present to Techsans an even-ing of delightful songs at 7:15 p.m. Aug. 2 in the Tech Union Ball-

1)

three.
If write instruction in the line fine in the line of the

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EST

Nina Dova has collected the songs for her musical repertoire of six languages from her exten-sive travels around the world.

An enjoyable evening is in store as she brings her performance to life with colorful costumes and her wast theatrical training and experi-ence in music, dramatics and

Her unique collection of songs-have found her a place in the theatre and on radio and tele-vision.

Her success in part has been attributed to her feeling for songs she sings and plays.

A native of England, Miss Dova now makes her home in New York and has recently toured the United States and Canada performing in concert series and in leading uni-

On the screen in the Tech Union this week will be the "Last Angry Man." An elderly doctor, played by Paul Muni, finds himself the victim of a television producer, portrayed by David Wayne, who is attempting to eash in on the humanitarianism.

The movie was an academy award nominee.

#### Miniature Golf Tourney

For miniature golfers — and would-be golfers, too—Tech Union has slated a miniature golf tournament, free to all who sign up.

Qualifying rounds will be played Aug. 10 and finals, Aug. 11. Dead-line for signing up at the news-stand of the Tech Union is Aug. 8.

Trophies and medals will be awarded to the top three winners in both the men and the women's division. A gift certificate will be division. A gift certificate will be presented to the top two winners.

The competition will be at the Twin Lakes Miniature Golf Course.

#### Square Dance Change

The square dance, originally scheduled for tonight in the Tech Union has been cancelled. There will be a square dance at 7 p.m. Tuesday. Instructions to the beginners, refreshments, lively music and professional calling — and it's all free.

### TECH ADS

FOR SALE: 1962 Corvette. Red interior, fully equipped. SW 9-4705. After 5,

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### 'Mexican Mambo' Rocks Union Tomorrow!



NINA DOVA

. . . famed international songstress-guitarist will appear next Thursday at 7:15 p.m. at Tech Union. Enhancing her performance of many songs from many countries with costume changes, Miss Dova has achieved international renown as a folk-singer.

can Mambo!

Mexican Mambo is something unner may come later for the dance.

Two floor shows are scheduled at the Tech Union. It's a dinner for 7:45 and 9:30 p.m.

On the menu are exchiladas with dance complete with all the trim-

Bob Lamont's orchestra will present the dance music, party favors ing. will be given to the young ladies, M entertainment will take the form of two floor shows, and Mexican timer on the Tech campus.

of two floor shows, and Mexican food is the menu.

Cost of the entire evening is only \$1.25 per person. Table reservations for one or two couples must be made by 5 p.m. today. Dress for the occasion is formal.

The dance, which is free, gets under way at 8:30 p.m. and the

Don't miss it! Don't miss Mexi- whole evening comes to an end at 11:30 p.m. Those not desiring din-

On the menu are enchiladas with chili, Spanish rice, guacamole salad, tostadas, pecan roll and coffee or tea. Cokes may be ordered all even-

Mexican Mambo and the idea be-

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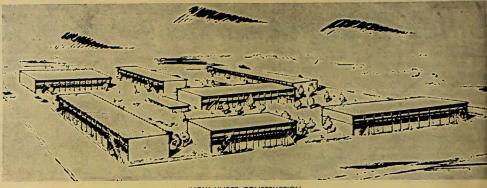
Good for ANY TWO (single patty) Hamburgers FOR THE PRICE OF ONE at either CHAR-KING Drive-Up Restaurant in Lubbock on FRIDAY, July 27, 1962, only. Limit two coupons per car. Not good for telephone orders, please.

#### Mathematician Speaks Today

An Australian mathematician will be a guest lecturer at Texas Tech's National Science Foundation mathematics institute this week.

He is Dr. T. G. Room, mathematics department head at the University of Sydney, Australia, who will speak today, Friday and Saturday to the institute partici-pants and the Tech mathematics

staff,
Today's lecture, which is open
to the public, will be at 3 pm. in
Room 126 of the air-conditioned
Classroom and Office Bldg. "Geometry, Prolegomena to Physics"
is the topic of the lecture, which
explains axiomatic development of
plane geometry by intrepretation
of physical relations.



NOW UNDER CONSTRUCTION

... are 200 apartments for Tech's married students. The \$1.3 million project calls for seven buildings to be located between Detroit and Elgin Streets and Second and Third Place, and for

the first units to be ready for occupancy by fall. Air-conditioned apartments will rent for about \$80 per month, bills paid. Eventually swimming pool will be added.

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### Tech Trains 'New' Engineers For American Industrial Scene

industrial engineer.

The classical engineer works with components. The industrial engineer is concerned with entire work systems including the men and women who operate them. Men, machines, increased productivity and lower costs are seen in an all-embracing perspective in this new field of engineering. The field developed before World War II but really sprouted its wings and became an important engineering segment within the past 10 years as more and more companies became interested in maintaining quality and lowering production cost.

Tech's industrial engineering de-

A new kind of engineer is coming into prominence in the American industrial scene these days through training at Texas Tech and other institutions. He is the industrial engineer.

The classical engineer works with components. The industrial engineer work systems including the men and women who operate them. Men, machines, increased productivity and lower costs are seen in an all-embracing perspective in this new field of engineering.

The field developed before the men and incoming the field developed before the materials, and equipment to do a better job and still maintain quality standards and stand mance of mines the facilities.

Dr. Richard A. Dudek, head of the Tech department, said the computer has taken its place alongside the slide rule as an immentativity and lower costs are seen in an all-embracing perspective in this new field of engineering.

The field developed before ity control.

The industrial engineer of today in the field and the surface of the Tech department, said the computer has taken its place alongside the slide rule as an immentative proportion of the industrial engineer who is concerned with the disciplination of integrated systems of men, has grown from and entrought to students in 1950 to 181 students and stand stand them and them was taken its place alongside the slide rule as an immentative properties of the Tech department, said the computer has taken its place alongside the slide rule as an immentative properties of the Tech department, said the computer has taken its place alongside the slide rule as an immentative properties.

The field developed before ity control.

The field developed before ity control.

The industrial engineer of today in the facilities.

The industrial engineer of today is most often employed in an ad-visory capacity, usually on the management staff of an organi-

in maintaining quality and lower-ing production cost.

In this capacity, he designs work systems which will allow the or-recht's industrial engineering de-ganization to obtain maximum partment, ranked in the top five

quality standards, sets schedule and standard times for the performance of specific jobs, and determines the layout of the physical

facilities.

The industrial engineer is use most widely in manufacturin fields, according to Dr. Dudek, bu contributes his knowledge to suc areas as engineering sales, farmanagement, home economic hospital work, surgery, hotel an restaurant operation, retail stor operation and other fields.

operation and other fields.

At Tech, the industrial engineer ing staff and students are carryin on research in such fields as work analysis, work management, production, analysis, control systems and systems management.

One of the important problem of work analysis is a more scientific definition and measurement system for human work. Directed to ward this end is research bein conducted by M. M. Ayoub to determine the accelerations, velocities, distances, and positions of body member in three dimension during the performance of an work task. during the

Another research project being conducted by Tech's IE depart ment is concerned with the devel opment of a method for determin opment of a method for determin-ing the minimum time sequence or any job schedule to be performed on many machines. Still other pro-jects are concerned with the an-alysis of the forces involved in machining for the purpose of de-signing better tools for automa-tion and in machining for new "space age" materials.

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### All Books -517,000-Now Moved

Texas Tech's library is "a home" in its new building.

The last of Tech's 517,000 books and other volumes were moved in to the striking new five-story li brary building Friday.

bothe striking new investory in brary building Friday.

All of them were available to students, faculty and staff and other users Monday. For the passeveral weeks, users have had togo either to the old library or the new, depending on the status of the move.

Summer hours for the new library are now 7:10 a.m. to 10 p.m. Monday through Thursday, 7:10 a.m. to 5 p.m. Friday and Saturday. The building is closed on Sunday.

Librarian Ray Janeway and his staff celebrated the end of the move Friday with the cutting of a large white cake. Incribed in it were the words "at long, long, long last."