



# The Museum News

Texas Technological College

Lubbock, Texas

Volume 4, Number 3

January 1954

## LEONARDO DA VINCI EXHIBIT

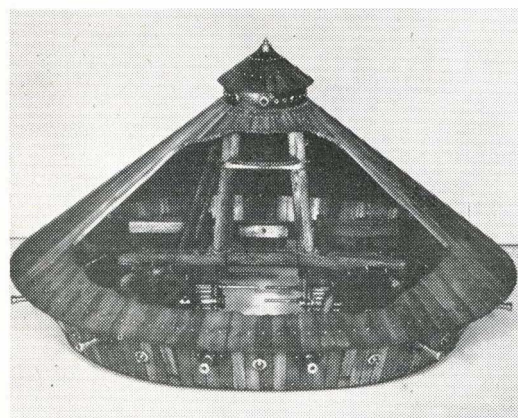
Half a thousand years ago, the man who foresaw the helicopter, machine gun, airplane, parachute, air conditioner and many other things that make our lives by turns comfortable and perilous, was born in the little Italian town of Vinci.

His name?—Leonardo da Vinci. You may know him better as the artist who painted the **Mona Lisa** and the **Last Supper**. His less familiar side, as the most prolific inventor the world has seen, will be vividly presented by a series of twenty-six models made from his scientific drawings, to be displayed April 11 to May 16 in the Art Gallery at The Museum on the Tech campus. This is one of four shows now touring museums and universities throughout the country. The exhibits have visited such institutions as the Franklin Institute in Philadelphia, Chicago Museum of Science and Industry, Boston Museum of Science, Massachusetts Institute of Technology, Nelson Gallery in Kansas City, Metropolitan Museum of Art in New York, the University of California and many others.

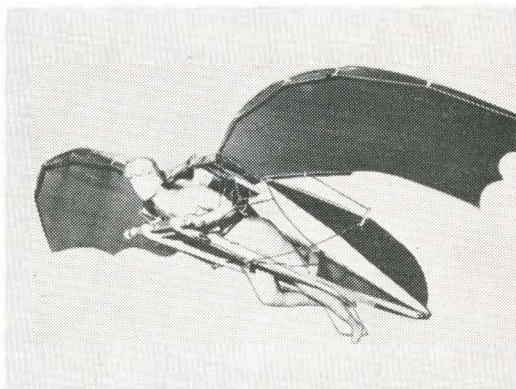
The models come from the Fine Arts Department of International Business Machines Corporation and were constructed by a foremost Leonardo authority, Dr. Roberto Guatelli, after years of study and research. The Leonardo models will be a special feature of the Engineering Show on April 23 and 24. Mr. C. E. Merkt, Manager of the Lubbock IBM office and Mr. H. J. McKenzie of the Industrial Engineering Department at Tech were influential in securing the following models of Leonardo's inventions for the show:

anemometer, automatic drum, bilge pump, canal lock, clock mechanism, double hull for a ship, file cutter, flying machine, gun carriage, hasty construction bridge, hydraulic screw, hygrometer, inclinometer, jack, machine gun (10-barrel), military tank, mirror polisher, motion study, nap raiser, odometer, parachute, roller bearing mounting, testing device, tool for threading, ventilator and weather vane.

Suspended above The Museum Rotunda will be the most spectacular invention of all, Leonardo's ornithopter or flying machine. It may have been built and tried out, presumably with a lot less success than a later effort by the Wright brothers. It consists of a wooden frame, two huge wings, a series of ropes and pulleys and a windlass. Lying prone in the frame, his feet in leather stirrups connected by pulleys with the wings, the flyer could move his feet up and down to flap the wings. At the same time, he could



*Enclosed tank with breechloading cannon (cut-away view). Its mobility was based on four independent wheels driven by manpower.*



*Leonardo da Vinci's airplane, invented in the 1500's consisted of a wooden board, two huge wings, a series of ropes and pulleys and a windlass.*

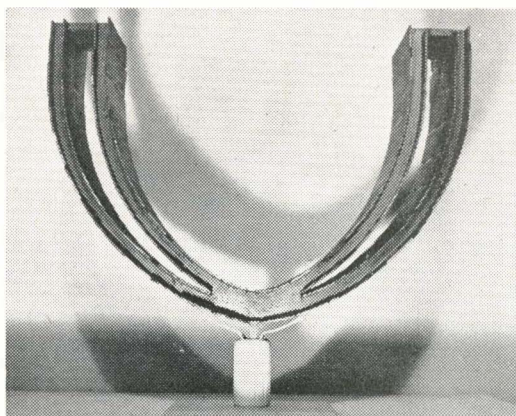
HOURS, Monday-Friday  
Saturday  
Sunday

8 AM-5PM  
8 AM-12 Noon  
2-6 PM

Admission Free Every Day

Closed All Holidays





*Double hull for a ship.*

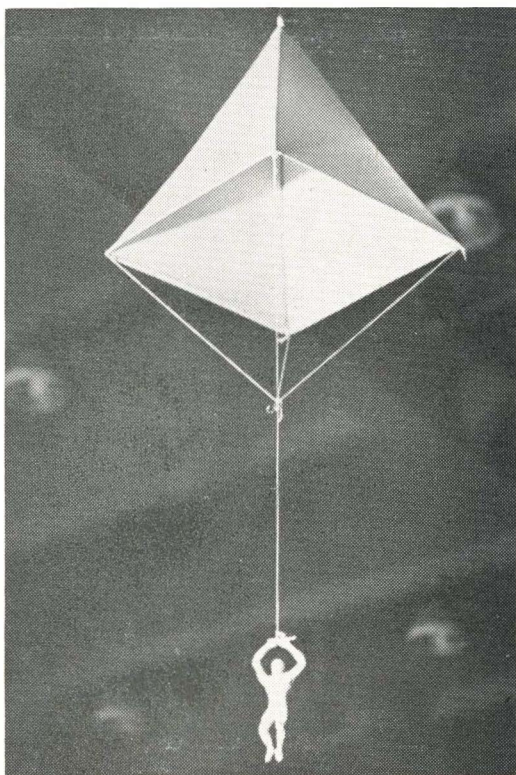
operate the windlass with his arms and guide the machine.

Leonardo's "helicopter" was a huge aerial screw run by clock-work. His design is considered by many authorities to be the forerunner of the modern propeller. One of his proposed machine-guns consisted of three tiers of twelve barrels each, the tiers arranged in a triangular shape so that one might be fired while another was being loaded and a third was cooling. He designed a double-hulled ship that would stay afloat in battle even when an enemy damaged the outer hull. So ran the profusion of his ideas.

Some of the machines actually used with success in Leonardo's time included a steam gun, which is said by some authorities to have fired its projectiles two miles. The parachute, a pyramid shaped "tent of linen" to use Leonardo's phrase, probably was tried out from a tower built especially for the purpose. According to a news story dated April 6, 1952, technical students in the Netherlands made a parachute exactly to Leonardo's specifications. A life-size doll and the parachute were

dropped from a 150 foot church steeple. Duration of descent was 5 minutes. An excavating machine, a wholly practical and prosaic device consisting of a large crane with a series of pivoting arms which supported loading cages, Leonardo's improved printing press in which a movable bed of type was carried under the platen for the first time, and an air-conditioning unit that was built for the boudoir of Beatrice d'Este, wife of Leonardo's patron, all saw everyday use.

The models were originally constructed under Dr. Guatelli's supervision for the 1938 exhibition of Leonardo's work in Milan, Italy. During the war, in Tokyo, they were completely destroyed by bombs and Dr. Guatelli, who had accompanied the exhibit to Japan, was confined in a concentration camp. When he returned to the United States he began work on another set of models, the one which IBM acquired in 1951. Twenty-six of the most extraordinary of the scale models may be inspected and operated by visitors at the show in The Museum this spring.



*Leonardo's parachute was a "tent of linnen" and successful.*

#### **GROUP TOURS FOR**

#### **THE LEONARDO DA VINCI SHOW**

will be given by volunteers from the Lubbock Junior Welfare League and the Pi Phi group on the campus. Reservations for tours may be made by calling The Museum Secretary, 5-8541, Ext. 344 at least a week or ten days in advance.

# TEAR OFF CALENDAR

## JANUARY

Wednesday	6	Audubon Lecture and color film, "Newfoundland" by Dick Bird, 8 p.m., <b>Auditorium.</b>
Thursday	7	"Southwestern Architecture," illustrated lecture, Dr. Elizabeth Skidmore Sasser, 8 p.m., <b>Auditorium.</b>
Thursday	7-31	"Southwestern Architecture," John Gaw Meem Retrospective Exhibition, Museum of New Mexico Exhibit, <b>Art Gallery.</b>
Saturday	9	Registration and first class for winter Children's and Junior Art Workshop and exhibit of work from the fall Workshops, 9 to 10 a.m., <b>Historical Gallery.</b>
Sunday	17	Twilight Music Hour, <b>Opera Once Over Lightly</b> , "La Traviata," 4 p.m., <b>Auditorium.</b>

## FEBRUARY

Sunday	7-12	"Albuquerque Artists" Museum of New Mexico Exhibit, <b>Rotunda Gallery.</b>
Sunday	7	Twilight Music Hour, "Program of Instrumental Music," Mr. Robert Taylor, 4 p.m., <b>Auditorium.</b>
Wednesday	17	Audubon Lecture and color film, "Secrets of the Sea," by G. Clifford Carl, 8 p.m., <b>Auditorium.</b>
Sunday	21	Twilight Music Hour, <b>Opera Once Over Lightly</b> , "Aida," 4 p.m., <b>Auditorium.</b>

## MARCH

Monday	1-11	Texas Fine Arts Show, sponsored by South Plains Art Guild, <b>Art Gallery.</b>
Sunday	7	Twilight Music Hour, William A. Murphy, pianist, 4 p.m., <b>Auditorium.</b>
Thursday	11- April 4	"Public School Art by Children of Hiroshima, Japan and Santa Fe, New Mexico," Museum of New Mexico Exhibit, <b>Rotunda Gallery.</b>
Thursday	11	Art Roundtable "Art and Your Child," with Miss Ruth Uhler, Curator of Education, Museum of Fine Arts., Houston, 8 p.m. <b>Auditorium.</b>
Thursday	14- April 4	"Lubbock Public Schools Art Show," <b>Art Gallery.</b>
Saturday	20	Registration and first class for spring Children's and Junior Art Workshops, 9-10 a.m., <b>Historical Gallery.</b>
Sunday	21	Twilight Music Hour, <b>Opera Once Over Lightly</b> , "Faust," 4 p.m., <b>Auditorium.</b>

## APRIL

Sunday	4	Twilight Music Hour, Charles Kelley, tenor, and Mrs. Wesley Quinn, pianist, of Clovis, New Mexico, 4 p.m., <b>Auditorium.</b>
Sunday	11- May 16	Leonardo da Vinci Models, show from International Business Machines Corporation, <b>Art Gallery.</b>
Sunday	11	Special Easter program, 2 to 6 p.m., <b>Planetarium.</b>
Monday	12	Special Easter program, 7:30 p.m., <b>Planetarium.</b>
Friday	16-19	Closed for Easter Holidays.
Friday	23	Audubon Lecture and color film, "Wanderland," by William H. Wagoner, Jr., 8 p.m., <b>Auditorium.</b>

## MAY

Sunday	2	Twilight Music Hour, Mr. and Mrs. Herbert Colvin, pianist and contralto, 4 p.m., <b>Auditorium.</b>
Sunday	16	Twilight Music Hour, <b>Opera Once Over Lightly</b> , "La Boheme," 4 p.m., <b>Auditorium.</b>
Monday	19-31	South Plains Art Guild Alcove Show, <b>Art Gallery.</b>
Monday	19-31	Show of Student's work, <b>Rotunda Gallery.</b>

\* \* \*

Planetarium Shows, "Winter and Spring Skies Over Texas," — Sundays 5 p.m.; Mondays 7:30 p.m.

Lubbock, Texas  
Texas Technological College



## CHILDREN'S AND JUNIOR ART WORKSHOPS

The Art Workshops will be conducted on Saturday mornings in the Historical Gallery of The Museum from 9 to 10 o'clock. The Children's class will be limited to 25 children from 5 through 8 years of age. Registration and the first class for both Workshops for the winter series will be held January 9, at which time an exhibit will be shown of work from the fall Workshop.

The Junior Art Workshop for the winter and spring series will be limited to children previously enrolled in the fall Workshop who are 9 through 11. In the summer the Workshop will be open to children who have not previously been enrolled, and who are 9 through 11 years. Those wishing to enroll in the summer Children's and Junior Workshops should call The Museum Secretary and put their names on the waiting list.

In the Children's Art Workshop clay modeling, water color and tempera painting will be featured, while in the Junior class the children will make marionettes, and paint scenery for the marionette stage.

The winter classes will conclude on

## TREASURE OF THE MONTH

**DECEMBER**—Displayed during December as the Treasure of the Month were three Inca Portrait Pots, a loan by Miss Kate Rogers, now of New York City, former instructor in Applied Arts Department at Tech. Miss Rogers' grandfather, Fleetwood Gruver, obtained these three handsome clay pots from the Lake Titicaca area of Peru in the 1890's. The pots are of Chimu workmanship and were made between the 13th and 16th centuries. Chimu portrait pots of this type were usually found in tombs of the nobles and were only for ornamental purposes.

The red pot shows a helmeted warrior seated cross-legged holding a mace and may represent the Thunder Bird. The black clay pot shows a human face molded into the neck. Arms are raised to the head to form handles. Another red pot is circular with human head surmounting the oval. Holes were pierced in the ears for ear-rings.

March 13, and the spring classes will begin March 20 and end May 22. Instructors will be Mrs. Ruth Read, Mrs. Connie Dowling, Patsy Donn and Pat Allgood.





# The Museum News

Texas Technological College

Lubbock, Texas

Volume 5, Number 1

June, 1954

## WHAT IN THE WORLD?

For fun, match the objects on these two pages with the names below. Sketches are from collections at The Museum.

Lacquered Tarascan mask, Michoacan, Mexico; Comanche moccasins, Cache Creek, Oklahoma; Ancient Eskimo doll of carved ivory and fur, Twiggillingok, Alaska; White Mountain Apache basket, Mayer, Arizona; Royal Hawaiian necklace of braided human hair and whale tooth ornament, Island of Oahu; Constellation of the Indian Funeral Procession, Museum Planetarium; Red catlinite and silver inlay Comanche Ceremonial Pipe, Anadarko, Oklahoma; Water pumped from Pliocene sands, South Plains; Yaqui Fariseo Dancer's mask, painted on goat skin, Sonora, Mexico; Carved Feast Spoon of mountain goat horn, Tsimshian, British Columbia, Canada; Kit Carson's scalping knife, bone handle, New Mexico; Peter Hurd's Paint Palette and Trowel used for Rotunda Fresco, The Museum; Carved ceremonial rattle, Klallam, British Columbia, Canada.

These and other attractive and unusual objects will be brought from Museum collections and displayed for guests at special programs being offered to clubs at The Museum next season. Make your reservations early.

## PROGRAMS INCLUDE

- Display and description of objects by Museum Lecturer.
- Films or colored slides.
- Indian Music, "Ethnic Folkways" recordings.
- Recordings from the "Ways of Mankind" series for the Hopi, Tlingit and Alaska programs.

Above program approximately 55 minutes, presented in The Museum Auditorium (250 seats).

## OPTIONAL

- ★ Panel or discussion by club members—15 minutes.
- ★ Tour of one gallery and description of Fresco by volunteer guide—45 minutes.

## RESERVATIONS

Must be made by September 1, 1954, and January 1, 1955.

The Museum cordially invites your club to make reservations for as many of these



*An Indian dancer's mask?*

programs as you wish. A \$5.00 Program Fee is necessary for each program and should be included with your written reservation request. Reservations will be accepted in the order in which they are received. Please give choice of two dates.

## DATES

Monday through Friday, 10-12 A.M. and 1-5 P.M. are days and hours programs are available, except for national holidays and the Christmas, Thanksgiving and Easter vacations. (Evening programs will not be offered this season.)

## LUNCHEONS AND TEAS

- Attractive luncheons and teas in the new Student Union Building can be arranged for clubs. Write Mr. Bill Scott, Tech Station, Lubbock, Texas for menus, prices and reservations.

## WRITE

Mrs. W. C. Holden, The Museum, Tech Station, Lubbock, Texas for program reservations.

## PROGRAM SUGGESTIONS TEXIAN TIMES

Each Texas History Program includes: "The Deguello"—Santa Anna's bugle call that sounded the fall of the Alamo. "Texas and Its Natural Resources" a film in color with sound. 40 minutes.

Display of objects and discussion by lecturer with choice of the following themes. Please state your choice: Law and Disorder, Book Larnin', Tall Texians, Hoop Skirts and Sidesaddles, Dug-Out Days, and Prairie Music.

## INDIANS OF THE SOUTHWEST

### The Hopi

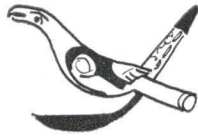
DISPLAY: Hopi religious objects, arts and crafts from The Museum Collections.

FILM: "Hopi Arts and Crafts," 10 minutes,

HOURS, Monday-Friday 8 AM-5 PM  
Saturday 8 AM-12 Noon  
Sunday 2-6 PM

*Admission Free Every Day*

*Closed All Holidays*



color and sound.

**MUSIC:** Hopi music including chants.

**RECORDING:** "Ways of Mankind" series.

#### **The Navajo**

**DISPLAY:** Navajo arts, crafts, and costumes from The Museum collections.

**FILM:** "Navajo Indians," 10 minutes, color and sound.

**MUSIC:** Chants, including "Riding Song."

#### **Pueblo Indians of the Rio Grande**

**DISPLAY:** Examples of Pueblo basketry, painting, pottery, and religious objects from The Museum collections.

**FILM:** "The Pueblo Heritage," 20 minutes, color and sound.

**MUSIC:** Pueblo chants.

#### **Mescalero—Apache**

**DISPLAY:** Baskets and costumes from The Museum collections.

**FILM:** "Apache Indian," 10 minutes, color and sound.

**MUSIC:** Chants.

#### **INDIAN FASHION SHOW**

**DISPLAY:** North American Indian women's costumes, from sports to formal.

**SLIDES:** "Indian Fashion Show," in color with description by Dr. Frederic Douglas, Denver Art Museum, 45 minutes.

#### **TEXAS INDIANS**

##### **Comanche**

**DISPLAY:** Costumes, crafts and ceremonial objects.

**LECTURE:** "Lords of the Southern Plains," using exhibits and dioramas to illustrate.

**PHOTOGRAPHS AND SLIDES:** Ancient Comanche life.

#### **INDIANS OF THE NORTHWEST COAST**

##### **Tlingit**

**DISPLAY:** Arts and crafts from The Museum collections.

**FILM:** "The Loon's Necklace," 11 minutes, color and sound. Received Film Festival Award.

**RECORDING:** "Ways of Mankind" series.

#### **INDIANS OF MEXICO**

##### **Yaqui Indians of Sonora**

**DISPLAY:** Yaqui objects and costumes with reproduction of Yaqui arbor in The Museum Natural History Gallery.

**FILM:** "Yaqui Indians of Sonora," 30 minutes, color.

**MUSIC:** Music for Yaqui dances.

#### **Tarascan Indians of Michoacan**

**DISPLAY:** Costumes, pottery, copper work, masks, wood carvings, and textiles.

**FILM:** (choice) "Arts and Crafts of Mexico," 11 minutes, black and white, sound.

**SLIDES:** "Tarascan People and Crafts," 20 minutes, color.

**MUSIC:** Folk music of Mexico.

#### **ART IN THE AMERICAN HOME**

**DISPLAY:** Art for the home including prints, watercolors, oils, and reproductions from The Museum and The Art Institute collections, with discussion by Museum lecturer.

**FILM:** "Art in Motion," 14 minutes, color and sound film with excellent musical background.

#### **ROTUNDA FRESCO AT THE MUSEUM BY PETER HURD, N. A.**

**LECTURE:** "The Pioneer Fresco And The People In It," in The Museum Rotunda.

**FILM:** "Painting the Fresco Mural," 45 minutes color.  
Available January, 1955.

#### **LEGENDS IN THE SKIES**

**PLANETARIUM SHOW:** Lecture and demonstration.

No \$5.00 Program fee. By 50 cent individual admission only.

#### **ALASKA**

**DISPLAY:** Objects from The Museum's Eskimo collection.

**FILM:** (choice) "Alaska," 11 minutes, black and white, sound.

"Eskimo Children," 11 minutes, black and white, sound.

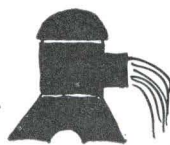
"Eskimo Seal Hunters," 20 minutes, black and white, sound.

**RECORDING:** "Ways of Mankind" series.

#### **HAWAII**

**DISPLAY:** Rare objects from The Museum's Ancient Hawaiian collection, including tapas worn by the royal family, first Bible translated into native language, royal necklace of braided human hair, with whale's tooth ornament and tapa beaters.

**FILM:** "Beautiful Hawaii," 55 minutes, color and sound.



# TEAR OFF CALENDAR

## M A Y

**Sunday**      **30**      "Watercolor Demonstration" by Bror Utter, 2:15 p.m., sponsored by South Plains Art Guild, **Auditorium.**

## J U N E

**Tuesday**      **1-30**      "Paintings by Bror Utter of Fort Worth," sponsored by South Plains Art Guild, **Rotunda Gallery.**

**Tuesday**      **1-30**      "Reproductions for the School Classroom" from the collections of the Art Institute, **Art Gallery.**

**Sunday**      **6**      Twilight Music Hour, Kent Jones, pianist of Sterling City, 4 p.m., **Auditorium.**

**Sunday**      **6**      "Criticism of Paintings of S.P.A.G. Art Workshop Students" by Bror Utter, 2:15 p.m. **Auditorium.** Open to Public.

**Sunday**      **20**      Twilight Music Hour, "Woodwinds Group" from Summer Band School, 4 p.m., **Auditorium.**

## J U L Y

**Thursday**      **1-31**      American Federation of Arts Exhibition, **Rotunda Gallery.**

**Thursday**      **1-31**      Prints from the Collections of the Museum of Modern Art, New York, N.Y., and the National Gallery, Washington, D.C., **Art Gallery.**

**Sunday**      **4**      Museum closed.

**Sunday**      **18**      Twilight Music Hour, "Selections from Light Opera" Grace Goodwin, soprano, and Ira Schantz, tenor, 4 p.m., **Auditorium.**

## A U G U S T

**Sunday**      **8-21**      "Paintings and Sculpture" by Paul T. Roch of Pocatello, Idaho, **Rotunda Gallery.**

**Sunday**      **1-21**      Prints from the Collections of the Metropolitan Museum of Art, New York, N. Y., and Artext Prints, Inc., West Port, Conn., **Art Gallery.**

**Sunday**      **1**      Twilight Music Hour, "Summer Songs," Jean George, soprano and Everett George at the piano, 4 p.m., **Auditorium.**

**Sunday**      **15**      Twilight Music Hour, "Program of Organ Music," Gerre Hancock of Austin, 4 p.m., **Auditorium.**

\*      \*      \*

Museum to be closed from noon, August 21 to September 18.

**Planetarium Shows,**      "Summer Skies Over Texas,"—Sundays 5 p.m.; Mondays 7:30 p.m.

THE MUSEUM  
Texas Technological College  
Lubbock, Texas

#### AUDUBON FILM PROGRAM

Coy whales, flirtatious flamingoes, gay antelope and jolly brown bears will romp with other animals and birds through the five Audubon color films at the Saturday morning matinees which have been arranged especially for the children of Lubbock next season. The Boy Scouts, Girl Scouts and Campfire Girls will co-sponsor these exciting nature programs with The Museum. The greatest American and Canadian naturalist-photographers will bring the films and describe for the children the natural wonders and wildlife of the North American continent at 10 o'clock Saturday mornings at the Arnet-Benson Theater. Mr. Preston Smith has given the theater for these Audubon Screen Tours and radio station K.F.Y.O. is collaborating with the sponsoring agencies. Mr. Gordon Thompson will be in charge of publicity.

September is the month when Lubbock families can buy Audubon Screen Tour season tickets, at 50 cents for the Children's Saturday morning matinees and \$3.00 for adults, for the Family programs to be continued in The Museum Auditorium on three Friday evenings at 7:30 p.m. and two

Sunday afternoons at 4 p.m. Different films will be given for Children's matinees and Family programs. A \$2.00 child's season ticket can be purchased for the five Family programs. Place your orders now with The Museum Secretary for Children's matinee and Family tickets.

#### SUMMER STAR GAZING

Star Gazing this summer holds new excitement for Planetarium visitors. The Milky Way has been added to Planetarium skies and the gift of a 6 inch telescope of 56 to 112 power will enable Lubbock families to closely scrutinize the red planet of Mars as it swings nearer the earth on July 2 than at any time since 1941. The telescope will be installed at the rear of the Planetarium in June, and is a gift of Mr. Rogers Orr, Science Instructor at Lubbock High School.

Through the Orr telescope visitors may explore the heavens, bringing into focus Saturn and its rings, Jupiter and its moons, the mountains on the moon and the approach of Mars toward the earth.





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Volume 5, Number 2

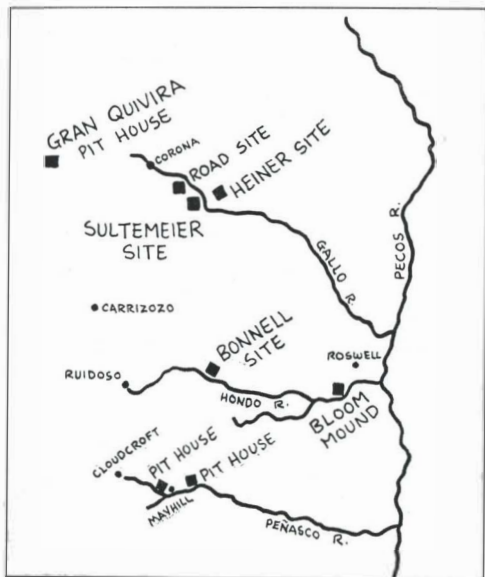
October, 1954

## ARCHEOLOGICAL FIELD SCHOOL 1954

The Museum's Field School of sixteen students under the direction of Miss Jane Holden, Dr. Earl Green and Dr. W. C. Holden, excavated eight archeological sites in southeastern New Mexico during July and August of 1954. The purpose of the work was to obtain more information in regard to the distribution of a sedentary, agricultural people who lived in southeastern New Mexico in pre-historic times and who made frequent excursions into the sand hills of West Texas. Three crews were kept in the field most of the time.

At the Bonnell site, on the Ruidosa River, three additional rooms were dug. One of the rooms had been burned and the soil on the roof had smothered out the fire after the roof had fallen, leaving a charred pattern of the roof construction. This is one of the most informative details that has come from the Bonnell site.

On the Gallo Arroyo, ten to twenty miles east of Corona, and about fifty miles north



Map of Area

## MURAL PRESENTATION TO THE SOUTH PLAINS

**Thursday, November 19, 1954  
8:30-10 P.M.**

**The Annual Meeting for Museum members will feature a reception for the artist, Peter Hurd, in the Rotunda Gallery, an exhibition, "Peter Hurd Paints a Mural" in the Art Gallery, and the color film "Painting a Fresco Mural" in the Auditorium. Admission by invitation only. Semi-formal.**

of the Ruidosa River, three sites were excavated. One, which was dug in cooperation with the Laboratory of Anthropology at Santa Fe, was an eleven room structure located in the middle of a cross-country highway. Two rooms of a Pueblo structure containing an estimated 70 rooms were excavated on the Frank Sultemeier Ranch. Six rooms of an estimated one hundred and twenty room pueblo was dug on the Carl Heimer Ranch.

The Bloom Mound on the Hondo River, twelve miles southwest of Roswell has been worked intermittently for a number of years by the Roswell Archeological Society, but no attempt has ever been made to fit the site into the regional cultural complex. With the permission of the Society and the cooperation of the New Mexico Military Institute, which has recently taken over the Mound, sample tests for comparative purposes were made. A large pit house, twenty by twenty feet was excavated. It is almost identical with the large pit houses found at the Bonnell site, only deeper. It was more than seven feet in depth. A smaller adobe room was also dug. It was part of a ten to twelve room adobe structure whose floor was nearly eight feet above that of the pit house. This adobe house has no counterpart at Bonnell, but is similar to numerous houses in the Gallo area.

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Saturday 8 AM-12 Noon  
Sunday 2-6 PM**

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Two pit houses were excavated near Mayhill on the Penasco River which rises just east of Cloudcroft and extends eastward to the Pecos River near Artesia. One house was a pre-pottery site and dated prior to 700 A.D. It was rectangular and about sixteen feet each way. The other house was circular, a pottery site, and sixteen feet in diameter, with a bench around the base of the wall.

A sixteen foot circular pit house was excavated two miles north of the National Monument of Gran Quivira, twenty-four miles southeast of Mountainair. The floor was five feet below the present surface and the site dates between 700 and 900 A.D.

A total of nine burials were recovered. In addition to the eight sites excavated, scores of others were found and classified upon the basis of surface artifacts.

Brief, generalized conclusions indicate that a sparse, semi-sedentary population occupied southeastern New Mexico between 700 and 1200 A.D. Between 1200 and 1450 A.D., climatic, economic and health conditions were exceedingly favorable, causing a great increase in population. At that time Anasazi (Pueblo) farmers migrated into the region from the northwest in large numbers, establishing hundreds of settlements, with multi-room rock or adobe houses. The Gallo Arroyo marked the southeastern frontier of these people.

It has long been an unanswered question as to what happened to the Mimbres



*Gran Quivira—Round pit house.*

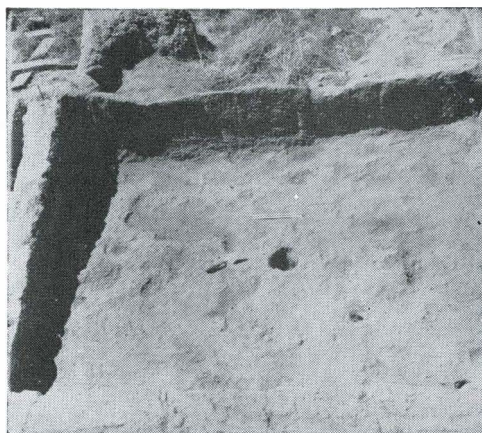
people. They were the makers of the most beautiful pottery ever designed in America. For lack of a better solution, it was thought that they went to Chihuahua before 1200 A.D. Relatively large quantities of the Mimbres pottery occur in the area worked by the Field School students and hence a partial answer to the Mimbres problem may have been found.

The people of southeastern New Mexico often came to the sand hills of West Texas for buffalo hunts. As a result, numerous camp sites around many lakes on the South Plains yield the same pottery as found in southeastern New Mexico.

About 1450, something drastic (perhaps drouth, or arrival of hostile neighbors, or both) happened. In a very short time all of southeastern New Mexico was abandoned by its sedentary inhabitants.



*Heiner Ranch Site—Block of rooms in northeast corner of site. Lu Dean Perkins, Tech student, seated in room.*



*Bloom Mound—Adobe walled surface structure.*

# TEAR OFF CALENDAR

## OCTOBER

- Sunday**      3      Hobby Show, Spurs from the collection of Joe Russell, San Angelo, **Historical Gallery**.  
Treasure of the Month. "Mementoes of Our Parents' Wedding," Mrs. Merle C. Hollingsworth and Mrs. A. G. Blankenship, Lubbock.
- "An Architect Designs" by Mike Stousland, Head of the Department of Architecture, Miami University, Oxford, Ohio. Sponsored by the Art Institute, **Rotunda Gallery**.
- Twilight Music Hour, OPERA AS YOU LIKE IT, "Carmen," by Bizet. Free to the public, 4 p.m., **Auditorium**.
- "Photographic Salon" sponsored by Lubbock Camera Club, **Art Gallery**.
- Friday**      15      "Fourth Annual Membership Show," sponsored by South Plains Art Guild. Reception 7:30-9 p.m., **Art Gallery**.
- Sunday**      17      Twilight Music Hour, "Pan American Fiesta," 4 p.m. Free to the public, **Auditorium**.
- Saturday**      23      Audubon Screen Tour, children's matinee, "Animals at Home" by Robert C. Hermes, 10 a.m. Sponsored by Boy and Girl Scouts, Camp Fire Girls and The Museum, **Arnett-Benson Theatre**.
- Sunday**      24      Audubon Screen Tour, family program, "Once Upon an Island" by Robert C. Hermes, 4 p.m., **Auditorium**.

## NOVEMBER

- Tuesday**      2      "Early New England Houses," a water color exhibition by Ralph Fanning, Columbus, Ohio. 8 a.m., **Rotunda Gallery**.
- Sunday**      7      Twilight Music Hour. OPERA AS YOU LIKT IT, "Otello" by Verdi. Free to the public, 4 p.m., **Auditorium**.
- Thursday**      18      Annual Meeting of West Texas Museum Association featuring "Dedication of Rotunda Mural, by Peter Hurd," 7-8 p.m., **Auditorium**. Opening of a special exhibition, "Peter Hurd Paints a Mural." Reception 8:30-10 p.m., **Art Gallery**.
- Sunday**      21      Twilight Music Hour in cooperation with the Allegro Music Club. "Program of Religious Music from all Faiths," 4 p.m. **First Christian Church**.

## DECEMBER

- Sunday**      5      Twilight Music Hour. special Christmas matinee for children, OPERA AS YOU LIKE IT, "Hansel and Gretel," by Humperdinck. Free to public, 4 p.m., **Auditorium**.
- Friday**      10      Audubon Screen Tour, family program, "Wing Havens," by Alexander Sprunt, Jr., 7:30 p.m., **Auditorium**.
- Saturday**      11      Audubon Screen Tour. children's matinee, "A Trip Outdoors," by Alexander Sprunt, Jr., 10 a.m., **Arnett-Benson Theatre**.

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Museum closed November 25-28 for Thanksgiving Holidays.

Museum closed December 22 (Noon) to January 3 for Christmas holidays.

**Planterium Shows:** Regular public demonstrations Sunday at 5 p.m. and Monday at 7:30 p.m. A special Christmas program will be given during December.



THE MUSEUM  
Texas Technological College  
Lubbock, Texas

## NEW SKY SHOWS

### Free to Museum Members

The addition of the Milky Way to the star projector last April and the arrival of the Sun, Moon and Planet projector this month make it possible to add to the planetarium programs the following titles:

#### OCTOBER

"The Solar Merry-go-round"—the Planets. A discussion of the nine planets of the Solar System using the new projector.

#### NOVEMBER

"The Romance of Perseus and Andromeda"—Legends of the autumn skies will be told as the constellations illustrating the stories are pointed out.

#### DECEMBER

"The First Christmas"—special Christmas program. The Star of Bethlehem will be discussed. Special Christmas music.

#### JANUARY

"The Mighty Hunter"—the constellation of Orion. Stars, nebula, path through the sky, literary significance, and mythology.

#### FEBRUARY

"Long, Long Ago . . ."—A program of American Indian sky legends.

#### MARCH 1-26

"Our Calendar and the Moon"—the his-

torical development of the calendar including a description of the moon's phases. (Prelude to the Easter Program)

#### MARCH 27-APRIL 7

"The First Easter"—Special Easter Program. The constellations as Christian symbols. Special Easter music.

#### APRIL 12-30

"The Tragic Story of Gallisto and Arcas"—The legend of the Big and Little Bears and other stories of the spring skies.

#### MAY

"The King-size Planet"—Jupiter, the largest planet in the Solar System. Planetarium demonstration with slides.

Public demonstrations will be given at 5 p.m. on Sundays and 7:30 on Mondays. Night programs will be slightly shorter than day programs to give those attending the show opportunity to view the stars through The Museum's new 6 inch telescope if the weather will permit. Special programs for groups of 15 or more on Monday through Friday from 8 a.m. to 5 p.m. or evenings may be arranged by calling The Museum at Texas Tech. Lecturers this year will be Miss Sammy Dunn, Mrs. Gladys Holden and Mrs. John Dowling. Admission for non-Museum members is 50¢ for adults and 25¢ for children.