

## McDonald Observatory Dedication Ceremony Will Be Friday

### Champion Longhorns To Face Bears Today

Steers Will Try to Preserve Record In Two-Game Series With Baylor

With the Southwest Conference baseball title already theirs, the Longhorns will try to preserve their unbeaten, untied record for conference play by defeating the Baylor Bears this afternoon at 3:30 o'clock at Clark Field.

Baylor is here for a two-game series with the Steers and Friday's game is likely to turn into a pitchers' duel, since Tommy Fine of the Bears and Melvin Deutsch of Texas are going to oppose each other on the mound. Uncle Billy Disch has been planning all week to use Deutsch against Fine to give the fans a chance to see two of the conference's best pitchers in action against each other.

Either Ned McDonald or Charlie Still will start today's game for the Longhorns with Sherman Barnes a likely choice to pitch for the Bears. McDonald, while he does not have quite as much stuff as some of the other pitchers on the squad, manages to win games chiefly through his control and nerve.

The same line-up that has started most of the conference games for Texas will probably start tomorrow. Uncle Billy is well satisfied with the playing of all of the boys and although Clarence Pfeil, center fielder, is in a hitting slump at present, his play out in the field will probably keep him in the line-up.

Baylor has a young, inexperienced team which has been improving as the season has advanced. Although they dropped their last game to the T.C.U. Horned Frogs, they still have a chance to take second place in the standings away from the Aggies and will be trying hard to do so. Two victories over Texas would increase their chances considerably.

Although the Bears' pitchers have not come through as well as expected, they have in Fine and Barnes two very good hurlers, either of whom could beat the Steers if he had a good day and his teammates gave him some runs to work on. The Bears have been hitting almost as well as the Longhorns, three of their men hitting over .400 and another .351. If the pitchers can hold the Steers down to a small number of base hits and the hitters can drive in a few runs, the Bears may upset the Steers in both games.

After this week's games, the Longhorns take a rest for awhile until they go to College Station May 15-16 for a two-game series with the Aggies, ending the season. Their ambition to finish the season undefeated may run into a set-back there because the Aggies are always harder to beat on their home grounds.

#### PROFESSOR IMPROVING

Miss Roberta Frances Lavender, associate professor of classical languages, who has been on leave of absence for several semesters because of ill health, is reported to be improving. She is staying in Washington, D. C.

#### Today's Calendar

- 9—Judge Otto Studer will speak to Dean Fitzgerald's liability insurance class, Waggoner Hall 2.
- 11:30—Dr. C. T. Gray will lecture at the Woman's Club.
- 1—Law faculty luncheon.
- 4—Reagan, Pierian, and Ashbel members leave Texas Union for picnic.
- 4:15—"Music of the Masters," Main Building 209.
- 5—Sidney Lanier Literary Society picnic at Barton Springs.
- 6—Buffet supper for all dormitory directors and advisers, Newman Hall.
- 6:30—Stag banquet for members of the Men's Glee Club, Texas Union.
- 7:15—Intersociety debate tournament, Texas Union 315.
- 7:30—Dallas Club, Texas Union 315.
- 7:30—Longhorn Band election of officers.
- 7:30—Election of San Antonio Club officers, Texas Union 302.
- 7:30—H. J. Lutchter Stark Debate Prize Contest, Garrison Hall 1.
- 9:15—Frank Gardner and the Co-Ed Trio over TSN.

### High School Press Exhibit Now in Union

More Rooms Still Needed to House Delegates to Meet

Copies of their own papers with written criticism and comments will be exhibited before high school paper staff members at the convention of the Interscholastic League Press Conference on the campus Friday and Saturday.

Hung Wednesday afternoon on the mezzanine floor of the Texas Union, the sixty or seventy corrected front pages will be another means of educating the young student journalists in ways of improving their papers.

Rooms and more rooms are needed to lodge high school delegates attending Interscholastic League contests Friday through Saturday. Housemothers with extra rooms can make arrangements with Interscholastic League Headquarters or can phone 2-3406.

"Red-penciled" by students of news editing and make-up in the Department of Journalism, the paper display is only one of the exhibits prepared by Miss Frances Mueller, assistant to the director, and her helpers.

Special poster displays on the mezzanine will show the steps in putting out a daily newspaper, the common defects in headline writing, a sample of the Brackenridge (San Antonio) Times using "rocket" headlines, and a map showing L.L.P.C. school enrollment.

Mimeographed high school papers and winners in the Missouri Interscholastic League competition will be mounted on a revolving display stand. Another exhibit will be five copies of a daily paper published by students of Los Angeles High School. In Texas Union 309 and 311 will be poster outlays on the process of making newspaper engravings and on the lives of several newspaper cartoonists.

All exhibits will be open during the two-day convention. Activities will get off to an unofficial start tonight when the Austin High School, an "O. Henry chapter," of Quill and Scroll, international high school journalism fraternity, entertains early delegates with a "Jolly Mixer Party" in the Texas Union. Beverly Sheffield of the city recreation department is planning the games for the party, which will last from 8 until 10 o'clock.

First meeting of the conference will be Friday morning at 9 o'clock.

### 'Scandalous' Program Planned For Publications Fun Frolic

By JOE JAMES

The Tiny Texan, a "noose-paper" that will be a pain in the neck to a lot of journalists, will slide off the presses and into the midst of the annual All-Publications Party in Texas Union May 10.

The gossip-filled little libel, which will attempt to crowd into six pages all of the juicy never-told tales about journalists, will only be one rib tickler on the three-hour program being arranged by Louis Baethe for the fun frolic to be given by Texas Student Publications for Texas, Cactus, and Ranger volunteer workers.

Sharing the lime-light with the scandal sheet will be a well-known and internationally famous female lecturer, brought to the campus by an equally "well-known" campus group. Her identity is being kept secret, Mr. Baethe is being kept of the limited seating capacity in the Main Lounge.

Student journalists will laugh last at their proffs when a skit based on the faculty members of the Department of Journalism will be presented. G-Men (gossip-men) have been working on this skit for days.

A male quartet (not journalists, thank goodness) will sing, and the program will also include an exclusive radio and television broadcast of a meeting of the Board of Directors of Texas Student Publications in which will be portrayed the "ease" in which The Daily Texan Radio Staff has been able to secure direct lines for broadcasts. Two surprise numbers will also be staged; however, Mr.

### Scientists Defy 'Better Late' Adage But Arrive on Time

Imagine, if you can, two world-famous scientists and the president of a great glass company rehearsing a radio script with University public relations men as they were rushed by car from Austin to San Antonio behind police patrol escorts.

And one of the scientists—a Nobel prize winner—taking moving pictures en route!

Sounds crazy, doesn't it? But that is just what happened yesterday afternoon. Arthur Compton, 1938 Nobel Physics Prize winner; Harlow Shapley, Harvard astronomer, and C. J. Stillwell, president of Warner and Swasey Company, members of a party enroute to the McDonald Observatory, were scheduled to appear on a Texas Quality Network broadcast at 5 o'clock, the program originating from Station WOAI in San Antonio.

Reports reached the University at 2 o'clock that the train was forty minutes late. As the train reached Austin, University public relations staff members and a state highway patrol escort were waiting to take the participants in the radio program off the train and rush them to San Antonio.

State highway patrolmen from San Antonio joined the group at New Braunfels and rushed them to the radio studio.

### Men's Glee Club To Banquet Tonight

Frederick Jagel, Metropolitan Opera tenor, and Mrs. Jagel will be guests at the annual banquet of the Men's Glee Club, tonight at 6:30 o'clock in the English Room of the Texas Union.

Mr. and Mrs. Jagel are the guests of Chase Baromeo, director of the Glee Club, who has just returned from a concert tour in Canada.

Colonel George E. Hurt will be the principal speaker. The Co-Ed Trio, composed of Louise Self, Jean Granberry, and Charlie Barnes, and Bonnie Ruth Taylor, member of the Light Opera Company, and Marjorie Ruth Hoyt, violinist, will furnish the entertainment.

An innovation at this year's banquet will be the playing of records which were made by the club Monday night. The recordings will be placed in the library of the club.

Other guests will include Charles Zivley, faculty sponsor, V. I. Moore, dean of student life, and Mrs. Moore, E. William Doty, dean of the School of Fine Arts, and Mrs. Doty.

Service keys will be awarded to officers and outstanding members of the club, and officers for next year will be elected immediately following the banquet.

### Capitalists Debate Today for \$5 More

Four members of the Hogz Debating Club, winners of the intersociety debate tournament and possessors of the \$25 prize money, will debate among themselves for an extra \$5 Thursday night at 7:15 o'clock in Texas Union 315.

The proposition will be the same as the one on which they won the \$25, "Resolved, That the United States Should Materially Increase Its National Program of Defense."

Junius Carter and Alton Hankins will present the negative, and Bert Tunks and E. H. Brown the opposite viewpoint.

Other members of the debate club will be judges. The team receiving the largest vote will receive an extra \$5.

Following the debates an impeachment trial will be opened against John Schow, secretary, on a charge of failing to collect \$5 for the club by the former secretary, James Heflin, who is no longer a member of the club.

#### JUDGES TALK INSURANCE

Judge Otto Studer, chairman of the Industrial Accident Board, and Judge Fred Martin, member of the board, will speak to Dean J. Anderson Fitzgerald's liability insurance class Thursday at 9 o'clock in Waggoner Hall 2.

### Rainey Advises Early Education School Revision

500 Professors Welcome Back New U. T. Head

Special to the Texan

COLLEGE STATION, May 3.—Definite revision of present day conception of secondary education and wise statesmanship to prevent driving a wedge between the forces of youth and old age security are "must" items on the future book of American problems to be solved, said Dr. Homer P. Rainey, retiring head of the American Youth Administration and president-elect of The University of Texas, here Wednesday night.

More than 500 leading Texas educators representing A.&M., Texas, Baylor, N.T.A.C., and the Texas Medical School welcomed Dr. Rainey back to Texas at a banquet sponsored by the A.&M. chapter of the American Association of University Professors.

Tribute was paid to the foresight of Americans a century ago when the nation stood committed to free public education for its youth, but the founders never realized the response that was to follow.

Only 3 to 5 per cent of youth was in schools when the plan originated, Dr. Rainey said, but in 1890, 10 per cent, 1920, 15 per cent, and today 65 per cent of youth is in secondary schools. America has more school pupils today than all the other nations of the world combined, he said.

Professions and specialized trades no longer can absorb graduates of institutions of higher learning. Of all the jobs available in America only 10 per cent are for skilled tradesmen, 25 per cent for semi-skilled, and 65 require no education beyond the eighth grade, an exhaustive survey reveals. Thus our educational process goes one way, our employment process another. These must converge at some point in a new type of secondary education, Dr. Rainey said.

### 8 Debate Tonight For \$225 in Prizes

With large money prizes at stake, eight members of the varsity debate squad will compete in the final round of the H. J. Lutchter Stark Debate Prize Contest tonight at 7:30 o'clock in Garrison Hall 1.

Subject for the Stark contest is "Resolved, That Texas Should Adopt a Uniform Retail Sales Tax." The contest will be in the form of an eight-man debate, the judges to award \$225 in cash to the three most effective speakers. Taking the affirmative side of the question Thursday night will be Lewis Foxhall, Edd Miller, Herbert Petry, and Julius Goldberg. On the negative side will be Jack Love, Kay Nolen, Leo Hoffman, and John Stephen.

Each speaker will be given eight minutes, and the first speaker will be given a three-minute rejoinder.

The participants were selected from the twenty-five members of the varsity debate squad in a preliminary elimination Tuesday night.

The Lutchter Stark Contest will mark the close of the season activities for the Texas debate squad. Prizes in the contest will be: first place, \$100; second place, \$75; and third place, \$50. Dean W. R. Woolrich, dean of the College of Engineering, will preside.

#### PHARMACISTS HEAR TALK

The equipment which a pharmacist should furnish physicians was discussed and the technique for assembling it was demonstrated by F. C. Waggoner of the Abbott Laboratories, North Chicago, before the University Pharmaceutical Association Wednesday.

The ability to win the confidence of patrons and doctors and the importance of knowledge gained through experience were emphasized by Mr. Waggoner as he told the student pharmacists, most of whom were seniors, about the problems to expect in following their profession.

### To Dedicate . . .



DR. HOMER P. RAINNEY

### To Visit . . .



Top left is Dr. J. S. Plaskett, director emeritus of the Dominion Astrophysical Observatory of Victoria, B. C., Canada. The world's leading authority on optical problems, Dr. Plaskett ranks high in astronomical circles for having determined from spectrographic observations the accurate motions of the stars in the line of sight—a foundation for all recent interpretations of the structure of the galaxy. Called in to test the McDonald mirror, he reported it "the best mirror ever made."

Top right is Dr. Joaquin Gallo, director of the National Observatory at Tacubaya, Mexico. Under Dr. Gallo's direction has been recently compiled a chart mapping and cataloguing the positions of all the brighter stars.

Left center is Dr. Bertil Lindblad, director of the Stockholm Observatory, Sweden. He has been internationally noted for his theoretical studies of the motions of the stars and nebulae.

Lower left is Dr. E. A. Milne of Oxford University, England, often credited with the world's greatest mathematical mind. One of the world's leading theoretical astronomers, he is famous for his work on the ionization of gases in the atmospheres of the stars.

Lower right is Dr. J. H. Oort, assistant director of the University of Leiden Observatory, Holland. General secretary of the International Astronomical Union, he is best known for the discovery of the effect of galactic rotation.

### Seven Years Of Research Reach Climax

Telescope to Be Accepted for U. T. By Major Parten

By MAX SKELTON

Seven years of research and planning will reach a climax Friday afternoon at Mount Locke in the Davis Mountains of Texas as over three hundred people, including thirty of this nation's greatest astronomers and those from five foreign nations, gather to dedicate the W. J. McDonald Observatory.

The dedication program will be held Friday afternoon at 3 o'clock, and the scientists present will also attend meetings of the American Association for the Advancement of Science and the Astronomical Symposiums, to be held in conjunction with the dedication at Alpine, Mount Locke, and Fort Davis. The dedication program will be broadcast over the Texas State Network.

Opening the dedication program Friday, C. J. Stillwell, vice-president of the Warner & Swasey Company, makers of the mirror, will tender the completed observatory to Dr. Otto Struve, who will serve as joint director at McDonald and Yerkes and who will make an acceptance speech.

"The Co-operative Enterprise," explaining the connections between the two universities, Texas and Chicago, will be made by Dr. Robert Maynard Hutchins, president of the University of Chicago, to be followed by an acceptance speech for The University of Texas by Major J. R. Parten, chairman of the Board of Regents of this institution.

Dr. J. S. Plaskett, director emeritus of the Dominion Astrophysical Observatory, Victoria, B. C., will speak on "Some Features of the New Mirror," and Dr. Arthur H. Compton of the University of Chicago, will talk on "The First of the Sciences."

Dr. Homer Price Rainey, president-elect of The University of Texas, will make the dedication speech for the Observatory.

Thursday afternoon and night at Alpine the opening meetings of the Southwestern Division, A.A.A.S. convention, will be held at Sul Ross State Teachers College. Presentation of contributed papers and a lecture on "Physics Views the Future," by Dr. Compton, will be given.

Besides Dr. Struve, the McDonald staff will be composed of Dr. C. T. Elvey, assistant director; Drs. G. P. Kuiper, George Van Biesbroeck, Karl Seyfert, and the staff at Yerkes which will rotate between the two observatories.

The 200-acre tract of land on Mount Locke was selected, after a year's test, by astronomers as the location for the building because the site is far enough south to offer a bigger range of stars, and because the atmosphere is clear 300 days of the year. It is forty miles from a railroad and sixteen miles from street lights, the nearest at Fort Davis.

The mirror, two and one-half tons in weight, is eighty-two inches wide, thirteen inches thick, and has been polished so as to be accurate to one-millionth of an inch, the most accurate of mirrors ever built. The mirror is made of heat-resisting pyrex glass which resists slight distortion from heat common to other mirrors after long observation.

Thirty-three electric motors will be used to operate the observatory, and over five and one-half miles of wiring were used in the installation of the equipment. The smallest motor, a one-third horsepower, drives the seventy-five ton instrument to a hair's breadth focus. See McDONALD, Page 5

#### BROGAN GONE 2 DAYS

Dr. A. P. Brogan, professor of philosophy and dean of the Graduate School, is en route to Washington, D. C., from Norman, Okla., where he will attend a meeting of the American Council on Education on May 5 and 6. Dr. Brogan has been attending a philosophical conference conducted by the University of Oklahoma at Norman, where he made a talk on the philosophy of social ethics.



# Observatory Added to Imposing List of U. T. Research Laboratories

## Aims at Rainey's No. 1 Objective

### Fact-Finding Units Urged for School

McDonald Observatory has been added to the already imposing array of research laboratories through which The University of Texas serves science, industry and commerce.

With research listed as the institution's Number One objective by President-elect Homer P. Rainey, the University points to its present fact-finding agencies as a sound start in the direction of placing the school among the front rank universities of the country.

Already functioning are: The Texas Industrial and Commercial Research Council, composed of already existing bureaus of business, engineering, chemical and geologic research, which directs its energies toward development of the State's industrial and commercial resources.

The Texas Memorial Museum, not a static display of historical relics, but a fact-finding and object-collecting agency for every phase of Texas development—historical, social, economic, industrial, artistic, cultural.

The Bureau of Research in the Social Sciences—an agency for pursuing investigation projects in social and political sciences—labor, farm tenancy, juvenile delinquency, history, governmental problems. A sub-division of this bureau is the Bureau of Municipal Research which carries on intensive studies of Texas municipal functions, not only ascertaining existing policies but suggesting remedies for shortcomings.

Scientific laboratories in chemistry, botany and bacteriology, physics, zoology, home economics, in which University professors spend much of their time outside the classroom, discovering new facts which advance the frontiers of science and make available new fundamental truths on which medicine and industry can progress.

The half-million volume Mirabeau B. Lamar Library, largest in the South, the starting point for virtually all research, whether scientific or academic.

## New Mirror Errs Only a Millionth Inch

From a huge block of pyrex—near-pure glass—has come the "eye" for the world's second largest astronomical telescope, the 82-inch mirror for McDonald Observatory at Mount Locke, in the Davis Mountains.

On December 31, 1933, began the exacting process that has produced this two and one-half ton reflector which will permit University of Texas—University of Chicago astronomers to see a wider range of the universe than any other telescope has ever made possible.

Cast in the Corning Glass Works furnaces, at Corning, N. Y., the block, with a hole in its center, was then shipped to the Warner and Swasey Company plant in Cleveland, Ohio.

There optical experts ground it with carborundum, starting with grains one-sixteenth of an inch in diameter. For forty weeks the grain size was progressively reduced to a fine grit of 220 grains to the square inch. Then came two and one-half weeks of emery work.

Finally the disc was "rouged," or polished with chemically pure oxide of iron, or rust.

When the desired curvature was attained, varying less than one-millionth of an inch from absolute perfection, the mirror was blasted with an atomic bombardment of aluminum—which possesses a higher degree of reflecting power than the traditional silver.

Finally, after five years and almost two months in the furnace and the polishing laboratory, the saucer-like disc, 82-inches in diameter, one foot in thickness, was ready for installation in the giant telescope at McDonald Observatory.

One hundred thousand times more powerful than the naked eye, this mirror permits the astronomer to concentrate in one spot an enormous quantity of star light. So powerful is it that a star 2,400,000,000,000,000,000 miles from the earth may be photographed by its aid.

McDonald Observatory, jointly operated by the Universities of Texas and Chicago, will be dedicated May 4 and 5, in the presence of leading astronomers and other scientists of the world.

## OIL MEN TO MEET

Donald A. Gillies, the new president of the American Institute of Mining Engineers, and Daniel Jackling, past president, and a party of well-known men of the oil industry, are expected to arrive at the University Friday.

The party will go directly to Marshall Ford Dam for the afternoon.

## Four-Day Program

For Dedication

THURSDAY, MAY 4

Arrival at Alpine, Texas

(Convention: S. W. Division of the American Association for the Advancement of Science)

Afternoon: Regular session of the Southwestern Division, A.A.A.S., at Sul Ross State Teachers College. Presentation of contributed papers.

Evening: Powell lecture under the auspices of the A.A.A.S. "Physics Views the Future," Dr. A. H. Compton, University of Chicago.

FRIDAY, MAY 5

9:30 a.m.-12 Noon

Astronomical Symposium and A.A.A.S. at the McDonald Observatory

Presiding: Professor Henry Norris Russell, Princeton University Observatory.

"Recent Advances in Astronomy," Professor Harlow Shapley, Harvard College Observatory.

"Astronomy in Mexico," Dr. Joaquin Gallo, National Observatory of Mexico.

"The 82-inch Telescope," Dr. J. S. Plaskett, Director Emeritus of Dominion Astrophysical Observatory.

12:30-2 p.m.

Chuck Wagon dinner at the Observatory by invitation of the Warner & Swasey Company.

3 p.m.

Dedication of the McDonald Observatory

Tender of completed Observatory to the Director by Vice-president C. J. Stillwell of the Warner & Swasey Company.

Acceptance of completed Observatory by Professor Otto Struve, McDonald Observatory.

"The Cooperative Enterprise," President Robert Maynard Hutchins of the University of Chicago.

Acceptance for the University of Texas by J. R. Parten, chairman of the Texas Board of Regents.

"Some Features of the New Mirror," Dr. J. S. Plaskett, Director Emeritus of the Dominion Astrophysical Observatory.

"The First of the Sciences," Professor Arthur H. Compton, University of Chicago.

Dedication of the Observatory, by President-elect Homer Price Rainey of The University of Texas.

SATURDAY, MAY 6

Symposium on "Galactic Structure"

9:30 a.m.-12

Presiding: Professor S. A. Mitchell, McCormick Observatory

"Present Problems," Dr. J. H. Oort, Leiden Observatory.

"Star Clusters," Dr. R. J. Trumpler, University of California.

2:30-5:30 p.m.

Presiding: Professor H. G. Gale, University of Chicago

"Interstellar Matter," Dr. Otto Struve, Yerkes Observatory.

"Star Counts," Dr. Bart J. Bok, Harvard College Observatory.

"Galactic Light," Dr. C. T. Elvey, McDonald Observatory.

"Under-Luminous Stars," Dr. G. P. Kuiper, Yerkes Observatory.

8 p.m.

Presiding: Dr. Edwin Hubble, Mount Wilson Observatory

"Cosmological Theories," Dr. E. A. Milne, Oxford University.

SUNDAY, MAY 7

Symposium on "Galactic and Extragalactic Structure"

9:30 a.m.-12

Presiding: Professor E. F. Carpenter, Steward Observatory

"Photometric Problems," Dr. Walter Baade, Mount Wilson Observatory.

"Space Distribution of Extragalactic Nebulae," Professor Harlow Shapley, Harvard College Observatory.

2:30-5:30 p.m.

Presiding: Dr. W. S. Adams, Mount Wilson Observatory

"Stellar Spectra and Colors," Dr. Cecilia Payne Gaposchkin, Harvard College Observatory.

"Theoretical Interpretation of Spiral Structure," Dr. Bertil Lindblad, Stockholm Observatory and Morrison Research Associate at the Lick Observatory.

"Star Steaming and Dynamics of Stellar Systems," Dr. S. Chandrasekhar, Yerkes Observatory.

8 p.m.

Presiding: Dr. Arthur H. Compton, University of Chicago

"Structural Features of Extragalactic Nebulae," Dr. Edwin Hubble, Mount Wilson Observatory.

MONDAY, MAY 8

9:30 a.m.-12

Presiding: Dr. W. H. Wright, Lick Observatory

"Space Reddening in the Galaxy," Dr. Joel Stebbins, Washburn Observatory.

"Stellar Masses," Professor Henry Norris Russell, Princeton University Observatory.

## Distinguished Writers To Attend Dedication

Distinguished journalists will join world-renowned scientists at the dedication of the McDonald Observatory.

Among the outstanding newspaper men of the nation who are now on the way to the Observatory are the following: The University public relations office announced last night:

Howard Blakeslee, science editor of the Associated Press; William L. Lawrence, science editor of the New York Times; Watson Davis, editor of Science Service; John O'Neal of the New York Herald-Tribune; Tom Henry of the Washington Star and the North American Syndicate; Philip Kinsley of the Chicago Tribune; Harber Nichols of the Christian Science Monitor; David Needs of the Scripps-Howard newspapers.

The Texas bureaus of the leading wire services and many Texas newspapers will be represented.

## Dr. Lund Returns From Canadian Meet

Dr. E. J. Lund, professor of zoology, returned Tuesday from Toronto, Canada, where he attended the annual meeting of the Federated Societies of Experimental Biology and Medicine on April 26 to 29.

D. Bailey Calvin, who received a degree from the University in 1925, read a paper on plasma protein changes following intravenous saline administration. About 700 other papers were presented.

On his way to the convention, Dr. Lund stopped in Washington, D. C., to participate in council meetings of the American Association of University Professors and of the executive board of Sigma Xi, honorary science society.

## Co-Operative Leaders



Major J. R. Parten, left, chairman of the Board of Regents of The University of Texas, and Dr. Robert M. Hutchins, right, president of the University of Chicago, will be on hand today for the opening of the McDonald Observatory, which will be operated jointly by the two schools.



## Not Biggest Eye—McDonald Sees More, Watches Closer

In the world's "astronomy league," The University of Texas's McDonald Observatory bats first in one department, second in another.

Its 82-inch two and one-half ton mirror is second largest in the world. Its range, however, in patrolling the universe is greater than any other instrument now built.

Located farther south than any other observatory in this country, its site adds a section of the sky not hitherto visible, numbering thousands of stars which never come within range of northern plants.

A second factor contributing to its range is the offset mounting of the instrument, a new feature among large plants. The telescope can be leveled almost at the horizon and can span the entire sky except for a circle around the South Pole with a radius of 30 degrees.

In accuracy, too, the McDonald telescope leads the field, its 82-inch mirror having been ground and polished to one-millionth of an inch of perfection.

Only one telescope in the world surpasses the McDonald in size, the 100-inch Hooker instrument at Mount Wilson Observatory of the Carnegie Institution, near Pasadena, Calif.

Other ranking reflecting instruments are the 74-inch mirror at David Dunlap Observatory, University of Toronto, Canada; the 72-inch at the Dominion Astrophysical Observatory at Victoria, British Columbia; the 69-inch at Perkins Observatory of the Ohio Wesleyan University, Delaware, Ohio; and the 61-inch at Harvard Observatory, Oak Ridge, Cambridge, Mass.

Among refracting telescopes, McDonald Observatory's sister plant, Yerkes Observatory of the University of Chicago, at Williams Bay, Wis., is the largest, measuring 40 inches.

## Here's How Five-Story U. T. Observatory Looks

McDonald Observatory, a 73-foot silver derby crowning semi-bald 6,791-foot Mount Locke, has been described as a near-perfect astronomical laboratory.

The West Texas peak, barren except for a few scrubby bushes, is dotted with cottages of the staff astronomers, dwarfed by the huge dome, itself equivalent in height to a five-story building.

On the inside of the steel shell one finds the telescope, a 75-ton precision instrument of carefully milled steel and glass. At its base are two control tables which, with four auxiliary portable push-button controls, manipulate the telescope. One of the tables is mounted on a platform beneath the telescope. This platform can be lifted like a filling station grease rack.

Slung from the dome above the telescope is a "pulpit" that may be lowered or raised at will to follow the movement of the giant mass of steel framework in its path along the 18-foot-wide "wind-down" in the roof which cracks the shell in half from the bottom of the upward curve to the very top of the observatory. It is through this slit that the "eye" peeps at the stars.

Lateral movement of the 26-foot telescope is allowed by revolving the 125-ton dome, mounted on heavy locomotive wheels. The largest electric motor of the observatory, ten horsepower, is used for this job.

Of the thirty-three motors, the smallest of one-third horsepower operates the 75-ton telescope, delicately balanced on its massive axis. The axis is hollow, allowing the starlight funneled down its steel throat to the 3,000-pound mirror to be deflected from there to a mirror in the axis and thence into the spectrograph room. Here the concentrated light is analyzed to determine the substance of the star under observation.

U. T. Officials Leave for Alpine

Seven members of the University Board of Regents, President-elect Homer P. Rainey, and seven faculty and staff members are on the way to Fort Davis to represent the University at the McDonald Observatory dedication Friday.

President Rainey returned to Austin Wednesday night after his address at College Station and will go by car to Alpine today.

Chairman J. R. Parten, Dr. Edward Randall, and Mrs. I. D. Fairchild of the Board of Regents joined the party of scientists and journalists in San Antonio last night and will go by train to Alpine.

Dr. J. M. Kuehne, Dr. M. B. Porter, Dr. E. G. Keller and Dr. H. J. Ettlinger will represent the physics and mathematics departments of the University. Dr. George Morgan, Dr. K. H. Aynsworth, Luther Stark, and H. H. Weinert of the Board of Regents will reach Alpine today by car.

W. W. Dornberger of the supervising architect's office was at Mount Locke Saturday and Sunday in connection with certain final phases of the building construction.

William L. McGill, professor of

## Brief Facts

### About Observatory

Location: Mt. Locke (6,791 feet), 16 miles north of Ft. Davis in the Davis Mountains.

Dimensions: Observatory: 71 feet high; dome 62 feet in diameter with 18-foot aperture; telescope, 26 feet long with 82-inch wide, 13-inch main mirror, 3 auxiliary mirrors.

Dome weighs 125 tons; telescope, 75 tons; mirror, two and one-half tons.

History: Telephone conference between R. M. Hutchins and H. Y. Benedict, Chicago and Texas presidents, April, 1932, set stage for joint project. Texas had \$800,000 gift of late W. J. McDonald, Paris, banker; Chicago planned another large telescope. Two institutions agreed to pool resources whereby Texas built, equipped observatory, Chicago staffed with Yerkes scientists. Contract awarded Warner and Swasey Co., Cleveland. Pyrex mirror cast, Dec. 31, 1933, at Corning Glass Works, N. Y., ground and polished five years until accurate to one millionth inch (most accurate mirror yet built). Shipped to observatory by rail and truck (Alpine, 40 miles to plant) February 22, 1939. Installed and tested for two weeks.

Life W. J. McDonald: Born Dec. 21, 1844, in Paris, Texas. Son of pioneer emigrants from Tennessee. Graduated McKenzie College, 1867, after serving as private in Confederate Army. Took up printing, law, lending money, speculation in county warrants, banking. Founded three banks. Hobbies became botany, animal life, astronomy. Died Feb. 6, 1926. Willed University of Texas \$800,000 for "erecting and equipping an astronomical observatory."

Why Mt. Locke: 200-acre tract on old U-Up and Down Ranch, deeded by G. S. Locke, to the University. After year's tests, astronomers picked Locke as site because accessible, far enough south to offer bigger range of stars, atmosphere clear 300 days in year, 40 miles from railroad, 16 miles from street light (Ft. Davis).

Mirror: Two and one-half tons, 82 inches wide, 13 inches thick, hole in center for deflected light to reach observer. Accurate to one-millionth inch (most accurate yet built) heat-resisting pyrex glass innovation in resisting slight distortion from heat common to other mirrors after long observation.

Operation: 33 electric motors operate observatory, 5½ miles wiring required. Smallest, one-third horsepower motor, drives 75-ton instrument to hair's breadth focus. Largest, 10 h.p. motor, revolves 125-ton dome. 137 push buttons required for operation. Controls at one master board, two table controls, four portable panel controls. Diesel generators in observatory's plant furnish current for operation, heating, light, refrigeration.

Power: 1,000,000 times more powerful than naked eye. Can photograph objects 2,400,000,000,000,000,000 miles distant, could photograph man at 3,000 miles (except for earth's curvature).

Outstanding Features: One-millionth inch accurate lens, offset mounting allows focus on objects at horizon (impossible most double-mounted telescopes) declination-deviation control automatically keeping star in focus and right ascension drive allowing for rotation of earth, pyrex glass avoids distortion of lens from heat on long observations, mirror second largest in world, location on Mt. Locke makes all portions of sky except 30 degree circle around South pole available for observation (greatest scope in country).

Purpose: Telescope: To study composition and makeup of stars (astrophysics) rather than to gauge distance and speed. To analyze composition of atmosphere surrounding stars.

Immediate Jobs: To investigate "white dwarfs," mysterious bodies in our universe, same size as earth but of unknown composition. Also to photograph and analyze glowing gaseous nebulae enveloping our universe, which astronomers believe represents product of ultimate disintegration of stars and planets.

Staff: Dr. Otto Struve, director, McDonald and Yerkes; Dr. C. T. Elvey, assistant director; Drs. G. P. Kuiper, George Van Biesbroeck, Karl Seyfert (full time astronomers). Staff at Yerkes now will rotate between there and McDonald. Staffmen already internationally known for achievements and discoveries.

Public Tours: Public may visit plant between 1 and 1:30 on week days, 2 and 3 p.m. Sundays. May look through telescope, by reservation, from 8:30 to 10 p.m. last Wednesday of each month.

### Comparison other large telescopes:

(Reflectors)

200-inch Palomar telescope (under construction).

100-inch Hooker telescope, Mt. Wilson Observatory, Pasadena.

82-inch McDonald telescope, Ft. Davis, Texas.

74-inch David Dunlap Observatory, Toronto, Canada.

72-inch Dominion Astrophysical Observatory telescope, Victoria, B. C.

(Refractors)

40-inch Yerkes Observatory telescope, Williams Bay, Wis.

36-inch Lick Observatory telescope, Mt. Hamilton, Calif.

32½-inch Meudon Observatory telescope, Meudon, France.

32½-inch Astrophysical Observatory telescope, Potsdam, Germany.

Observing Positions: Three points of focus: Prime, directly beneath base of instrument; cassegrain, on top bridge near dome roof; coude, inside constant temperature control booth. (Auxiliary mirrors used to deflect light to these positions.)

Financing: Built by University of Texas from \$800,000 W. J. McDonald endowment, and operating expenses to be paid by University of Texas; staffed by University of Chicago. Not one cent of taxpayers' money has gone into its construction or operation costs, except insofar as time of University men is taken up in administering the McDonald trust fund.

## What Good Is Astronomy? You Get 'Gas' for Answer

Ask an astronomer to tell you the practical worth of his profession, and you'll get the world's best "gas" for your answer.

A University of Texas scientist, formerly with the great McDonald Observatory staff sums astronomy's contribution this way: "Anything that adds to our fundamental knowledge of matter—the structure of atoms and molecules—has at least a potential practical value."

If you want something more tangible than that, Dr. Paul Rudnick, University professor of physics, or any astronomer, will talk "helium."

Texas know that near Amarillo they possess this country's only store of the gas that revolutionized lighter-than-air craft. But few of them know, Dr. Rudnick adds, that it was astronomy which first found helium.

It was in 1868, while the Sun

was being observed through a spectroscope—used to sift starlight into its component colors—that helium was located in the outer atmosphere of the Sun. Its name came from the ancient Greek word for Sun. Astronomers then suspected it was non-inflammable and incapable of combination with other gases.

Not until 1895 did the laboratory isolate helium, finding it

## U. T. Telescope Has Two Jobs

### Not to Compete With Other 'Eyes'

As one of the greatest of the world's 40-odd great non-competing telescopes, Texas's McDonald Observatory already has its "chores" assigned.

In mapping the course of work which The University of Texas's astronomical plant will follow, Dr. Otto Struve, director, pointed out that observatories in no sense compete with one another.

In a sense, they "split up the sky," each working at whatever job for which its instrument is best suited.

For McDonald, Dr. Struve said the great 82-inch telescope is to (1) probe into the mysteries of the "white dwarfs" of the sky, and (2) analyze the far-distant nebulae of glowing hydrogen, oxygen and nitrogen.

Discovered by McDonald's Dr. Gerald P. Kuiper, the "white dwarfs" apparently are about the same size as the earth. McDonald observers want to find out what they are made of; physicists here call it "degenerate matter," supposed to weigh several tons per cubic inch.

McDonald scientists will also seek a link in the chain of evidence that the great clouds of gas surrounding our universe of stars (of which the sun is a smaller member) represent the product of ultimate disintegration of the stars and planets.

Generally, according to Dr. Struve, the McDonald plant will be used for the study of "astrophysics"—distinguished from astronomy as having to do particularly with the physical nature of stars instead of gauging the distance, dimensions and motion of the bodies.

Some problems to be taken up include the study of chemical compositions of the atmosphere around the stars, the study of properties of matter exposed to temperatures ranging from three thousand to fifty thousand degrees or more, the study of distant universes—which involves a test of the Einstein theory—and the study of gaseous nebulae, comets and planets.

## Texas Students May See Here, Also

While some of the world's leading astronomers are busy dedicating the big McDonald Observatory on Mt. Locke this week-end, University students and visitors can take a look at the heavens right here on the campus from either of two places.

The first is the Physics Building Observatory, through which visitors and students may see real stars pointed out by an assistant. Although the observatory here is small indeed when compared to the gigantic McDonald telescope, it has been called one of the best of its kind in the country.

The second is the planetarium in the Old Library Building, in which a synchronized machine controls the movements of nine planets, twenty-seven satellites, and 4,000 stars. The miniature universe, which was built in 1936 for the University's Centennial celebration by Dr. E. G. Keller, professor of astronomy, projects the stellar bodies across the skies at the rate of one hour each minute.

to be a minute constituent of the Earth's atmosphere. In 1917, this same non-inflammable "noble" gas was discovered in the bowels of the Earth in commercially useful quantities.

Scientists will tell you they might have discovered the gas in time, but they also admit it was astronomy that started the search on Earth for the gas that would not burn and would not combine.

By examination of the stars, astrophysicists can study the matter at much higher temperatures than any furnace known to man can produce. Likewise they have in their far flung laboratories a range of pressures ranging from normal to "red-hot" vacuums.

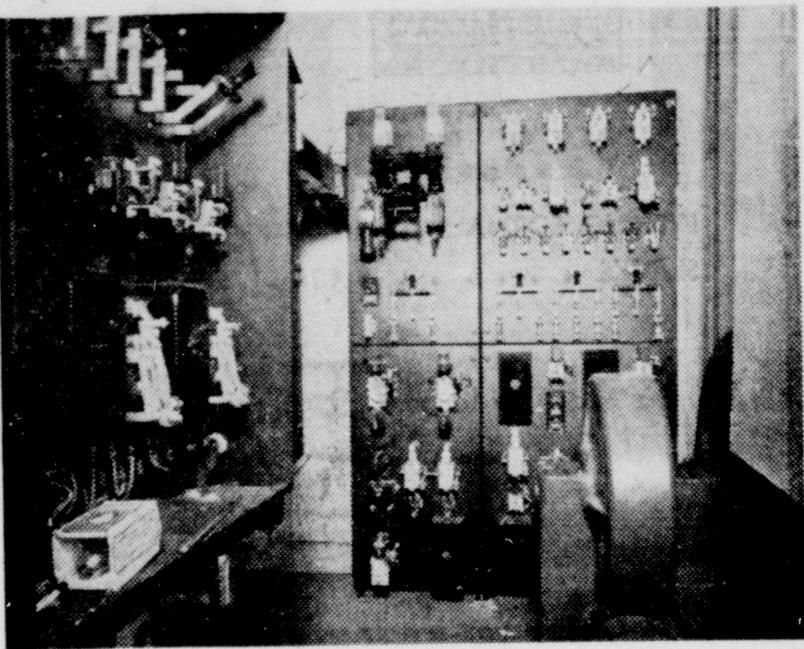
In one schedule for the McDonald plant, the study of the mysterious "white dwarfs," might arise a new element to be discovered on the Earth. The dwarf, composed of "degenerate matter," are about the same size as this planet, but are compressed to such a degree that a cubic inch may weigh several tons. Astronomers want to find out what forms of matter produce that tremendous weight.

If their discoveries don't later turn up in a chemist's test tubes, they will go right along probing—"adding to our fundamental knowledge of matter."



# Astronomers at McDonald Plant Are Internationally Known Men

Here's How . . .



Key to the Pictures

One spark from the electric control at massive McDonald Observatory, and current, coursing through five and one-half miles of wire and 35 motors, chases the 26-foot, 75-ton telescope in its dogged pursuit of a star millions of miles away. Here's how it happens:

1. At the intricate master control, the driving motors of the plant are started and operation of the instrument is transferred to one of the portable control tables in the dome room.



2. After calculation involving several phases of higher mathematics, the twin gauges along the barrel of the instrument are set and Astronomer Carl Seyfert, using the table control, hurries the telescope to the "vicinity" of the star.

3. The precise work begins as Dr. Seyfert moves to the "finder" telescope, and slowing the great telescope with a portable panel operation. By the "push-button" control, he is closing in on the star to be observed.

4. There it is! Still using the panel "push-button," Dr. Seyfert has the 75-ton telescope focused to a hair's breadth. A special automatic device on the instrument counteracts the effect of the earth's rotation, holding the star in constant focus.



5. And here's the star's eye view. Down the great steel throat of the telescope is two and one-half tons of glass, ground and polished to the world's finest surface, an error-maximum of one-millionth inch. Here the star light is "funneled-in" and deflected by other mirrors to the observer.

## How to Spy On Stars in 7 Steps

How to spy on a star, McDonald Observatory fashion, breaks down into seven steps, a staff astronomer at the plant has disclosed.

1. The driving motors are started up. These rotate the 125-ton dome until the 18-foot wide aperture faces the sector of the sky in which the star is located. Other motors slide back the shutters over the slit.

2. The 82-inch pyrex mirror is bared to starlight when the dust and heatproof shutter over it is drawn aside.

3. The observer calculates the approximate location of the star in the heavens, using a star catalogue, making his computations and setting them on twin gauges on the telescope.

4. The finder telescope, operated from the table control, locates the star's vicinity.

5. The observer moves to the portable "match box" push button control. Other charts and calculations are used and a button sets the "slow control" in operation. The instrument is ready for exact focus.

6. Under the push-button control, the telescope automatically focuses to a hair's breadth. A small motor synchronized with a "star clock" keeps the 75-ton instrument constantly in pace with the star's flight across the heavens.

7. The observers may then examine the star or photograph it from one of three positions: directly below the base of the instrument, from the lofty bridge at the top of the telescope, or from inside the constant temperature control booth. Smaller mirrors are used to deflect the star light to the observer's point of vantage.

## Sellards Returns From Geology Meet

Dr. E. H. Sellards, director of the Bureau of Economic Geology, has returned from a meeting of the business council of the Geological Society of America in New York City. Research grants amounting to \$17,000 were voted to scientists in the United States. The twelve-member council arranged a program for the annual convention to be held in Minneapolis, Minn., next December.

## Big Campus, Handcuffed Cash Is U. T. Education's Puzzler

With the dedication of its great observatory marking a major bid for international recognition as a center for research in all the sciences, The University of Texas today stands as the nation's number one educational paradox.

The paradox? It has money it can't use. It has a reputation for possessing fabulous wealth from oil; yet it is able to spend less per student than nearly every state university in the nation.

Today, the physical plant in Austin is valued at \$27,000,000—a 46-building campus replacing a cluster of wooden "shacks" of less than two decades ago. It was built through that same oil money (for that's all state law would permit the money to be used for).

University fathers found themselves with a student enrollment booming at a rate of 1,000 students per year, with a depression market in which building materials could be bought cheaply. They will also tell you they had to mortgage the income from their oil lands for almost 10 more years.

Nobody understands about the oil money, either, they complain. The University's "untouchable" permanent fund today stands in the neighborhood of another \$27,000,000. That money represents the royalties from oil discovered on University land—but it has to be invested in full and only the interest may be tapped.

So the old "ramshackle" university now stands at an educational crossroads, they will tell you. There is a splendid physical campus and research as the 27-story Administration Building, the newly-opened Texas Memorial Museum, the newly-

organized Texas Industrial and Commercial Research Council, and the second largest astronomical observatory in the world—McDonald.

On the other hand there is a near-11,000 student enrollment jamming the corridors and classrooms to capacity. There is a \$27,000,000 fund, untouchable by law, with its future interest already tapped for ten years. There is an outlay to teach each student of less than \$20, less than half that of many institutions of equal size, less than the average expenditure of almost every other state university.

On one side of the crossroads, University fathers will point with pride at: number one ranking in the South as a graduate institution; possession of its faculty of three of the South's five National Academy of Science members; number one library in the South (565,000 volumes); membership as one of the South's four members of the Association of American Universities; ownership of the world's second largest astronomical observatory.

Their immediate objectives on the other side of the crossroads are: an outstanding Latin-American Institute to take the lead in the educational phase of this country's relations with its southern neighbors; expanded research in both industrial, commercial and medical fields; a larger staff (teaching staff is now one-fourth heavier than the average for all forty-two state universities); and means of attracting more distinguished scholars and teachers.

The answer is more money, they maintain. The problem is that of overcoming the nation-wide notion that they already have it.

## Amateur Built Big 'Eye'

### 7-Year Dream Of U. T.-Chicago Now Fulfilled

Unique in educational annals is the co-operative plan by which two great universities have pooled resources to operate a giant "sky laboratory," science's newest plant, McDonald Astronomical Observatory, at Mount Locke, in the Davis Mountains of Texas.

Credit for the "co-op" idea goes to youthful President Robert Maynard Hutchins of the University of Chicago, but science owes a debt of gratitude to the late President Harry Yandell Benedict of The University of Texas, who recognized Hutchins' ingenuity and threw the latter institution into line.

Seven years ago two separate astronomical projects had been set in motion. The University of Chicago decided to reorganize its astronomy department and its Yerkes Observatory, and to add to its 40-inch refracting telescope a modern instrument of the reflecting type.

At the same time The University of Texas was pondering how best to utilize an \$800,000 bequest from the late W. J. McDonald, Paris, Texas, banker, which had been earmarked for an astronomical observatory.

One afternoon in April, 1932, President Hutchins picked up his telephone and, calling Dr. Benedict, "sounded him out" on combining forces to build a telescope larger and more nearly perfect than either institution could afford by itself.

Himself a mathematician and an amateur astronomer, Dr. Benedict approved the idea, later endorsed by his successor, J. W. Calhoun. Within a short time, a formal agreement was drawn up between the two institutions, whereby The University of Texas was to build the observatory and to pay for the entire equipment, while the University of Chicago was to supply the entire staff and to pay the larger part of the operating expenses.

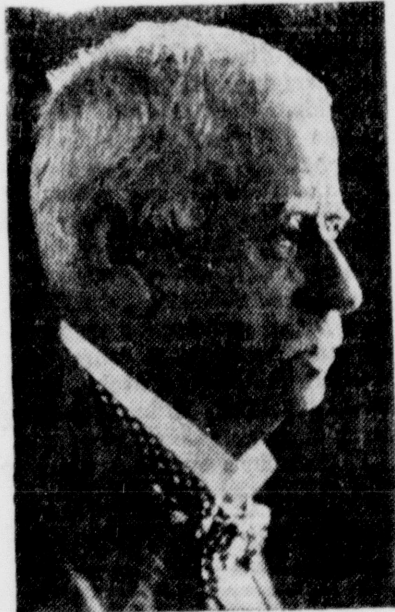
After a term of thirty years, funds in the McDonald bequest will have accumulated enough to allow the University to continue operation of the observatory alone—or to add to its scientific equipment and continue with the joint plan of maintenance.

### Dawson New President Of U. T. Science Club

Raymond F. Dawson, testing engineer in the Bureau of Engineering Research, was elected president of the University Science Club for next year at its last meeting of the year Monday.

Dr. H. B. Stenzel, geologist in the Bureau of Economic Geology, discussed the arrangement of minerals in igneous rocks and interpretations as to the mode of emplacement of igneous rock masses in the earth's crust in his speech on "Flow Structure."

Dr. J. J. Miller, instructor in physics, was elected secretary-treasurer for next year. There are only two officers in the club.



W. J. McDONALD

## Texas 'Eye' Sees More and Farther

Why did astronomers choose 6,791-foot Mount Locke for the site of The University of Texas's McDonald Observatory, 400 miles west of its parent institution at Austin?

For near-perfect starlight reception the requirements were: no vibration, no glare, no dust, no clouds.

So in his search for an observatory location, Astronomer-in-Charge Dr. C. T. Elvey found the Davis Mountains, with peaks of around 7,000 feet, to be most ideal.

Although the 75-ton telescope itself is firmly mounted on gigantic concrete piers, Dr. Elvey had to take into account proximity of railroads and other sources of vibration. The Texas and New Orleans is the nearest railroad—40 miles away.

Unshielded street lights, which would make a disturbing glare, are no closer than Fort Davis, 16 miles from the Observatory. Extra precaution was being made in 1936 that no filling stations would ever be erected anywhere within five or six miles of the plant.

Dr. Elvey preferred Mount Locke to a neighboring peak because Mount Locke was covered with more foliage, which helps keep down the dust on the wind-swept mountain. Too much dust in the air is a serious obstacle to good vision, he pointed out.

With a rainfall of only 15 inches per year, the area is unclouded approximately 300 days of the year.

Then too, more than 50 per cent of the stars and nebulae which will be objects of scrutiny are seen better from positions nearer the equator. Thus the southernmost vantage point in the United States was selected.

The 200-acre site, with an adjoining 200-acre tract, was given to the University in 1933 by Mrs. Violet Locke McIvor of Concord, N. H., whose grandfather, G. S. Locke, founded the U. T. and Down Ranch there. The land is now valued at \$4,000.

### Pioneer Banker Had Early Interest In Astronomy

Texas will boast the world's second largest and most perfect observatory today because seventy years ago a big red-headed youth was developing a great flare for the mysteries of science.

The youth was William Johnson McDonald, to become one of his pioneer state's outstanding bankers, was born in Paris, Texas, December 21, 1844, son of one of the pioneer settlers of Lamar County.

His early days, young William spent on the extensive farm of his father with his two younger brothers, where, reports say, his interest in the science of nature was whetted. At the age of 16, he was enrolled in the then flourishing McKenzie College, a small school at Clarksville, Texas.

The outbreak of the Civil War interrupted the young scholar's interest in the scientific and he joined the Confederate Army as a private. Stationed in East Texas throughout the war, he saw no action, however, and returned to study at McKenzie College for graduation in 1867.

A bachelor then and until he died, young McDonald then began a business career which became a steady rise to financial independence and success.

He was in succession, a printer, and then a lawyer in Mt. Pleasant. But the money from his first fees brought such good returns as loans, he deserted the bar for finance. There he remained for the rest of his life, founding in 1865 the Citizens Bank of Clarksville, first of his ventures. This was followed by two more, which had brought him, by his forty-third year, a considerable fortune.

At first a student of the natural sciences in general and botany in particular, his interest shifted gradually toward astronomy. At one time he was said to have jokingly remarked to his Negro barber that one day would be built a telescope large enough to see the gold-paved streets of the New Jerusalem.

That remark was later brought into court when relatives contested his will which left more than \$1,000,000 to The University of Texas for an observatory.

The contest was settled with the University receiving \$800,000, however. That money, invested, made a Texas contribution to science and a monument to the wisdom of one of its great pioneers.

### Noyes Scholarship Deadline May 5

Final application date for the La Verne Noyes Scholarship, open to World War veterans and their children, has been extended to May 5.

The late Mr. Noyes, of Chicago, left a sum of money to be used in educating World War veterans and their children who are financially unable to attend college.

Three schools in Texas are benefited by this award, and since its innovation in 1936, eleven University of Texas students have taken advantage of it. Application blanks for the scholarship may be obtained in the Registrar's Office.

### City Life Minus Noise Describes Remote Mt. Locke

To live on top a mountain in the largest and least-populated country in Texas would seem to be isolation to many, but to the handful of astronomers and staff technicians there, McDonald Observatory is a village in itself, modern to the last degree.

The sixteen houses scattered around the brow of 6,791-foot Mount Locke are modern, roomy, and have all conveniences of urban dwellings, minus the noise of cities. Dr. Otto Struve, director of the observatory, has the largest house, a story and a half stone structure. The other dwellings range down to the three to four-room cottages.

A Diesel power plant provides a 110-volt direct current for lighting the homes, running appliances, pumps, and powering observatory motors.

Although the Observatory building with its offices, reception rooms, and library, is heated with electrical heaters, the staffmen's homes are equipped with oil burners for the most part. Dr. Struve's home has a coal furnace, the fuel to be hauled from one of the nearby villages.

Water is abundant, a 960-foot well which has stood 72 consecutive hours' pumping without dropping the water level over two feet makes the 15-inch yearly rainfall insignificant. The water is excellent, one staff worker said, for cooking and drinking. The water is piped 600 feet from the well-head on the mountain side to the buildings above.

Food comes, for the most part, from the grocers of Ft. Davis and Alpine. Daily trips are made to the village of Ft. Davis for supplies and mail.

Pastime is a minor item. But riding at near-by dude ranches, movies at Alpine, and amateur photography allows some relaxation. Radios and two-day airmail service to Chicago, home grounds for many of the workers, since they are employed by the University of Chicago through its Yerkes Observatory at Williams Bay, Wis.

Relative time and distances, problem of physicists and astronomers, have practical applications here. "Why, out here," one northern-bred worker exclaimed, "we drive 40 miles to see a movie in the time it takes to go from suburban Chicago to a theater on the Loop."

### 6 Professors Return From Dallas Meet

Six University teachers returned Sunday from Dallas, where they attended the tenth annual convention of Delta Kappa Gamma, honorary teachers' fraternity, Friday, Saturday, and Sunday in the Adolphus Hotel.

Dr. Annie Webb Blanton, professor of educational administration, and Dr. Cora Martin, associate professor of elementary education, as founders of the organization, were honor guests, along with four other founders, at a banquet Saturday night. Dr. Blanton, national executive secretary, and Dr. Maycie Southall, national president from George Peabody College, Nashville, Tenn., spoke.

Other University teachers attending the convention were Dr. Clara May Parker, professor of the art of teaching; Mrs. Margaret Kress, instructor in Romance languages; Miss Lilla Mary Casis, professor of Romance languages; and Miss Anna Hiss, associate professor and director of physical training for women.

### P.P.E. STUDENTS BACK

Forty senior Petroleum Production Engineering students have returned from a trip to Lufkin and to the Oil World Exposition in Houston.

In Lufkin the group visited the Angelina County Saw Mill, the Texas Foundries, Inc., and the Lufkin Foundry and Machine Company. They were also entertained in Lufkin by city officials before they left for Houston.

## McDonald's Electric Control Best in Nation, Experts Say

Electricity is the obedient genii of McDonald Observatory's "Aladdin's" who operate the 75-ton telescope in star-gazing from the top of Mt. Locke.

And the electrical equipment at the world's newest and second largest observatory is second to none in the nation, engineers have reported to University of Texas officials, joint sponsors of the plant.

Coursing through five and one-half miles of wiring and controlled by 137 push-buttons, electricity operates the telescope, revolves the 125-ton dome, and opens the dome window. Key points of operation are located in a master switchboard, two table controls, and four portable "match box" control panels.

Thirty-three electric motors do all the work. Semi-diesel generators provide the current for them and for the plant's light and heat. Smallest of the group, a one-third horsepower motor, operates the 75-ton instrument, driving it to a hair's breadth focus. This tiny motor-driven right ascension control is used to counteract the effect of the earth's rotation and to hold the 82-inch mirror in constant focus.

Driven by a 10-horsepower motor, the 125-ton steel dome revolves on locomotive wheels. Refrigeration is also provided electrically. The spectograph room at the end of the telescope's massive axis, where the spectrum is analyzed, has a constant temperature. And even the photographic supplies are cooled electrically.

### Seven Men Will Make Up Staff

#### Yerkes Observers To Rotate Duties

To probe the mysteries of outer space, McDonald Observatory will boast a staff composed of some of this nation's most competent astronomers, University of Texas officials disclosed.

Half of the Yerkes-McDonald axis, first co-operative astronomical venture, the Texas plant is to be staffed by Yerkes observers working on a rotating basis between the two observatories.

The Yerkes-McDonald staff and research associates will be Dr. Otto Struve, director; Dr. C. T. Elvey, assistant director at McDonald; Drs. George Van Biesbroeck, Gerald P. Kuiper, W. W. Morgan, S. Chandrasekhar, Louis G. Henyey, Philip C. Keenan, J. L. Greenstein, Thornton L. Page, Carl K. Seyfert, Daniel Popper and Walter Linke.

Dr. Struve, former member of the Russian Imperial Army and director of both McDonald and Yerkes plants, is already noted for his work on the spectra and his discovery of several new stars. One asteroid he named McDonald—after the donor of the huge scope.

Dr. Elvey has been recently successful in photoelectric observations of the brightness of the night sky and of a number of eclipsing variable stars.

Dr. Kuiper, now at McDonald, is already recognized for his recent discovery of the mysterious "white dwarfs"—stars in our universe of a size comparable to that of the earth, but condensed to the point that a cubic inch may weigh several tons.

Also at McDonald is Dr. George Van Biesbroeck, well known for his investigation of comets and asteroids. Dr. Van Biesbroeck made some of the first photographs through the new McDonald telescope.

Professor Morgan, now working at Yerkes, is best known for his work on the spectra and the brightness of the stars, while Professor Chandrasekhar, also at Yerkes, is the leading authority on the constitution of the stars.

### 1 Night a Month For Star-Gazers

A "studio audience" to watch the performance of the McDonald telescope, Texas's 82-inch Cyclops will be admitted to the Observatory the last Wednesday night of each month, Dr. Otto Struve, director, has announced.

Daily and Sunday visitors, who in the past have shown an intense window-peeping curiosity about the observatory, will be shown the telescope between the hours of 1:00 and 1:30 p. m. on week days; 2 and 3 p. m. Sundays, Dr. Struve announced. These public inspections will begin May 15, ten days after the observatory is dedicated.

At the monthly night sessions, an hour-and-one-half demonstration, beginning at 8 p. m. will be conducted for a limited number of "star gazers" who have written and secured from the Observatory a time schedule for their look into the second largest telescope of the world.

Original plans for the Observatory's routine reserved the plant exclusively to the astronomers, but the good roads leading to Mount Locke have drawn curious tourists to its summit in great numbers, staff members said.

### FELLOWSHIP FOR HORTON

H. Burke Horton, tutor in business administration, has been awarded a fellowship by Columbia University for the academic year 1939-40. Mr. Horton, who has received his bachelor's and master's degrees of business administration, expects to complete his doctorate in two years.



# Guernsey, Kamrath Reach Net Tourney Finals; to Play at 2 o'Clock

## Rice Star Wins Over Christner

Kamrath Defeats Teammate Riskind

By HAL BRIDGES

Under a cloudy sky the South-west intercollegiate tennis tournament at Penick Courts moved into the final round yesterday afternoon with the following results:

Frank Guernsey of Rice beat Christner of Texas, 6-4, 6-4, 6-3.  
Bob Kamrath of Texas beat Reuben Riskind of Texas, 6-3, 6-0, 3-6, 4-6, 6-3.  
Guernsey and Dick Morris beat Riskind and Maurice Fincher, 6-1, 6-4, 7-5.

The other doubles match between Kamrath and Christner and Fred Barnes and Randolph Scott of North Texas Teachers was called because of darkness with the score standing 4-6, 13-11, 6-4, 4-4, in favor of Barnes and Scott. The match will be resumed this morning at 10 o'clock.

In the finals starting at 2 o'clock this afternoon Kamrath will meet Guernsey, and Guernsey and Morris will play the winners of this morning's match.

Simultaneously with the tournament the University tennis team will play a dual meet with Rice. Because of this, blanket tax holders will be admitted free to all the matches. Others must pay 25 cents.

Bob Kamrath came close to not getting in the finals yesterday afternoon. Tall, black-haired, bespectacled Reuben Riskind threatened to eliminate him. The match began inauspiciously enough, with Bobby powerhousing his way through the first two sets and the crowd in the stands giving most of its attention to Guernsey and Christner on the center court.

In the third set, however, Riskind raised his game several notches and became unbeatable at net. He won that set and the one following. Plainly worried, Kamrath was over-forecasting and making too many errors. He kept trying to win with terrific services and forehand drives, and as a result was quickly becoming exhausted.

The fast pace was telling on Riskind also, but he was playing cool, perfectly calculated tennis. He lengthened his backcourt drives and increased their speed. Apparently he was on his way to victory.

He fought to a 3-2 lead in the fifth set, and the crowd began to take sides. "Come on, Rub!" take sides. "Come on, Rub!" someone yelled; and someone retorted, "Come on, Bobby!" With Riskind serving the score in the sixth game went to 30-all. "Ooh!" groaned a Kamrath fan as Bobby blew a resounding forehand drive over the baseline—40-30. Riskind stepped into serving position. The game and a 4-2 lead was a point away.

Then he double-faulted. Bobby eventually won the game, tying the score. He held his service for a 4-3 lead, won the next two games and the match with the loss of only one point.

Warren Christner adequately summed up his defeat at the hands of Intercollegiate Champion Guernsey when he remarked afterward, "I played good tennis, but every time I made a good shot, he made one just a wee bit better." Guernsey played nonchalantly, almost carelessly, making numerous errors. But he won the points he wanted to, and the outcome was never in doubt.

Rice held the lead all the way in the doubles match between Riskind and Fincher and Guernsey and Morris. Riskind was worn out from his singles match. The Longhorns concentrated their attack on Morris, but he failed to crack.

Kamrath and Christner's match with Barnes and Scott was a grueling marathon, characterized by remarkable lobbing of Scott.

## Frosh, Like Varsity, Win Baseball Games

Beat St. Ed's, 4-1, As Perry Pitches Three-Hit Game

By HERSCHEL KORNBLATT

For the first time this season Coach Ed Price's Texas Freshmen displayed the caliber of ball they are capable of playing to defeat the Holy Cross Hall St. Edward's Tigers at Clark Field yesterday afternoon. The result was 4-1.

H. K. Berry was the principal factor in the Yearling victory as he set down twenty-five batters with only three hits. The powerful right-hander reached his peak yesterday afternoon. His recovery from the lack of control which had formerly proved fatal was demonstrated in that he walked only one man. Perry was in command of the situation throughout the game as he struck out five men in the seven-inning contest.

At the plate, Steve Holchak, loquacious right fielder, was the power for the Frosh with a double and a single in two times at bat. He also drove in two runs.

Holchak started the scoring in the second when he doubled against the cliff in center field, scoring Schlegel, who had singled and stolen second, across the plate. Holchak also sent the second tally home. After Williams had opened the fourth inning with a double to center and advanced to third on an error, Holchak poled a fly to deep left field, sending Williams home.

The Frosh made their other two runs in the sixth. Croucher singled and was pushed to third base by Holchak's single, from where he was advanced home by Fortune's infield blow. Perry finished the Freshman scoring when he knocked a double against the cliff in left field, sending in Fortune.

The score:  
ST. EDWARD'S (1) ab r h po a \*  
G. Norris, 2b 3 0 1 1 0 0  
Whitson, 3b 3 0 1 1 0 0  
E. Norris, lf 3 0 0 1 0 0  
Kusmierz, cf 3 0 0 0 0 0  
Hahiger, 1b 2 0 1 12 0 0  
Alexander, cf 2 0 0 0 0 0  
Rupel, 3b 1 0 0 1 0 0  
Leyendecker, ss 3 0 0 2 0 0  
Reynolds, c 2 1 1 1 1 1  
Doetsch, p 3 0 0 0 0 1  
Totals 35 1 8 21 13 3  
\*Batted for Alexander in seventh inning.

TEXAS (4) ab r h po a \*  
Burton, 2b 3 0 1 0 1 1  
Glen, lf 3 0 1 1 0 1  
Eckert, 1b 4 0 0 11 0 0  
Schlegel, cf 3 1 1 1 0 0  
Williams, 3b 4 2 1 0 1 0  
Croucher, ss 3 0 1 2 4 1  
Holchak, rf 2 0 2 0 0 0  
Fortune, c 3 1 0 4 1 0  
Perry, p 3 0 1 6 2 0  
Totals 29 4 8 21 9 2  
Texas 010 102 0-4  
St. Edward's 000 010 0-1

Runs batted in: Holchak (2), Fortune, Perry, G. Norris. Two-base hits: Holchak, Williams, Perry. Sacrifice: Holchak. Left on bases: Texas, 7; St. Ed's, 5. Base on balls: off Perry, 1 (Hahiger). Struck out: by Perry, 5 (G. Norris, 2; Alexander, 2; Leyendecker); by Doetsch, 2 (Eckert, Fortune). Wild pitches: Doetsch, 2; Perry. Hit by pitcher: by Perry (Reynolds); by Doetsch (Burton, Schlegel). Umpire: Prestwood.

THURSTON, EX. IN ITALY  
Ray Thurston, ex-student who received his master's degree in government in 1935, will leave late this month to begin work in the United States Foreign Service in Naples, Italy.

After leaving the University, Mr. Thurston went to the University of Wisconsin where he received his doctor's degree and passed the foreign service exam.

He served a period of consular probation in Toronto, Canada, and then returned to this country to finish work in the Foreign Officers' Training School.

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## Intramural Activities Nearing Close as Teams Fight For Swimming, Baseball, and Track Championships

By I. E. CLARK

Delta Tau Delta 11, Sigma Phi Epsilon 3; Phi Gamma Delta 4, Sigma Alpha Epsilon 3; Jones House 0, Fitz House 0. Those are the scores of the baseball semi-finals in the fraternity and MICA divisions. Eighty-two strikeouts marked the three games.

Pete Montgomery was the Delts' hero yesterday. In the fifth inning of his game the score read S.P.E. 3, Delta Tau 2. But just as the Delts were about to give up Montgomery knocked a home run out to right field and scored a man in front of him. That started a rally which ended in eleven runs and fourteen hits. Harry Reading added two runs to the Delts' score in the sixth by laying out a homer with one on.

Harold Miller struck out eleven S.P.E.'s and allowed four hits. James Krause fanned ten Delts. Miller got two hits. Jimmy Wood started in centerfield for Delta Tau.

Phi Gamma Delta won its game in the last inning. S.A.E. led 3-2 as John Ainsworth came up to bat for the Phi Gams in the seventh. Ainsworth walked and moved on to second as James Smyth was given a free trip to first. William Swanson singled and Ainsworth scored. Reese popped up to the pitcher and was ready to go to the bench when the hurler dropped the ball and allowed Smyth to score the winning run.

Bob Matthews, Phi Gam, had fifteen strikeouts to his credit and allowed five hits. Patrick, S.A.E., struck out ten and allowed three hits. Bob Cousins, S.A.E., led the hitting with two singles.

A pitchers' duel that was tied up tight came in the Jones House-Fitz House battle. The scorecard showed: Knox Delambre, Fitz House, eighteen strikeouts, four hits, no runs; Hunter Schieffer, Jones House, eighteen strikeouts, four hits, no runs. The game was called at the end of the tenth inning because of darkness.

Fitz House scored two double plays—one in the fourth when Jim

Jones' Locker. Bill Newkirk, Sigma Chi; Nelson Puett, Phi Psi; and Jack Painton, Hutch House, will be doing their best to drown the existing 100-foot breast stroke record, and Morgan Nesbitt, Sigma Chi, will probably submerge the 100-foot free style mark of 16 seconds. The Sigma Chi medley relay team will try to better the 57.3 they made in the three-lap relay Tuesday night.

And even Jack Bergfeld's 300-foot free style record of 61 seconds which was set way back in 1936 might fall. Bob Hoffman, Delta Tau, swam the hundred yards in 61.5 Tuesday—and he was taking his time at the finish.

All diving events will be held Thursday night from the ten-foot springboard. No points were given in Tuesday's events—only victories won in the finals tonight will be rewarded by the intramural department.

Track entries close today at 5 o'clock. Track is the last sport of the year. Preliminaries in all running events and finals in shot put and high jump will be on Tuesday, May 9. Finals in the running events and in javelin and broad jump will be run off Thursday.

Entry rules are similar to those for swimming—the number of entrants is unlimited in all events except the relays, no substitutions

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## The Classified Ad Department of The Daily Texan Offers Special Rates to All University Housemothers

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" 7	21	3.20
" 8	20	3.10
" 9	19	3.00
" 10	18	2.85
" 11	17	2.70
" 12	16	2.55
" 13	15	2.40
" 14	14	2.25
" 15	13	2.10
" 16	12	1.95
" 17	11	1.80
" 18	10	1.70
" 19	9	1.55
" 20	8	1.40
" 21	7	1.20
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# Longhorns Meet Aggies, Owls in Triangular Meet at Houston Today

## Gateway to Run Against Wolcott To Renew Feud

By AL LANDERS  
Texas Sports Staff  
At Houston this afternoon, the Longhorn track team tangles with A.M. and Rice in their annual triangular meet, popularly called the "little conference" meet because the winner usually wins the Southwest Conference crown.

Today's meet pits Boyce Gateway of Texas against Fred Wolcott in the top attraction. Last Friday in an intrasquad meet at Memorial Stadium, Gateway coasted into the tape after clearing the last hurdle in the 120-yard high and still made the time of 14.4 seconds. Wolcott was clocked in the identical time in taking first at the Drake Relays Saturday.

The two hurdlers will also meet in the 220-yard low, and are scheduled to race against each other in the 100-yard dash, but Elmer Brunson, coach of the Owls, may not enter his ace in this event, as Wolcott has been troubled with a leg injury for nearly six weeks. Texas's Clyde Littlefield may also keep Gateway out of the century because he has just recently recovered from a pulled leg muscle and over-exertion might pull the ligament loose again.

The Owls should get most of their points in the dashes and relays; Texas will likely dominate field events, and the Aggies will possibly gather thirds and fourths for their share of the points except in the two miles, where Strother is a heavy favorite to place first. An Aggie victory in the two miles or upsets in the field events will little alter the point standing for the Owls, who have no capable distance or field men, except in the shot put, but it might spell defeat for Texas.

Beefus Bryan, pole vaulter; Gilliam Graham, javelin thrower; Jack Hughes, discus thrower; and Jud Atchison, broad jumper, have almost been conceded five points each in their events.

Paul Sanders, the Owls' Southwest Conference 440-yard dash champion, and his sophomore teammate, Billy Turney, who turned in a 47.9 lap in his share of the Rice team's mile relay at Drake, are the leading quartermilers. Wendell Siebert, captain, and Red Barefield are the two leading Steer challengers.

If E. Y. Steakley, ace Rice 100- and 220-yard dash man and member of the sprint relay team, does not compete, Texas may be able to grab a first in the 440-yard dash, a few more points in the century, and a first in the fur-long, where Steer Billy Stewart will battle the Aggies' Red Cecil.

The Owls are ranked as having the fastest mile relay team, but the Longhorn quartet has been steadily improving this fall and a Texas victory would not be overly surprising.

In the half mile and the mile, Calvin Bell, Rice's great middle distance man, is the big favorite. Joe Hart and Tommy McSpadden of Texas clicked off the 880 in 1:58 last Friday and will possibly press Bell. He has little competition in the mile, however.

The shot put appears to be a wide-open affair. In the Texas-L.S.U.-Rice triangular meet here three weeks ago, three Owls—Glassie, Green, and Hartman, finished one-two-three, but since then Pete Werlein, Texas yell leader-turned-shotman, has arched the shot 46 feet, 2 inches, and Bernie Eunas is not far behind his mark. The Aggies always have two or three big weight men who are capable of hitting around the 45-foot mark.

The freshman meet of the three schools, which will be held along with the varsity contest, is likely to see some faster times than the big affair.

Lonnie Hill, sensational Longhorn freshman, has done the 100 in 9.6 twice this year and will be out to try to knock that figure down a percentage point or two. The Texas 440-yard relay team of Blackmore, Roberts, Smith, and Hill, already faster than the varsity, is also scheduled to perform.

## Ex-Champs, Record-Breakers In 29th State Track Meet

Two 1938 champions and two boys who have already bettered state marks in their events will lead the assault on the record-book at the University's twenty-ninth annual Interscholastic League meet which opens here Friday morning with the preliminaries and semi-finals and closes with the finals Saturday afternoon.

Grady Tyler, of Claude, rural pentathlon winner last year, and Douglas Calley of Brady, quarter-mile champion, will be back. From Mexia will come Billy Stephens, who has bettered the present record of 196 feet, 8 inches in the javelin throw by 6 feet, 11 inches. Freer High School sends Lonnie Goynes to try to outdistance the broad jump mark of 24 feet, 1/2 inch. Goynes jumped 24 feet, 1 inch in his district meet.

If this year's meet turns out to be a one-man affair as it has several times in the past, Calley, the blond Brady star, will make it so. He already has run a 9.7 100-yard dash, is fast in the 220, faster in the 440, and is anchor man on his school's crack mile relay team.

Calley will face some tough competition in the century, however, Tyler, of Claude, and Jack Cooley, of Kaufman, have both done 9.8 this spring.

The shot put record of 53 feet, 8 1/2 inches, held by Monte Earwood of Rocksprings, will be in danger when Rockdale's weight star, Ted Weems, enters the throwing pit. Weems has come within five inches of the mark this year and finished third in the shot in 1938.

Weems, along with Boatman of Adamson High, Dallas, and Lewis Mayne, Cuero's football star, is also a favorite in the discus throw, but none of the entries is regarded as able to come close to the record of 154 feet, 6 1/2 inches, which was set by Jake Petty while he was in Kaufman High. Petty later became the greatest discus man in

Southwest Conference history at Rice. Boatman, with a toss of over 132 feet, has the best mark of this year's high schoolers.

The preliminaries will start at 9 o'clock tomorrow morning, the semi-finals will be run in the afternoon, and the finals will be Saturday afternoon at 3 o'clock.

HOSPITAL LIST	
St. David's Hospital	
John Norman	John A. Hatcher
Don Langston	Peggy Christian
Robert Tanner	Estelle Ashton
John E. Terry	Miriam Winkler
William Matthews	Thomas R. Jennings
Carolyn Lofland	Joan Montgomery
Anna Reilly	Claude S. Craven
Lillian Pagach	Maurine Lanell
Stanley Scott	Curtis
Georgia Holmes	William J. Shirley
Adele Fridner	Elizabeth Rachel
Lawrence Scott	
Seton Infirmary	
Eleanor Williams	Jane L. Hawkins
Maurice Shulman	
Ill at Home	
Norma Donigan	Maggie Dell
Robbie Ashmore	Lawrence

### EXES VISIT CAMPUS

Misses Sue Morrow and Bernice Rosenwasser, ex-students from Stamford, visited the campus during the week-end. Miss Morrow received a bachelor of science in Physical Education last June and Miss Rosenwasser received a bachelor of arts degree in 1937. Miss Rosenwasser attended the Sigma Alpha Mu dance last Saturday. The visitors left Tuesday morning for San Antonio.

## 39 of 60 Pass Life Saving Test

Thirty-nine of sixty men who were eligible passed the senior life saving test given Saturday and Monday afternoons in the Gregory Gym pool by Fred Lewis of Austin and Wilbur Washington of Brownsville, life saving examiners for the national Red Cross. The sixty had completed a month's training sponsored by the Red Cross.

Among the requirements were treading water for thirty seconds, floating motionless for one minute, breaking four holds which would be attempted by a drowning person, lifting ten-pound weights from the bottom of the pool, and demonstrating the prone artificial respiration method. As a final requirement the candidates had to write a 200-word essay on the application of artificial respiration.

Classes began Monday night in the Women's Gym pool for senior life saving certificate holders who desire to become examiners. Classes will meet MWF at 7.

## McDonald—

(Continued from Page 1)

cus, while the largest, a ten horsepower motor, revolves the 125-ton dome. One hundred and thirty-seven push buttons are required for operation, with controls located at one master board, two table controls, and four panel controls. Diesel generators in the Observatory's plant furnish current for operation, heating, light, and refrigeration.

The mirror is said to be 1,000,000 times more powerful than the naked eye and it can photograph objects 2,400,000,000,000,000,000 miles distant. It could photograph man at 3,000 miles, except for the earth's curvature.

## Aggie Fish Defeat Baylor Cubs, 9-1

Special to the Texan  
COLLEGE STATION, May 3.—Charlie Stevenson's heady pitching in the clinches paved the way for the A.M. Freshman team's 9-to-1 victory over the Baylor Cubs here Wednesday.

Stevenson allowed seven hits and fanned eight Cubs. His mates made three errors in allowing the only Baylor run.

The Fish got to Jim Duncan for only six scattered hits, but his wildness, coupled with eight errors, cost him the three games. He walked eight and hit three batters.

Jim Allen, Cub third baseman, led the hitters, getting two doubles and a single out of four trips to the plate. Bill Henderson, Aggie first baseman, hit a home run.

The next Fish game will be with the Texas Yearlings in Austin next week.

## Blinker Lights to Be Installed Near Campus

Blinker lights at the intersection of Guadalupe with Twenty-second and Twenty-third Streets, requested last fall by the University Safety Council, will be installed as soon as the equipment can be obtained, Guiton Morgan, city manager, said yesterday.

The amber lights, to blink day and night, will warn motorists of the traffic signal on Guadalupe in front of the Texas Union.

Mayor Miller, when the University safety group requested the lights, instructed the city manager to install the lights. Mr. Morgan said yesterday that the order had been given to the electric department, but that it "apparently had become misplaced in the shuffle."

## New Poet Laureate Reads Poems to House

Lexie Dean Robertson of Rising Star, recently appointed poet laureate of Texas, read selections from her poetry before the House of Representatives Wednesday morning at 11:15 o'clock, in response to a special invitation from the House.

Mrs. Robertson read "I Have

Heard Whippoorwills" from "Red Heels," "Poems and the Believer" from "I Keep a Rainbow," and "Texas," "West of the Pecos," and "My Sins and I" from "Acorn on the Roof." She also read "The World of Tomorrow," a poem which has never been published.

Mrs. Robertson, now on a reading and lecture tour, will be presented before the Poetry Society of Texas Saturday night, May 13.

## ERROR IN FUNERAL STORY

In the story appearing in the Texan on the death of Mrs. Margaret Dohoney, it was stated that Mrs. H. T. Manuel was the daughter of Mrs. Dohoney. The Texan wishes to correct that mistake. Mrs. Manuel was the niece, instead of daughter, of Mrs. Dohoney.

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## —Intramurals—

Thursday, May 4

NOTICE: TRACK ENTRIES CLOSE TODAY.

FINALS IN SWIMMING TONIGHT AT 7:30

TENNIS TEAM

Fraternity Finals

5—Winner of Busby, Well; Baskett and Browning (ATO) vs. Nalle, Townsend; Beery and Spears (DKE) vs. winner of Lee, Rhoades, Ware and Hutcherson (SAE) vs. Granville, Stewart; Hubbard and Stephens (DKE).



# The Daily Texan U. T.'s New Lab

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## Propaganda

(Editor's note: the following essay, by a freshman student, was written in an English class of Dr. G. Louis Joughin, assistant professor of English).

### AN ARGUMENT AGAINST ANTI-TOTALITARIAN PROPAGANDA

TODAY, the public is a target for a constant fire of propaganda. We see events of world significance reproduced in the movies, we hear about them over the radio, we read about them in newspapers and magazines; but always these events come to us distilled, magnified, or distorted and twisted about to suit the tastes and interests of the agents that bring them to us and the public's desire for sensational news. It is rare indeed that we get unbiased, down-to-earth facts. Organized groups decide that the American public should believe a certain doctrine or receive certain information tending to lead to desired results, and the first thing we know we are accepting and believing the facts that bombard us from all sides—we are in the process of forming a hasty attitude towards the dictatorial powers, which is neither beneficial to us or to them. In this essay I wish to deal with this anti-totalitarian propaganda, for it is undoubtedly the most important phase of propaganda that now faces us.

One of the methods of spreading propaganda is through the movies. It is a good method, for nearly everyone attends, and people, too, are more likely to believe what is set before their eyes. Not long ago, an issue of the "March of Time" came out which dealt with the refugee problem. The picture showed the plight of the Jews, the Spanish Loyalists, and the Chinese refugees and scenes of their flight from oppression. The reel continued by showing various possible havens for the Jewish refugees. Not content to leave it at that, there appeared interspersed real and faked scenes of Nazi oppression in Germany; scenes showing how people were mistreated by storm-troopers; scenes showing how people were driven out of their homes, their businesses confiscated, and left to migrate where they could. The picture was accompanied by a narrator whose voice shook with emotion as he explained the scene. The climax of the picture was a scene showing Hitler saluting his storm-troopers, and, by this time, almost everyone in the theater joined in the general booing and hissing, partly through fun, and partly through genuine hatred. Now I can hardly imagine a cameraman being received at Nazi headquarters, and being allowed to take pictures of government files and government maneuvers—no government will allow this. Nor can I imagine a cameraman following storm-troopers around taking pictures of their movements and going into Jewish homes with them to record their methods. But least of all, can I imagine the Nazi government allowing such pictures to be taken out of the country even if they had been taken. These pictures may be a fair representation of what is taking place behind the scenes in Germany, but the fact remains that they were produced in Hollywood and not in Germany. They, therefore, come under the heading of propaganda. In other words, the producers of the "March of Time" are going from effect to cause along the lines of popular reasoning, thus adding to popular beliefs, which may or may not be true.

Another method of spreading anti-totalitarian propaganda is through newspapers, magazines, and books. The most important of these publications are the newspapers, because they, more than magazines or books, are hastily written, expressing opinions of the moment without careful analysis of the facts. Newspapers tend towards sensationalism because the newspapers naturally have not time to allow emotions to simmer down until they can be differentiated from the facts. Then, too, newspapers are commercial enterprises as well as sources of information. Thus, when these two functions conflict, we may have propaganda, for the newspapers cannot serve two masters, that is, their political and commercial bosses, and truth. For instance, the Nazi meeting that was held in New York not long ago has created quite a furor in newspapers and magazines. Articles and editorials have been spread far and wide concerning the appearance of Nazism in the United States. Now, in my opinion, the group in New York is either publicity-conscious or is composed of people who admire Hitler's attitude towards the Jews. However, supposing the members of this group are followers of Hitler in the true sense of the word, they merely represent the trouble-makers who appear in every land and among every people. They are not to be feared any more than the Communist

TOMORROW TWO great Texans will be honored at the dedication ceremony of the McDonald Observatory: Dr. H. Y. Benedict and W. J. McDonald.

Dr. Benedict, late president of the University, in 1927 took the office as head of the State's largest educational institution with one purpose in mind: developing the University into one of the greatest educational institutions in the country. During his ten years of service as president, the University did develop. The University campus, in 1927 cluttered with wooden shacks, before his death in 1937, was studded with beautiful, modern structures. The University's enrollment had nearly doubled.

"Dean Benny" took office with nothing but the University at heart and he gave his all toward placing it among the best. Deep in his heart, however, Dr. Benedict had a pet idea which he longed to see the University carry out: Dean Benny wanted the University to own and operate a first-class astronomical observatory.

Friday afternoon at Mount Locke in the Davis Mountains in West Texas, internationally famous scientists and officials of the Universities of Texas and Chicago will dedicate the opening of the McDonald Observatory, a true realization of Dr. Benedict's "pet hope."

During the last five years of Dr. Benedict's term of office, he spent many hours working and planning for the McDonald Observatory. He worked out the details with representatives of the University of Chicago as to the co-operative management plan to be used for the Observatory. He and Dr. Robert M. Hutchins, president of the Chicago institution, outlined the plans for the world's second largest telescope and observatory.

But as fate would have it, Dr. Benedict did not live long enough to see his dream come true. Before his death, however, the mirror polishing process had been in process for quite some time and the construction of the observatory was nearing completion.

A student, scientist, printer, lawyer, and banker—such is the life history of William Johnson McDonald, son of one of the pioneer settlers of North Texas and great benefactor of the University. At first a student of the natural sciences in general and botany in particular, his interest shifted gradually toward astronomy. At one time he was said to have jokingly remarked to his Negro barber that one day he would build a telescope large enough to see the gold-paved streets of the New Jerusalem. Upon his death, he left to the University a \$1,000,000 fund for the construction of an observatory. Court action, however, cut this amount to \$800,000.

The McDonald Observatory will be a true memorial to W. J. McDonald, one of the state's greatest pioneers.

Party is to be feared. Free speech is a guarantee of our Constitution, and therefore we can do nothing about these meetings. Furthermore, perhaps it is best that these trouble-makers have a chance to blow off steam. So why do the newspapers and magazines cause such an uproar? They are merely catering to the public's desire for sensation.

The radio, as well as the movies, is a recent innovation in the propaganda field, and its possibilities are unlimited. Propagandists make use of it, too. Not a single day goes by that we do not receive their doctrines in some form or another.

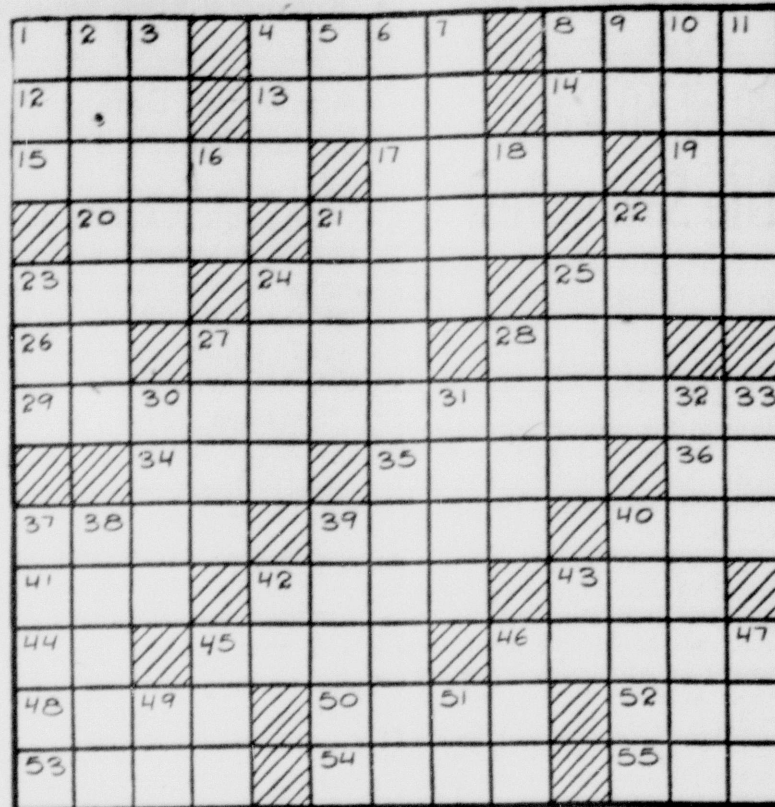
Who or what is behind all this propaganda? Could it be the leaders of industry who had so much to do with the last war? This is possible, but not probable. Could it be the political leaders of our country and those of other democratic countries of the world? This is possible, too, for perhaps they see what the ordinary man does not see—the inevitable clash between dictatorships and democracies. But the most likely possibility of all, is that this propaganda is the result of a general movement or reaction brought about by the unpredictable movements of the dictators abroad and the appearance of Communism and Nazism in various parts of the United States. If this last be true, it is certain the politicians and industrial leaders, although not directly responsible, have a finger in the pie somewhere; for pleasing the public is their livelihood. Thus we have a set of natural conditions for the spreading of propaganda.

The effects of propaganda are often harmful. First, the uneducated masses accept almost anything they see, read, or hear, and are easily led astray; they are guided by emotions rather than intellect. The recent Mars scare is a typical example of this. Therefore, there will develop a hatred for totalitarian governments among the people as a whole. Secondly, misunderstandings among the nations will arise, as they have done recently through unfavorable criticism of totalitarian governments by our political leaders. And last but not least, in times of crisis, when one wrong step will plunge our nation into war, the American public will be unprepared to make rational judgments.

It is because of these disastrous effects of propaganda that we must fight it. The question is how. In view of our Constitution, which is the backbone of our democratic government, we must fight it through education. This is the only way, because all of the customs and traditions of the American people guarantee free speech and a free press. But once the public has been educated to distinguish between propaganda and facts, they will be able to accept what they see and hear for what it is, and not be so easily led astray.

—REX R.

## Today's Cross Word Puzzle



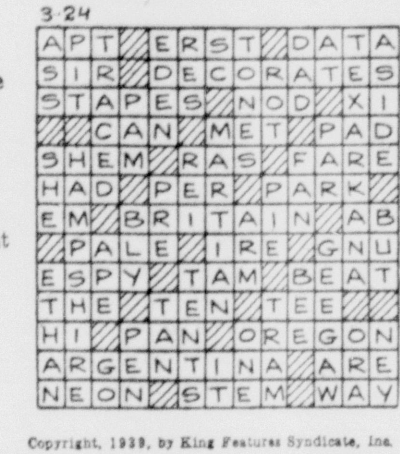
### HORIZONTAL

- 1—suitable
- 4—metallic dross
- 8—girl's name
- 12—perceive
- 13—sharpen
- 14—soon
- 15—product of bees
- 17—Asiatic kingdom
- 19—biblical pronoun
- 20—negative
- 21—Gael
- 22—kitchen utensil
- 23—container
- 24—sunken hedge
- 25—young horse
- 26—symbol for silver
- 27—falsifier
- 28—mountain pass
- 29—alternating in movement
- 34—beast of burden
- 35—not any
- 36—peacock butterfly
- 37—strong fiber
- 39—active agency
- 40—peruse

### VERTICAL

- 1—tree
- 2—Mexican labor system
- 3—projection for mortise
- 4—timid
- 5—behold!
- 6—erroneous in date
- 7—Italian city
- 8—eccentric rotating piece
- 9—upon
- 10—regal
- 11—concerning
- 16—Latin conjunction
- 18—nearby
- 21—German mining district
- 22—game played on horseback
- 23—conveyance
- 24—human joints
- 25—pigeon loft
- 27—speak imperfectly
- 28—tilt
- 30—arrived
- 31—fruit of pine
- 32—roisterers
- 33—in that place
- 37—filaments
- 38—laud
- 39—ornamented slab
- 40—Japanese peninsula
- 42—exist
- 43—symbol for chromium
- 45—encountered
- 46—Babylonian deity
- 47—incline
- 49—thus
- 51—correlative of either

Herewith is the solution to yesterday's puzzle.



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## The Firing Line

### CAN HE PROVE IT?

IN THE RECENT sizzling set-to between the sexes Mr. Jack Guinn has made the following statements in his column of April 28:

"Why statistics prove that women make the best nurses, school-teachers, martyrs, and mothers."

I regret to inform you that the latest available statistics disprove part of your statement and, as one of the hated males, I feel that justice demands the rectification of your error.

The latest statistics were published in the Austin American Monday morning and read as follows:

"... 57 per cent of the men, and 61 per cent of the women report no children. To 12,233 men graduates were born 7,727 children; to 6,359 women graduates were born 3,463."

The above statement needs no explanation and clearly proves that the expression "women have more children than men" is not based on fact.

### THE WAY OUT

TO DESTROY Hitler and Mussolini together with their war machines, including that of the Japanese, would no more cure the world's ills than would the epidemic of yellow fever in the Canal Zone have been stopped by icing down the fever of the infected.

Before the great canal could be built the breeding places of yellow fever mosquitoes had to be drained.

Likewise if we would cure the world's ills we must drain the swamps where the war monstrosities breed. Once we locate the stagnant pools and drain the breeding places the results are sure.

But of course it will take huge efforts to construct and maintain the drainage ditches. There is no harder work than digging ditches nor is there more dangerous work than digging ditches in swamps infested with yellow fever mosquitoes.

There are those who believe that for anything to be practical one must be able to photograph it, one must be able to weigh and measure it. Nothing can be further from the truth. Human relationship cannot be weighed, measured nor photographed, yet human relationship is—the thing out of which war and peace are made.

That least of all things—attitude—is the thing out of which is made life and death, war and peace, wealth and poverty, weakness and strength, Heaven and Hell!

That man Jesus, the carpenter of Nazareth, had found the stagnant pool, he pointed to the location of the drainage ditch when he said the way to begin your prayer is "Our Father."

Thomas Jefferson repeated the same thought when he said, "All men are created equal and are

## REINA'S RITINGS

By REINA DANCIGER

### RELATION

Old Mother Hubbard  
Went to the cupboard  
To get the bottle of gin  
But when she got there  
The cupboard was bare  
HER DAUGHTER ALREADY  
HAD BEEN!  
—REINA.

### MENTAL TELEPATHY

"Sex is only in the mind"  
The wise old Medic said  
"The student body please will  
Keep this thought well in the  
head"  
"You have ten kids Professor—  
so—  
You and your good wife  
Must have done a lot  
Of "THINKING" in your active  
life!"  
—REINA.

### 'FAUX PAS'

Hubby comes home at an unearthly hour  
With a golden hair on his sleeve!  
"I was currying a horse, My  
Dear, he said—  
That should not be hard to believe."

"Well, I've never heard of a blond horse," she said  
"And to prove you're an ornery pup  
Today while you were "out at the track"  
THE "BLOND HORSE" CALLED YOU UP!  
—REINA.

### "THE BUTTON"

In this streamline age we're living  
Things are ultra-modern plus  
With electric power doing  
Most everything for us  
When we have dirty dishes  
Piled up in the sink  
We just push a button  
We don't even have to think  
And presto! they are washed  
and dry  
Without a tub or rub  
And waiting for us once again  
To fill them up with grub.

We simply push a button  
If we want a light  
We just push a button  
For music—day or night  
We push a button when we start,  
And when we want to stop  
Life without push buttons  
Would really be a flop.

For we've learned to push a button  
To cook—and eat—and sew  
How we could live without them  
I wouldn't even know.  
Now if some guy with a magic brain  
Would only use his bean  
And invent a "SINGLE BUT-TON"  
(If you know what I mean)  
That would push all other buttons  
We could sit back in our seat  
And push that "SINGLE UNIT"  
Then life would be complete.  
—REINA.

## Official Notice

THE UNIVERSITY CHORUS will not meet on Friday this week.  
E. W. DOTY, dean,  
College of Fine Arts.

LONGHORN BAND MEMBERS: The annual election of officers will be held Thursday at 7:30 p.m. All members are urged to be present.

JOHN DUNLOP,  
president.

Italians, Chinese, English, French, Americans—for the sake of ALL men EVERYWHERE there is but one way out, the Kellogg Pact must be maintained, protected by the blood of all nations.

The time is now ripe, the clock has struck. America, being the most powerful, the most indirectly concerned, must summons the world to a recognition of the pledge that all have made. For this world "Under God must have a new birth of honor that government of the people, by the people and for the people shall not perish from the earth."

—R. M. BARNES.

## The STEER STANDARD

By BOYD SINCLAIR

### THE DISTAFF SIDE

IT APPEARS that that portion of society derived from a rib, until of late confined to proper places such as the kitchen and the harem, does not like utterances against its members which have been made by me and my colleague, Mr. Jack Guinn.

One morning in this particular section of the public prints, I wrote "This Morning's Advice to Women." Mr. Guinn goes more strongly into the matter with "Hate Women." For this, Mr. Guinn and I were lacerated instead of leaped on. Later I made the following observation in print: "Women Aren't People."

The next day big women, little women, and middle-sized women confronted me with belligerent attitude. "Women aren't people," I still maintained. Then I made the following observation verbatim: "Women Are Goddesses."

They all relaxed and went away happy.

I do not trust women because they will not do what they say they will; but curse my mortal soul, I am always studying about them.

I do not trust women because they have two standards; but curse my human body, I am always doing something about them.

They have a double standard and a single standard, and they will use whichever one will benefit them most.

### Woman

Of all the world's things that to man are constrictions, A woman's the greatest of all his afflictions.  
She'll run from a bug in a rug or a mouse,  
A katydid, flea, or a louse on her blouse.  
She'll take man for love and then take his money,  
And he's taken in so bad that it's funny.

She'll smooth a man's hair before she is wed;  
Afterwards she'll touse it up on his head.  
By heritage cruel, deceitful, and blind,  
If there's an advantage, she's faithful and kind.  
Sometimes she is bad and sometimes she is good,  
But won't make the right choice whenever she should.

Mamma said she was this, but I find she is that;  
To be a guest in his happy valley the rest of my days. I accepted.  
But one day a woman and a pandahandler both showed up going in different directions. The Man of Old and I took out after the woman.

She'll yell, purr, and spit, or scratch like a cat.  
In the daytime she will, in the evening she won't—  
Oh, she'll want to do whatever you don't.  
In the evening she won't, in the morning she will—  
Oh, woman's a species that gives me a chill.

Mr. Guinn and I have the philosophers on our side. Not many years ago I was monkeying around a monkey in Shibet looking for one of the most elusive animals in the world, the pandahandler, which lives in those tall, forbidding, and mysterious mountains, where the snow and wind forever howl like possessed demons.

One evening I climbed weary and alone to the highest peak, where I stood disquieted in the high wind because I could not find the elusive pandahandler of Shibet. Around the shoulder of the granite mountain something stirred. I thought it was a footfall that I heard. So I bowed against the wind and went in that direction.

I made my way around the rock, and there was a happy valley. There sat one of the Men of Old reading from a book embellished with monkish scrawls.

"Greetings, venerable patriarch," quoth I. "Can you direct me in the way of the elusive pandahandler?"

"Nay, wandering youth. Thy search be fruitless. The women killed them all for coats and coverings. The beast is extinct. Curses, he was our greatest economic resource. Read here what Confucius hath compiled in 'The Shi King.'"

I opened the book and read as follows:

### Woman

"A clever man builds a city. A clever woman lays one low; With all her qualifications, that clever woman  
Is but an ill-omened bird. A woman with a long tongue Is a flight of steps leading to calamity;  
For disorder does not come from Heaven,  
But is brought about by women.  
Among those who cannot be trained or taught  
Are women and eunuchs."

And the Man of Old invited me to be a guest in his happy valley the rest of my days. I accepted. But one day a woman and a pandahandler both showed up going in different directions. The Man of Old and I took out after the woman.



## Mother Deserves What She Wants

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How about a telephone call to Dad?  
Rates to most points are lowest any time after 7 P.M. and all day Sunday.





# Orene Wilborn Installed President at H. E. Banquet

## Rannie Hulett Wins Award

By DOROTHEA LYLE

Orene Wilborn was installed president of the Home Economics Club and Rannie Hulett was announced as winner of the scholarship award at the twenty-fifth birthday banquet of the club last night in the Texas Union patio. The silver anniversary banquet was for the pioneers in the University's Department of Home Economics.

Tables, on which were placed bouquets of queen's lace and cornflowers, radiated from the fish pond, and the scene was illuminated with blue lights. Cornflower nosegays wrapped in silver paper also represented the colors of blue and silver in the decorations.

Margaret Dupree, past president of the club, was toastmistress. Miss Mary Gearing, Miss Dupree, and Miss Wilborn spoke on the past, present, and future of the organization, and Mrs. Velma Lois Schulz sang.

Miss Gearing and Miss Lucy Rathbone, professors of home economics; Miss Dorothy Gebauer, dean of women; Miss Jeanie Pinckney, director of the Nutrition and Health Education Bureau; Miss Selma Streit; Miss Edith Kirkland; and Mrs. W. A. Smith were introduced as pioneers of the department.

Each outgoing officer, as she was introduced, exchanged places at the speaker's table with the new officers. New officers installed were Miss Wilborn, president; Mildred Rutland, vice-president; Ruby Palmquist, business chairman; Rannie Hulett, chairman of food committee; Frances Dunlap, counselor; Larue Barrier, senior representative; Willa Gidley, sophomore representative; Hazel Mitchell, secretary; Fae Bass, state delegate; Velma Lee Weir, historian; and Janice Owen, treasurer.

Miss Hulett, winner of the scholarship award, is from Austin and is a junior student in the University.

Miss Dupree was assisted in arrangements for the banquet by Jo Jones, chairman of committee on attendance; Anna Beth Ratliff, program committee; Ruth McPhail, publicity; Anna Marie Schultz, committee on guests; and Janice Owen, committee on guests.

## Chemists Try 'Black Magic' At Banquet May 8

The "black magic" of chemistry will prevail at the fifth annual banquet of Phi Lambda Upsilon, national honorary chemical fraternity, at Austin Country Club, Monday, May 8. More than one hundred faculty members and guests will attend.

Pink and blue candles will cast weird shadows on ebullimeters, pear condensers, distillation equipment, and fractionating columns. Place cards made from hexagonal benzene rings will be placed at the side of the chemical glassware to be used in serving the dinner. Inside the ring a piece of cellophane will contain the name of the guest.

Dr. H. R. Henze, chairman of the Department of Chemistry and counselor of the Phi chapter, will be the principal speaker.

Officers for 1939-40 will be installed at the banquet, which is the only meeting of the year girls are permitted to attend. New officers are: Edwin Redding, president; John Files, vice-president; Andrew Patterson, secretary; Sam Muery, reporter; Guy McBride, social secretary; and Dr. G. W. Watt, faculty sponsor.

## DALLAS CLUB TONIGHT

The Dallas Club will meet tonight at 7:30 o'clock in Texas Union 316 to make plans for its last social affair of the year. Club members will meet May 14 to go on a hayride and picnic. All members are urged to attend tonight. Elliot Small, president, said, to decide where the picnic will be and to make all other final arrangements.

## PI BETA PHI ALUMNAE

Mrs. Sully B. Roberdeau will be hostess to the Pi Beta Phi alumnae group at her home when they meet for a business and social session Friday at 5 o'clock in the afternoon. Mesdames Earl Cornwell, Roy Rather, Tilford Shoot, and Henry W. Taylor and Miss Margaret Robertson will assist.

## HOUSE MANAGERS

Bill Darden, University student from Waco and member of Kappa Sigma fraternity, was elected president of the Interfraternity House Managers Association at the association's last meeting of the year Monday night at the Sigma Nu house. Lowell Wilkes, Phi Kappa Psi, was elected secretary, and Stanley Busby, Alpha Tau Omega, was elected treasurer.

## For Moonlight Nights



The members of the Home Economics Club would have been at ease in this graceful crepe Roma dinner frock of robin's egg blue last night in the Texas Union patio. The brief jacket is embroidered in yellow, blue and brown, with the same colors repeated in the chunky bracelet. The new short hairbomb has supplanted the "up-sweep."

## Junior and Senior Girls 'Date Up' For Swing-Out Next Week

"Every senior needs a junior," said Mrs. Kathleen Bland, assistant dean of women, Wednesday in reference to the seventeenth annual Swing-Out to be held Friday, May 11, at 5 o'clock in the afternoon. Women of the senior and junior classes are being urged to make "dates" with each other for the Swing-Out processional, Mrs. Bland said.

This is the first occasion on which caps and gowns will be worn by the 1939 graduates of the University. Senior girls will wear their graduation costumes when they pass the bluebonnet chain to the junior girls. The Baccalaureate Sermon on Sunday, June 4, and Commencement Services on Monday, June 5, will be observed by approximately five hundred and ten graduates dressed in black.

Tassels for caps are of different colors, according to the degree. Appropriate tassel for master of arts, white; for doctor of philosophy, gold; for bachelor of business administration, drab; for engineering, orange; for pharmacy, olive; for journalism, black and white; and for physical education, sage.

Master of arts graduates wear hoods with a wide velvet edging, and doctors of philosophy wear hoods with the full lining exposed with a wide velvet edging and wide panels on either side.

CHI OMEGA INITIATES

Chi Omega sorority held formal initiation Tuesday night at 7 o'clock for Anna Beth Bedford, Midland; Patricia Jane Marshall, Anahuac; Betty Hodgins, Chihuahua, Mexico; and Joan Whitmire, Ganado.

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## Wedding Bells

WEDDINGS

BURNS-ROLLINS—Miss Mari-gold Rollins of Austin, who received her bachelor of arts degree from the University in 1938, to H. A. Burns of San Diego, Calif., April 24, in Port Arthur. The couple will leave Thursday for New York to make their home.

## Engagements

BRATTON-RANDOLPH —Miss Helene Randolph, 1937-38 student from San Antonio, Chi Omega, daughter of the late Captain William Randolph, for whom Randolph Field was named, to Leslie Raymond Bratton, U.S.A. cadet, Beta Theta Pi, graduate of Randolph Field and of the University of Denver, now awaiting graduation from Kelly Field.

CALLOWAY-HOPKINS —Miss Mary Charlotte Hopkins of Victoria, ex-student and member of Pi Beta Phi sorority, to Howard Calloway.

HOWE-EAGLESTON — Polly-ann Eagleston of Houston, member of Chi Omega sorority who received her bachelor of arts degree from the University in the Summer Session of 1938, to Lieutenant Charles Joseph Howe of Langley Field, Va.

## Miss Wester Tells Mexico Experiences To Literary Club

Alyne Key, Helen Shireman, and William Johnson were chosen to plan a picnic at the final meeting of the Mexican Literary Club, Monday night at the Faculty Women's Club.

Miss Lillian Wester, instructor in Romance languages and sponsor of the club, spoke on her personal journalistic experiences in Mexico. Miss Wester based her address on her work as a diplomatic reporter for the Mexican Herald, the highest position for a reporter in a capital city.

Jane Allen gave an interpretive Spanish dance, and Archie Heap, accompanied by Lee Norrell, sang two songs. A piano solo by Jean Rector and a saxophone solo by Charles Keuper completed the program.

## DR. ALBERS MADE HEAD

Dr. C. C. Albers, associate professor of pharmacy, was elected president of the Brotherhood of the United Lutheran Church Sunday at the eighty-second annual convention of the Texas Synod in Dallas. The meeting was held at the First United Lutheran Church.

## KIRBY HALL ADVISERS

Newly-elected Kirby Hall upperclass advisers for the next year are Mary Ruth Huntington, Lillian Ross, Ruth Naylor, Vivian Whites, Frances O'Neal, Pansy Lee Porter, Margaret Sullivan, Julia Lee Daniel, and Rena Belle Crowover. They were selected by vote of the girls of Kirby Hall.

## VILLARREAL TO CHICAGO

Jesse Villarreal, instructor of public speaking, received a teaching scholarship from Northwestern University in Chicago. He will leave with his wife and small daughter soon after examinations. Mr. Villarreal will study speech defects.

## FENCING BANQUET

Officers of Eta Phi Upsilon, honorary fencing fraternity, will be elected and installed at an informal banquet tonight at 7:30 o'clock in the wine cellar of the New Madrid. Members should make reservations with Jay Ryan, chancellor.

# 4 Literary Societies Will Picnic Today

The literary societies will desert literature today and go picnicking at Barton Springs.

The Sidney Lanier Literary Society will leave the Y.M.C.A. at 5 o'clock. New members and officers of the club will be special guests. All members planning to attend should make reservations for rides with Rosella Riskind, chairman of the arrangements committee, or with Alma Widen, retiring president.

The Ashbel, Reagan, and Pierian Literary Societies will have a swimming party and picnic at Barton's from 4 to 6 o'clock. Rides will be furnished from the Texas Union.

## WEST TEXAS CLUB

Jimmy Pitt, campus writer and vocalist, will give his ideas of writing and presenting songs at the West Texas Club meeting tonight at 7:30 o'clock in the Main Lounge, Texas Union. Pitt has appeared in several campus shows, in solo parts and with the Co-Ed Trio.

All ex-officers of the club who are still attending or who are connected with the University will be special guests at the meeting. Plans will be made for the program for next year, and committees will be appointed to contact students during the summer.

## SOUTHEAST TEXAS CLUB

The Southeast Texas Club will elect officers at its final meeting of the year tonight at 7:30 o'clock in Texas Union 309. Plans will be discussed for a dance to be held in Beaumont during the summer. Lee Shoptaw has announced.

## HOUSTON CLUB MONDAY

The Houston Club will meet Monday to discuss a picnic at Bastrop on May 14.

A summer banquet for prospective freshmen in Houston also will be projected. The Ex-Student's Association of Houston will co-operate in the banquet and in a dance to be given in Austin before the Rice-Texas game next October. Monday's meeting will be the last of the year.

## SCANDINAVIANS ELECT

Lawrence Rosenblad was elected president of the Scandinavian Club at a picnic Saturday night at Barton Springs. Leonard Larson will be vice-president; Signe Marie Swanson, secretary; and Erlend Anderson, sergeant-at-arms. Faculty sponsor will be S. N. Ekdahl, instructor in physical training. Meeting time of the club has been changed to the third Tuesdays.

NEWMAN BUFFET TONIGHT

The staff and upperclass advisers of Newman Hall will have a buffet for the advisers and social directors of all University houses and dormitories for women Thursday afternoon, May 4, at 6 o'clock at Newman Hall. Miss Dorothy Gebauer, dean of women, will be a guest.

MAY

LUGGAGE Event

Correct Luggage for Any Travel Event. Complete Sets of Hartmann—Mendel—Atlas and Other Nationally Known Lines of Smart Travel Goods.

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All the above listed items are of select cowhide leather and will be replaced free if they fail to give satisfactory service.

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510 CONGRESS

MOTHER'S DAY

MAY 14th

Just thirty-one years ago, the first Mother's Day was originated by Ann Jarvis of Philadelphia, who was inspired to work toward the official recognition of such an event by reverence for her own beloved and accomplished mother. In 1914, Woodrow Wilson, as President, proclaimed Mother's Day as a national day of observation by children of all ages—everywhere. This is another Mother's Day—1939—and there is no one among us so preoccupied, so distant, or so heedless of the blessing of having a mother to cherish—that we can let the day slip by without expressing our thanks to God . . . and to her . . . your mother and mine!

SONS AND DAUGHTERS TOGETHER WILL REMEMBER

A NATIONAL EVENT

MOTHER'S DAY

232 MAY '39

ONE CENT

THURS. ONLY

Our buyer rushed to market and made a purchase of 2,000 pairs of new spring and summer outstanding \$3, \$4, and \$5 footwear. They have been rushed to this store for a phenomenal ONE-Cent SALE.

Whites, Tans, White Linens, Black Patents, Navy Blues, Combinations and colors in sandal effects of open and closed toes, dress shoes, nurse shoes, arch and sport shoes, evening slippers.

Shop Together. Bring a Friend for This Largest Selection of New Spring Footwear.

Buy Now And Save. The First Pair at These Prices and Get the Second Pair FOR

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3. 1st Pr. 4.95, 2nd Pr. 1c

COME EARLY!

Beta & Lee



## Actors Risk Careers In 'Let Freedom Ring'

By BERNARD SEIGLE

Tucson Amusement Staff

I feel quite sure that had George Washington known some of the pitfalls awaiting democracy in the Twentieth Century, he would have either crossed the Delaware on a neutrality platform or conducted his government on a straight anarchist ticket. Were he around today, he might, perhaps, be lenient toward Hitler and his mad cohorts. He might even excuse Mussolini on the grounds of a double chin. But if he were any student of the drama at all, he would, should he walk in on "Let Freedom Ring," retire with his wife to some secluded corner of this militant world and devote his time exclusively to the principles of Martha Washington candles.

"LET FREEDOM RING"—At the Paramount. Original story and screen play by Ben Hecht. Photographed by Sidney Wagner. Produced by Harry Rapf. Directed by Jack Conway. Released by Metro Goldwyn Mayer. The cast follows:

Nelson Eddy  
Lionel Barrymore  
Jill Knox  
Edward Arnold  
The Mackeral  
Charles Butterworth  
Chris Milligan  
Victor McLaglen  
Maggie Adams  
Virginia Bruce  
David Bronson  
Guy Kibbee  
Rutledge  
H. B. Warner  
Underwood  
Raymond Walburn

Nothing ever attempted by Sergei Eisenstein even approaches "Let Freedom Ring." It is the most undisciplined holocaust of propaganda, disguised in the patriotic robes of entertainment, to flash across the American screen within recent memory. I don't deny for a moment that these are perilous days—times when Americans should regard democracy as a servant, not as a subterfuge, and the American Way the Only Way. But there are limits to patriotism, and unless you are unduly chauvinistic, this is one of them. I know, now, why Dorothy Thompson laughed at the Nazi Bund meeting in Madison Square Garden. I wanted to laugh at "Let Freedom Ring," too, but for an entirely different reason.

What amazes me is the fact that the film story was written by Ben Hecht, who will get to Quito soon and never come back if he keeps this up. His story, as subtle as a Wasserman test, and a cure for nothing, combines the worst features of "Ten Nights in a Barroom," "East Lynne," "The Beast of Berlin," and "Tom Swift Among the Enemy." It is jingoistic gibberish that uses the railroad (the setting is the virgin West of pioneer times) as the dastardly villain, and a gang of unscrupulous land-grabbers as the big, black moustache. It's Opportunity versus Oppression, MGM style. Mr. Eddy, who skips from Ah! Sweet Mystery of Life to My Country 'Tis of Thee with all of his outspoken lack-lustre intact, is the Robespierre of the West, a wilted flower who needs only a smile from his lady and a scowl from his father to burst into a hothouse of rebellion. Those of you who doubt his virility have only to see him wallop Victor McLaglen into a pulp of Irish pellets. Mr. McLaglen, since he isn't an extra, gets up from the ground with studio blood on his manly chin, and suffers the greatest blow, I imagine, to his pride. "Let Freedom Ring" has been peopled with an unusually strong cast but if the actors' careers survive after this there aren't enough Academy Awards in Hollywood. If this is how Hollywood discovered America, let's give it back to the Indians.

## RECENT RECORDS

To be specially commended among recent recordings is the new Victor two-pocket album of the "Suite for Strings," derived by John Barbirolli from "dramatic music" of Henry Purcell and played by the Philharmonic-Symphony Orchestra of New York under Barbirolli's baton.

Purcell (ascended on the first syllable, you know) is one of the brightest spots in English musical history, and this suite helps show why. Of additional interest to students of literature because the music is associated with the plays of Dryden and other writers of the day, it is nevertheless capable of standing alone as "pure" music, whatever that may be.

Big thrill comes in the moving "Lament of Dido" from Purcell's "Dido and Aeneas," the first English opera. Like the rest of the suite, this particular section is orchestrated with discernment and simplicity. The fine Philharmonic strings, together with a few solo woodwinds, do a splendid job throughout.

Johann Sebastian Bach flourished a half century after Purcell. Though this German's music is usually better known and more popularly appealing than the Englishman's, the Bach album this month changes matters somewhat. On three twelve-inch Victor discs is presented Bach's "Concerto in A Minor" with Yella Pessl, harpsichordist; Frances Blaisdell, flutist; William Kroll, violinist; and string orchestra conducted by Carl Bamberger. Yella Pessl's harpsichord playing is brilliant, and the whole ensemble is good. The third movement especially offers excitement.

This is not one of the familiar

## Airwaves

Daily Texan on the Air



KNOW at 10:15

Kate Smith will celebrate a double anniversary today, her birthday and the beginning of her ninth year on the CBS network. Constance Bennett will be on hand to help her celebrate at 7 o'clock tonight. Kate will repeat the four tunes she sang on her first broadcast, May 1, 1931. They are, "I Surrender Dear," "By the River Saint Marie," "Dream a Little Dream of Me," and "Please Don't Talk About Me When I'm Gone." She will sign off the program with "When the Moon Comes Over the Mountain."

Ray Heatherton, baritone, is again guest on "Tune-Up Time" at 9 o'clock over WABC-CBS. Andre Kostelanetz and his orchestra and Ray Thompson and her Rhythm Singers will contribute to the program while master of ceremonies Walter O'Keefe gives his weekly roundup of news highlights in his fantastic style.

Columbia network also presents a Kentucky Derby Preview over CBS at 1:45 o'clock this afternoon. The Columbia Concert Orchestra, conducted by Howard Barlow, will broadcast at 4 o'clock this afternoon.

Late dancers may swing to the music of Henry Busse, Charles Baum, Sammy Kaye, and Leighton Noble orchestras from 10 until 12 o'clock midnight.

Hal Kemp's orchestra may be heard over WLW at 9:30 o'clock tonight, and Eddy Duchin's orchestra may be heard over the same station at 10:30 o'clock.

Rudy Vallee Hour will be broadcast over station WOAI at 5 o'clock this afternoon; Good News of 1939 at 6 o'clock; and Kraft Music Hall at 7 o'clock tonight.

—ANN HARRELL.

## Spears Brothers Get Theta Xi Award Cups

Harold and Jean Spears, brothers, received the loving cup awards presented to the two outstanding members of Theta Xi fraternity by Keith Forman Saturday night, April 29.

Harold Spears received the award for the best active member; and Jean, for the best pledge.

The cups were presented at the fraternity's celebration of its seventy-fifth jubilee as a national organization.

Selection for the awards was made by secret ballot of the entire University chapter on a basis of scholarship, extra-curricular activities, fellowship, and general worth to the fraternity.

Bach works, and some listeners have difficulty in cultivating a taste for the harpsichord tone, but these are not valid complaints, though they may not encourage popular consumption.

Among the individual discs, loud huzzahs are due the Stokowski-Philadelphia Orchestra recording of two of Erik Satie's delightful compositions on a ten-inch Victor, "Gymnopédie No. 1" marked "lent et grave" and "Gymnopédie No. 2" marked "lent et douloureux" are distinctly but not harshly modern.

We haven't heard it but we can hardly wait — "The Droschky Drag," a fox trot after Tschalkowsky's "Andante Cantabile," recorded for the Victor dance list by New Friends of Rhythm, regulation string quartet plus bass, guitar, and harp.

—J. OLCUTT SANDERS.



## Two U. T. Profs Speak on Art

Lockwood, Mozley On Meet Program

Two University teachers, Ward Lockwood, professor of art, and Loren Mozley, instructor of art, will participate in the twenty-ninth annual convention of the Texas Fine Arts Association, to be held Friday and Saturday in Austin.

Mr. Lockwood will address the association at a dinner Friday night at the Texas Federated Women's Club Building on the subject, "The Plans of the Art Department."

"Transition of Art" is to be the subject of Mr. Mozley's speech at a luncheon Saturday on the grounds of the Elisabet Ney Museum.

Friday's program includes a board meeting at 3 o'clock and a reception and preview of Texas art at 7 o'clock at the Texas Federated Women's Club building. There will be a banquet at 8 o'clock for association members.

A coffee at 9 o'clock Saturday morning at the home of Dr. Z. T. Scott will be followed by a business meeting at 11 o'clock at the Ney Museum. After the luncheon at 12 o'clock, a short board meeting will follow with an election of members.

## Tau Delta Phi Wins Hillel Stunt Prize

For the second year in succession Tau Delta Phi fraternity will receive a silver loving cup in recognition of the best performance of the annual Hillel Stunt Nite. In the auditorium of the Architecture Building last night their burlesqued rendition of "Idiot's Delight" won first place over six other organizations, Alpha Epsilon Phi sorority taking second and Sigma Alpha Mu fraternity placing third.

Judges for the event were Reuben Williams, Raphael Weiner, William Koen, and Bill Goldberg. All of the skits were original, and acted in and directed by fraternity members. The awards will be made at the Hillel farewell banquet.

## It's Gardner and Trio Over KNOW Tonight

Frank Gardner and the Co-Ed Trio, composed of Carl Barnes, Jean Granberry, and Louise Self, will sing a number of popular songs at 9:15 Thursday night over the Texas State Network through the facilities of KNOW. Alvin Cowan, director of the program, will do the announcing.

Tuesday night the same group will sing on a program being presented at the Blind Institute by the Men's Glee Club of the University.

## Susan and Spencer



A PAIR OF TRACYS—One of Spencer Tracy's most ardent fans is his daughter, Susan, shown here with her famous father before he sailed recently for a short vacation in Paris and London. Tracy's next picture, in which he co-stars with Hedy Lamarr, is "I Take This Woman."

## This Art Made In Primitive Way

Uniqueness in color blending, design, and intricacy of detail best describes the collection of oriental woodblock prints in the exhibition room of the Austin Public Library, under the sponsorship of the alumna chapter of Alpha Alpha Gamma, honorary architecture fraternity for women.

In making these prints, only the most primitive methods—or, what from our point of view, may seem such—are employed. The most wonderful of the prints is but a "rubbing" or impression, taken by hand from a woodblock. The artist draws the design with the point of a brush in outline upon thin paper, and hands it to the engraver, who begins his part of the work by pasting the design face down upon a flat block of wood, usually cherry, sawed plank-wise as the blocks used by European wood-engravers in the time of Durer.

The paper is then carefully scraped at the back until the design shows through distinctly in every part. Next, the wood is carefully cut away, leaving the lines in relief, care being taken to preserve faithfully every feature of the brush strokes with which the drawing was executed. The printing is done on moist paper with Chinese ink, and color is applied to the blocks with flat brushes.

In printing, a sheet of paper is laid upon the block, and the printer rubs off the impression, using a pad called the barren. This is applied to the back of the paper and is manipulated with a circular movement of the hand.

## Where to Go

PARAMOUNT.—"Let Freedom Ring." With Nelson Eddy, Virginia Bruce, Victor McLaglen, Lionel Barrymore, and Edward Arnold. Feature starts at 11:39, 1:43, 3:47, 5:51, 7:55, and 9:59 o'clock. (Reviewed today.)

STATE.—"The Hound of the Baskervilles." With Basil Rathbone, Richard Greene, and Wendy Barrie. Feature starts at 11, 12:52, 2:44, 4:24, 6:16, 8:06, and 9:52 o'clock. (Last day.)

QUEEN.—"The Saint Strikes Back." With George Sanders and Wendy Barrie. Feature begins at 1:42, 3:20, 4:58, 6:36, 8:14, and 9:52 o'clock. (First day.)

CAPITOL.—"Four Girls in White." With Florence Rice, Alan Marshall, and Kent Taylor.

VARSITY.—"The Arizona Wildcat." With Jane Withers and Leo Carillo.

TEXAS.—"It Happened One Night." With Clark Gable and Claudette Colbert.

By varying the degree of pressure, the color can be forced deep into the paper or left upon the outer fibers only. The skill of the printer is a large factor in producing the best results. Many kinds of paper are used. For the best of the old prints, the paper was thick, spongy in texture, and of an almost ivory tone. The finest specimens are printed under the direct supervision of the artist who designed them.

The display is open daily from 1 o'clock in the afternoon until 9 o'clock at night and will be on exhibit until next Wednesday.

## High Schools Present Plays

League Finalists At Hogg Saturday

Eight one-act plays, winners over a field of 668 productions, will be presented by high schools in Interscholastic League competition at Hogg Memorial Auditorium Saturday.

High schools which will give their plays in the State meet are Albany, Amarillo, Austin, Odessa, Tyler, Stephen F. Austin (Houston), Weslaco, and Wichita Falls. An unusual feature of the tournament this year is the wide distribution of the contestants throughout the state. High schools in the Panhandle, Rio Grande Valley, East and Central Texas are competing.

Six comedies and two fantasies will be presented. Albany High School is entered in the state tournament with an original comedy, written by Robert E. Nail Jr. of Albany. Three high schools, Amarillo, Austin, and Austin, will be returning to the meet for the second consecutive year.

"In think this is due to well-organized dramatic organizations in the schools," F. L. Winship, speech director of the Interscholastic League, said. "The plays this year are, generally speaking, better than those of last year, probably because of a better trained group of directors than ever before."

"It is interesting to note," he continued, "that approximately 60 per cent of the contestants in our State drama tournaments are from small schools." The Austin High School Red Dragon Players have been one of the most consistent dramatic organizations, qualifying for the state meet six times in the last thirteen years.

Dr. E. Turner Stump, well-known authority on dramatic contests and head of the speech department of Kent University, Ohio, will be critic judge of the plays. In the past, he has served as judge in the Ohio and West Virginia State one-act play tournaments. Lecturing has brought him to Texas on three successive occasions. At the end of the tournament, he will confer with the directors of the various groups on problems of production.

Admission for the entire eight plays will be 50 cents.

## MUSIC OF MASTERS

"Music of the Masters" phonograph record concert Thursday afternoon at 4:15 o'clock in Main Building 209 will include Mozart's "Symphony No. 39 in E Flat," Rachmaninoff's "Piano Concerto No. 2 in C Minor," and the Arnold Bax "Mediterranean." The daily programs are open to the public.

## Music Masters at Camp

With the support of the New Braunfels school system and Southwestern University and the co-operation of all Texas music schools, Dr. F. E. Giesecke, president of the board of the Southern Music Camp, hopes that the camp will have a long and successful career.

Credits toward graduation and degrees will be awarded students who satisfactorily complete the prescribed courses. It is a non-profit, cultural project held from June 5 to July 15 at Landa Park in New Braunfels.

Southwestern University will establish an extension center at the camp under supervision of Professor Henry E. Meyer, dean of music, who will also be a member of the teaching staff in piano and organ. Mme. Margarita Agreva-Slaviansky may instruct in voice and choral work.

## N.U.T.T. LUNCH

Nu Upsilon Tau Tau had luncheon Wednesday in the Home Economics Tea Room. The usual program of fun and no business prevailed.



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**COOL, COOL STETSON**

Gentlemen, there's no reason to let the heat worry your head... just put on a breeze-inviting Stetson with its thousands of tiny air-vents bathing your brow with every zephyr. And the new Stetsons are so light in weight that you hardly know you have one on. In a wide range of styles.

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RENT July, August: Cottage, Lake Summit, North Carolina mountains. \$25 weekly. Phone Mary Hart Law, 2-8656.

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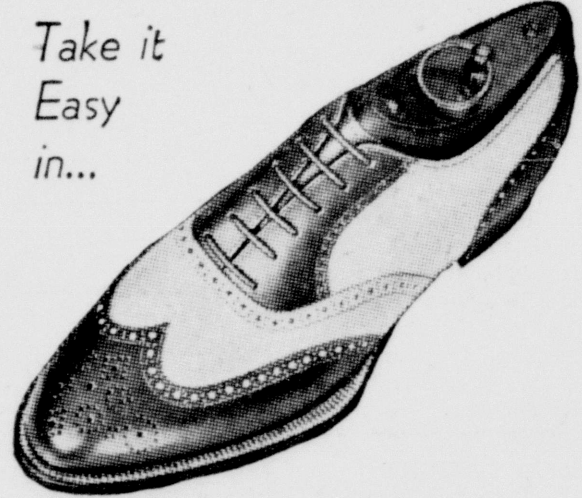
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