

Extensive Investigations Fail To Find Missing Girl



ANITA JOYCE CANTRELL

... disappeared on her way to register Wednesday

Anita Joyce Cantrell, carrying only a bulletin from the School of Business Administration, walked out of Doak Hall Wednesday at 1 p.m. and headed for the administration building to register. She has not been seen since.

Profs Cite Lost Coed As 'Quiet'

by TOM SCHMIDT
Toreador Editor

Anita Cantrell, the Texas Tech coed who has been missing since Wednesday afternoon, was not too successful in her academic work since entering college.

The junior accounting major from Grand Prairie failed to make any grade points last semester. Most of her teachers indicated that she had a rather passive attitude in her classwork.

RETTA DAVIS, Anita's swimming instructor, said she could not remember her missing a class. "She seemed very conscientious to me," Miss Davis said.

But her other teachers told a different story. Dr. Howard Golden, associate professor in marketing, said that Anita did all right in her work when she attended class but that she would attend once and then miss twice.

"ABOUT THE LAST half of the semester," Golden said, "she didn't attend class consistently."

Charles Dale, assistant professor in finance, said, "Anita didn't miss too many classes of business law but she was very quiet and never took part. She sat in a chair in the back of the room all by herself, something very unusual for a girl."

DALE SAID she never volunteered to give a case in class and that he never had a conversation with her.

Anita was described as "very quiet" by Dr. Fred Norwood, professor of accounting. "She didn't take the final or attend class for about the last two weeks of the semester. She didn't talk too much and I couldn't get to know her."

NORWOOD SAID that Anita sat in the back corner of the classroom while the rest of about six girls in the class sat near the front.

John Crews, accounting teacher, said Anita missed class frequently during the first part of the semester and then did not attend at all after mid-semester.

"She didn't show up for the final," Crews said.

Worried and puzzled school officials and classmates were trying to piece together vague facts Friday in an effort to find the missing 22-year-old junior from Grand Prairie. She had not been found by late Friday night.

Bill Daniels, Texas Tech chief security officer, said Friday, "Everything in her room was in order. None of her clothes were missing, except the ones she was wearing when last seen."

When Anita left Doak she was wearing a blue dress, white socks, black loafers and a red car coat and black scarf.

Anita's picture, along with her description when last seen, was given to Lubbock Police and a missing person broadcast has been sent over the state with her mother's permission.

ANITA'S ACTIONS prior to her departure from Doak Hall sheds little light on what may have happened to her between Doak Hall and the Administration Building. She never reached the Ad Building.

Miss Joan Gallagher, Ropesville senior and the missing girl's roommate, said Friday that Anita, in a cheerful mood, ate lunch in the dorm Wednesday, then went to her room. As Miss Gallagher left for her one o'clock class, she told Anita that she would see her at three o'clock when her (Miss Gallagher's) class would be over. Anita answered simply, "OK," as she had done many times before.

APPREHENSIVE, Miss Gallagher did not become worried until the missing girl did not return for supper. Thinking that perhaps Anita had mistaken Wednesday for the semester "penny-a-minute-night," Miss Gallagher and other close friends finally called Anita's mother at 11 p.m.

As Mrs. Cantrell knew nothing, the girls informed dormitory officials who in turn contacted the local police.

Both Florence Phillips, dean of women, and Caroline Bosworth, Doak Hall counselor, stated that Anita had never been in trouble before. Mrs. Bosworth described Anita as "a friendly, pleasant girl who was well-liked by her own group."

MRS. BOSWORTH added that Anita arrived back at Tech Sunday night by bus from Grand Prairie, seemingly very happy to be back at school.

Anita arrived at school late be-



JOAN GALLAGHER
... last to talk to Anita

cause her father had suffered a heart attack between semesters. But, her father's condition was better and Anita seemed happy.

TWO POINTS show that she never registered:

1. She never picked up her registration packet, nor turned in her housing card; the housing card was in her room, blank.

2. She had not, by Wednesday afternoon, paid her room and board fee for February.

Anita had no "steady" boyfriend, having had only two dates this year, both early last semester. She did not take a suitcase nor any other clothes besides those she was wearing when she left her room. She did have \$300 which her mother gave her when Anita left Grand Prairie Sunday.

SHE KNEW FEW people in Lubbock and, in her three years here after transferring from Arlington State, had never checked out to spend the night in town.

A mystery name entered the case Friday. Miss Gallagher said that a girl named "Judy, from California," had several times mentioned what an awful place Texas was and how grand California is. (The girl is believed to be Judy Zane from San Pedro, Calif., now working in San Pedro, who attended Tech last semester and lived in Doak.)

DEAN PHILLIPS contacted Miss Zane by phone Friday night, but Miss Zane said she barely knew Anita. The two were in a swimming class together last fall.

Anita had fainted last semester during finals, and it is a theory that perhaps she fainted again and, in falling, might have hit her head and gotten amnesia.

OR, PERHAPS, with \$300 in travelers' cheques, Anita might have wanted to see California. These are the hopeful theories; no one wants to think otherwise.

Perhaps Mrs. Bosworth put it best: "We love Anita—and we want her back."

Spring's Enrollment Sets New Record

More than 8,000 students have struggled through the spring registration lines to set a new enrollment record for Tech.

According to Dr. F. D. Boze, registrar, 5718 men and 2339 women are enrolled this semester. A steady, favorable growth has taken place for the past two semesters, he said.

Departmental enrollments have changed since last semester. Last

fall 710 were enrolled in the School of Agriculture. This semester only 664 are in that department.

The School of Business Administration now has 1663 compared to last semester's enrollment of 1509. Home Economics has jumped from 383 to 437.

The biggest increase has been in arts and sciences with 2745 now enrolled compared with the 2585 of last semester.

Union Board Ok's Elgart

Les Elgart and his band were accepted Friday by Texas Tech's Union Board as the featured band for next fall's Homecoming Dance, while the Board postponed action on a proposal to book Jose Greco and his Spanish dancers for this spring.

The decision to postpone okaying a contract with the Greco

group came after lengthy discussion of whether to do so without moving too far toward "cultural" events, as opposed to "popular" ones.

THE BOARD agreed with a suggestion by James G. Allen, dean of student life, that Mrs. Patterson, program director of the Union, be instructed to make every effort

to investigate other possible bookings for this spring, within the next 10-14 days.

According to Mrs. Patterson, the Greco group can be obtained on March 6 for about \$1000 less than their usual price of \$3,000. She termed Greco a "top cultural drawing card" and "top collegiate entertainment."

DISCUSSION also centered on possibility of obtaining the Four Freshmen or the Kingston Trio. Mrs. Patterson said the Freshmen would cost about \$2,200 and the Kingston Trio about \$3,000-3,500, with little possibility of booking the Four Freshmen.

'Old Barn' Serves Tech 34 Years

Campus Warehouse Becomes Tech Gym

by CAROLYN JENKINS
Toreador Campus Editor

Texas Tech will have to exist for many decades to again see the day it will get as much for its money as it has out of the "Old Barn."

The 34-year-old wooden and stucco gymnasium located on the northern end of the campus nicknamed the "Barn" in its early days, has served almost every purpose except that of a cowshed.

Once called the most modern gym in this part of the country for its large floor and large seating capacity, the structure has housed in the past convocations, commencements, registrations, all-college dances, barbeques, artists' courses and athletic contests.

Through its doors have passed great artists, entertainers and athletes.

Some of the "greats" viewed by Tech students on the old gym's floor were John Philip Sousa and his band, Josef Heifetz playing the violin, Will Rogers in an all-college address and Polk Robison on the basketball court.

It has been known as the triple threat of the campus, provided as a social, cultural and sports center of the Southwest.

Next year, the "Barn" will move into a new realm. For years now it has not been able to accommodate the growing student body of Texas Tech. It no longer has adequate facilities for the women's physical education department.

Beginning in September, the old gym will have another function to add to its already staggering long line of services.

According to Edsel Buchanan, men's intramural director, the "Barn" will be turned into in-

tramural headquarters, with the women's physical education department moving into a modern women's gymnasium being built southwest of Knapp Hall.

Looking back, Tech students and Lubbock citizens wonder how they could have gotten along without the all-purpose building. But in 1926 the Texas Legislature insisted that there was no need for a gym at Tech.

At that time basketball games were being played in the Aggie Pavilion and women students were folk dancing and exercising in an open space on the third floor of the Ad Bldg.

The solons did appropriate, however, funds for a warehouse in that same year, not knowing the "warehouse," would, among other things, serve as an all-college gymnasium for 29 years.

Though useful, the gym was not known as the most beautiful opera house, nor as the safest convention hall. In fact, it was often regarded as a fire hazard.

Tales are that faculty members used to arrive at all-college dances every Saturday night with buckets of water. This was part of the chaperone's job, to watch for flames resulting from cigarette ashes dropped on crepe paper decorations.

In the old days, some of the football players lived in a room at the back of the gym as caretakers.

Two of the players, Joe Albright and Jack Shanks, were awakened one night by smoke from ashes dropped from the bleachers, got up and put the fire out. But as the years passed and the "Old Barn" still stood, the two remarked that they wondered why they didn't let "the old thing burn to the ground."

Before each graduation exercise in the gym, maintenance men used to man BB guns in an attempt to get rid of birds nested in the windows, so that commencement spectators would not be interrupted by "foreign matter" falling through the air.

During football season, the south wall of the gym often resembled a billboard, as members of opposing teams would arrive early and leave their mark on the "Barn" with a splash of paint. A Texas A&M souvenir still remains.

In the 40's and 50's the gym became so popular for campus activities that a special committee was set up "to correlate the use of the gym for the many different functions" which had to be held there, such as Wilson Lectures, election rallies, symphonies, luncheons, square dancing and intramurals.

The old "Barn" has the distinction of housing the first two full length speech department plays, produced in 1928 and 1930 by Annah Jo Pendleton.

Another first in the antiquated BARN, Page 8 . . .



THREE PRETTY TECHSANS TAKE A HAND AT WORK ON NEW WOMEN'S GYM . . . contractors look on in anguish as girls decide to hurry construction

Television Classrooms Open For Engineers Next Week

by JIM WALSH
Toreador Staff Writer

Keeping abreast of the growing use of television in American education, Texas Tech will open its first television classrooms next week in the Textile Engineering Bldg.

The student will enter the classroom and take his seat just as in any other class. Only this time he will be greeted by an electronic picture rather than a live instructor.

NOTES WILL be taken as the student hears the sound of the teacher's voice coming from the ceiling and watches his movements on a glass rectangle approximately 12-inches by 16-inches. Interspersed will be rest periods where the instructor will answer questions asked him by telephone.

Approximately 200 engineering drawing students in the industrial engineering department will be initiated into this most modern, but still unproved, method of teaching. The idea follows along the success of the nation-wide morning show, "Continental Classroom."

TWO ROOMS, each with four 21 in. video receivers, mounted horizontally along a wall, will be seated with students following a lecture given in a room 20 ft. away.

Graduate instructors will be available in the room to answer questions and take roll. Questions aimed at the teacher will be relayed by telephone from the classroom to the camera studio where monitoring speakers will broadcast the questions to the rooms as well as the teacher's answer.

EACH ROOM has individual speakers mounted in the ceilings from which the students can hear the audio portion of the lecture. The video portion to the eight receivers is relayed directly by cable; no outside broadcasting will result. Future broadcasting by air waves may be made by the installation of a transmitter.

TWO CAMERAS in a 12 ft. by 12 ft. room will be handled by instructors or students. One camera is permanently mounted on a wall and maneuvered and focused at a control panel outside the studio.

The control panel will carry pictures from both cameras. A television technician will change pictures at the will of the instructor, letting the student see a diagram one minute, then letting him follow the teacher as he explains the diagram.

APPROXIMATELY four air hours a day will be broadcast. Teaching the first classes will be L. C. Lindanmeier, C. C. Perry-

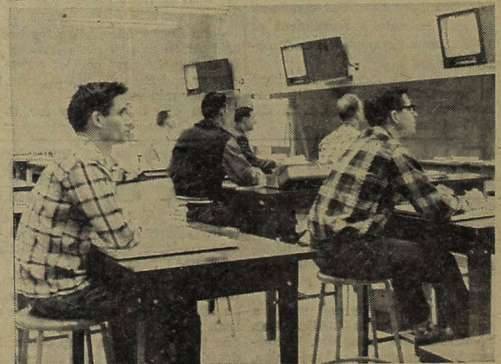
man, Bill Power and Robert Reeves.

These instructors and other department instructors have worked over a year and a half preparing visual-aid equipment for the shows.

"THESE AIDS will improve the students' perception in seeing what the instructor is trying to put over," said Dr. Richard Dudek, head of the industrial engineering department. "This will be far better than a chalk blackboard."

"Good engineering drawing teachers are hard to obtain because they can make so much more in industry and because they must have special talents," he said. "TV allows the talents of a good instructor to reach more students at a time," he pointed out.

Asked if he thought some instructors would turn into 'hams' before the cameras, Dr. Dudek smiled, "We're all hams, aren't we?"



ENGINEERING DRAWING STUDENTS WATCH LECTURE VIA TV . . . new closed circuit system enables more efficient instruction

The Midnight Miss

c. j.

All kinds of amusing things happen when pictures are being made of campus celebrities.

Take for instance Wednesday, when Toreador personnel arranged a photo in connection with Penny-a-Minute night of a freshman girl and Student Body President Bill Pfluger.

On hearing that her picture was to be made with a certain Bill Pfluger, the freshman turned to friend reporter asking "Who's he."

Evidently the girl was pondering over whether to permit her picture to appear in the Toreador with a strange boy, so the friend reassured her with "He's okay."

'Tis better to be known by good qualities than fame any day we always say.

★ ★ ★

Quoting Goethe, "Fame is no sure test of measure, but only a probability of such."

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A similar incident happened not long ago involving another campus "light," Tom Schmidt.

A Toreador reporter tapping out a story was told to put it on Schmidt's desk when she finished. You guessed it — "Who's Schmidt?"

In case you're not a regular follower of this sheet, Schmidt is editor of the Toreador.

Seems as if one's subordinates would know who's boss. But then there is a general lack of interest in who bosses whom around this campus. (Starting early on the old "Know your Candidate" and "Get Out and Vote" routine.)

★ ★ ★

Getting wind of social functions for the weekend has been like trying to outguess the Government 233 final. However, we have come up with a few.

Gamma Phi Beta pledges will be presented at a presentation dance from 8:30 p.m. to midnight in the Caprock Hotel tonight. Master of ceremonies for the Valentine affair will be Troy Fields of KDUB.

SAE's are having a juke box dance at their lodge tonight for members, pledges, guests and

dates. Phi Delt's are getting away from it all with a retreat to Tullia.

Dr. Earl Camp, biology department head, spoke to members of Sigma Chi at a luncheon Friday in the Ballroom.

Delta Tau Delta's and their dates danced to the music of Sam Baker's orchestra at last night's Sweetheart Dance in the Lubbock Hotel.

And in case you can't find anything to do tonight, the Lubbock Little Theater is presenting "Visit to a Small Planet," a Gore Vidal comedy. Showtime is 8:15 p.m. All seats are reserved and student tickets are \$1.15.

Saddle Tramps Name Pledges

Bud Henderson, Saddle Tramps pledge trainer, announced 20 new spring semester pledges, Monday night.

Activities of the Saddle Tramp pledges include; helping with the up-coming bicycle race, ushering at basketball games, cleaning of bell tower and Saddle Tramps Circle, and the ringing of the victory bells.

New pledges are: Brett Bayne, Floyd Bradley, W. R. Collier, David Daniel, Gary Grimes, Carl (Satch) Hyde, Wayne Isom, Tom Link, Bob McGough, Pat O'Quinn.

Alan Peppard, Dallas Powell, Richard Rees, Jerry Rogers, Carlyle Smith, Bill Smyrl, James Tom, Johnny Webb, Dan Webster, and Woodie Wood.

I.D.'s Not Ready

Identification cards will not be available this morning as had been previously announced by I.D. photographer Rollin Herald of Herald Photo.

They may be picked up Monday or Tuesday at Window One or Two in the auditor's office in the Administration Bldg.

Union Presents Free Movies

"Eddie Duchin Story" starring Tyrone Power and Kim Novak will be shown at 2:30 Sunday in the Tech Union. Next showings will be at 4 p.m. and 7 p.m. Monday.

"Compulsion" will be shown Feb. 14 at 2:30 p.m. and Feb. 15 at 4 p.m. and 7 p.m. Starring in "Compulsion" will be Orson Wells, Diane Varsi and Dean Stockwell.

It was also announced that the Union sponsored World Travelers Lecture, "Arab World and Communism, originally scheduled next Tuesday, has been postponed.

Scholarships Are Offered In 'Silver Competition'

During February and March, Reed & Barton, America's oldest major silversmiths, are conducting a "Silver Opinion Competition" offering scholarship awards totaling \$2050 to women students at Texas Tech.

The First Grand Award is a \$500 cash scholarship; Second Grand Award is a \$300 scholarship; Third Grand Award is a \$250 scholarship; Fourth, Fifth and Sixth Awards are \$200 scholarships; and Seventh, Eighth, Ninth and Tenth are \$100 scholarships.

In addition, there will be 100

other awards consisting of sterling silver, fine china and crystal with a retail value of approximately \$50.

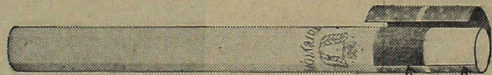
In the "Silver Competition," the entry form illustrates twelve designs of sterling with nine designs of both china and crystal. Entrant simply lists what she considers the six best combinations of these.

Carolyn Meck is the student representative. Those interested in entering the contest should contact Miss Meck at Doak Hall, 359B, for entry blanks and complete details concerning rules.

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Sunday Feb. 14th

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JUST SOME GAB

Knowledge Is Vital Issue

In a previous column written for this space, (Jan. 9th) I tried to deal with a problem I thought to be vital to all who are engrossed in the processes of gaining knowledge in these hallowed halls. It was a problem of equal importance to those who maybe aren't so engrossed, but should be. The point was: "Where are you going? Why are you going to college? What are your goals?" It still is, but with a different tack.

A member of my government class pointed out that I hadn't mentioned the folks who were kidding themselves into thinking they were learning something . . . or possibly the ones who were trying to kid everyone else on that point. It is a valid question and one that possibly many of us tend to rationalize in our favor. There are too many who follow this fallacy of "knowledge"; expecting something for nothing; knowing long enough to pass a quiz or an exam, and then forgetting; or memorizing for the sake of expounding at a choice moment, to impress the group.

There is no short cut to knowledge. That word — knowledge — implies more than just being filled with facts. Facts must have meaning and must be used — they must be applied to a given problem, or else they rust and are forgotten. Knowledge may be power, but power denotes action, use, work; hence, if the former is not used; if it does not work; if it is not active — the power is left wanting.

Now, before someone else says it, allow me to question: "But today, how are you going to KNOW anything? Whom can one believe?"

It's a tough decision, I daresay. On the one side we hear the one thing from what we believe to be an authoritative source. From another side, the opposite view is just as authoritatively claimed. So, it seems to me it boils down to the person. As Archibald MacLeish expresses it in his new play "The Se-

cret of Freedom" it's "You. Every you there is — and that includes every me there is." You have to place your faith in the truth of what's said in someone — in something. You have to think, and that is getting to be a dangerous task for folks these days. If the one side says "yes!" and the other says "no!", the only alternative is to find out for yourself. Somebody's kiddin' you, — or worse!

Don't be duped — no matter what it's about! Be inquisitive! Listen! Digest everything! Think! Weigh both sides! KNOW! then use it wisely. And if some sharpie tries to sell you a bill of phony goods, you'll be able to gather your facts, and ask, "Buddy! Who're you trying to kid?"

Groups Elect Officers

Three campus organizations have elected officers for the spring semester.

DELTA TAU DELTA

Morris Scales was elected president and Bobby Switzer, vice president of Delta Tau Delta. Scottie Morris is corresponding secretary; Denton DeWitt, recording secretary; John Stokes, sergeant-at-arms and Greg Wileman, pledge trainer.

SIGMA NU

Sigma Nu's elected Tommy Wil-

son commander; Tommy Atkins, treasurer; Frank Richey, recorder; Steve Homer, reporter; Melvin Kohler, chaplain; Ray Perry, sentinel; Lowell Whitlock, marshal; Don Wilson, lodge manager; Allen Nichols, historian; and Bill Spears, alumni contact.

TECH ACCOUNTING SOCIETY

Officers of the Tech Accounting Society are Bobby Scott, president; Jack Coffman, vice president; Kenneth Franks, secretary-treasurer; Don McEntire, reporter; and Jerry Dunn, social chairman.

★ PERSONAL

Will the person who picked up a blue leather jacket in Broadway Drug please contact Jimmy Collins, 2407 10th, Phone PO 2-2594.

★ FOR SALE

86 Austin A 35 \$850.00. Will make a good school or work car — excellent condition. PO 2-3754.

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Thousandfold bargain! Tech-Ads, the Toreador's answer to everything you need to sell, rent or give away. Call today. — PO 5-8541, Ext. 423.

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Nice Apartment for 1 or 2 persons. Bills Paid. 3214 25th. Phone SW 5-3209. \$60.00.

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★ POSITIONS

MANAGEMENT ANALYST, degree in Industrial management, plus one year of related experience. With Dallas Air Procurement District, salary, \$9,085 per annum. Contact Tech Placement Office.

SALES positions open with Police Wholesale Mercantile Company, Amarillo, customers in four states. Contact Tech Placement Office.

SALES positions open with Armstrong Cork Company of Lancaster, Pennsylvania. Must have a desire to enter the field of sales and marketing on a long-range basis. Training period, either single or married men. Contact Tech Placement Office.

Consumer Products Salesman needed, may be married or single, should not be subject to military service, given specific training by senior salesman or a supervisor. Kimberly-Clark Corporation of Kenah, Wisconsin. Contact Tech Placement Office.

Management Intern Program with United States Atomic Energy Commission, Washington, D.C.; need Master's degree in B.A. Program provides one year of training in AEO Headquarters and in field operations offices. Must be American citizen. Must be given an FBI security investigation. Contact Tech Placement Office in East Engineering Building for particulars.

JOB ANALYST in Personnel Department with Texas Employers Insurance Association, Dallas Texas. Age 23 to 27 years of age. Salary \$390 to \$508 per month. Contact Tech Placement Office.

FIELD REPRESENTATIVE with General Motors Acceptance Corporation, Lubbock, Texas, degree in B.A., salary based on qualifications, car and expenses provided. Would consider an alumnus or January graduate. Contact Tech Placement Office for particulars.

★ Part-Time Jobs

GIRL — Shorthand, Typist — Afternoons and Saturday. \$100-\$125 per month. See Tech Placement Office.

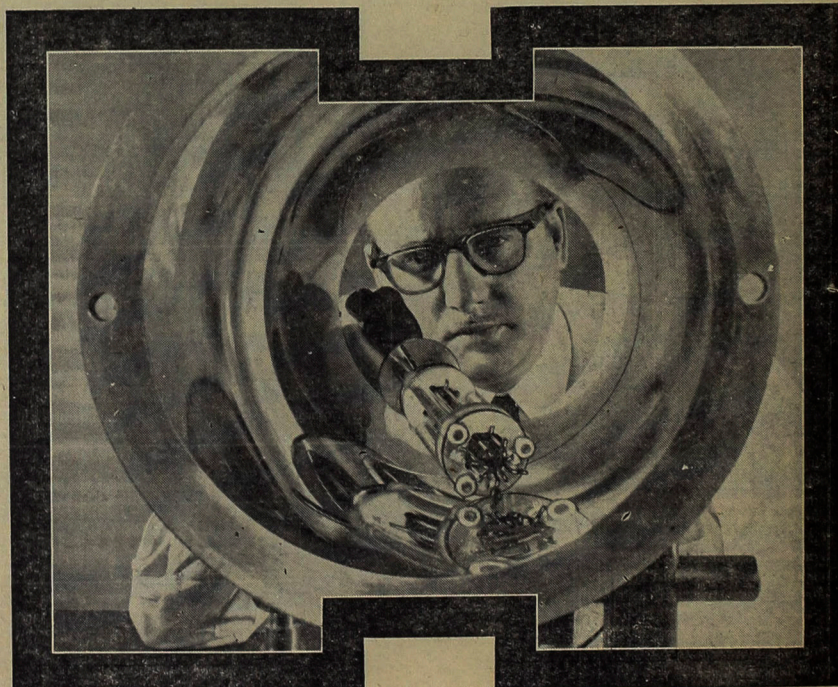
Male Shoe Salesman. Must have experience. 2 hours Saturday. Commission. See Tech Placement Office.

Boy or Girl — Type from Dictaphone, Good in Grammar and Spelling. Afternoon, Monday-Friday. \$1.00 per hour, see Tech Placement Office.

TV-Radio Repair, some experience needed. \$1.50 hour exp., \$1.00 no exp. Tech Placement Office.

Asst. in Drug Room with Methodist Hospital, prefer pre-med sophomore, 20-25 hrs. a week. \$1.00 hour. See Tech Placement Office for particulars.

Checking Einstein with a



Old Press Found At Painter House

by JOLENE DIXON
Prof. W. E. Garets, head of the Tech journalism department, was recently given an antiquated printing press by T. J. Davis.

DAVIS FOUND the printing press while he and his crew were tearing down the Painter Home, one of the oldest houses in Lubbock. The press was sealed in a partition of the basement wall.

ALD Initiates New Members

Installed this week into Alpha Lambda Delta, freshmen women's honorary, were Mrs. Laura Bal-
lew, Mrs. Jan Langley, Miriam Parkinson and Charmayne Wilson.

All ALD members must pay spring semester dues at the dean of women's office.

Any freshman woman who received at least a 2.5 grade point average last semester and who has not received an invitation to join ALD should contact the dean of women's office.

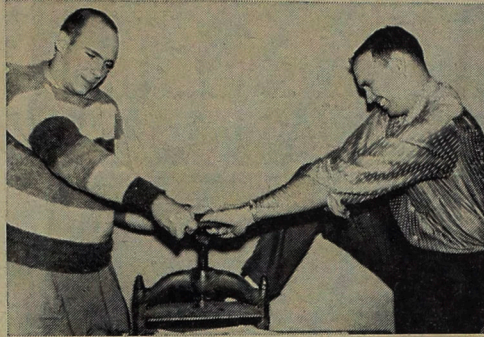
Although the origin of the press is unknown, it is believed that the press was left by a resident at the Painter Home during its boarding house years. The present members of the Painter family have no records or recollection of this press and its existence was unknown to them until its recent discovery.

THE PRESS, estimated to be at least one hundred years old, has no serial number or identifying marks. There is indication, however, that it was at one time bolted to a stand, which might have contained the missing serial number.

Without this identification, it is impossible to determine whether the origin is American or foreign, or the exact date the press was used.

EFFORTS ARE being made by Garets to trace the origin and determine the age of the press. The Goss Printing Company has been consulted in this matter.

Garets plans to display the press in the Journalism Building after the building has been remodeled.



EDITORS TRY RUSTY, ANTIQUE HAND PRESS FOR TOREADOR
... Tom Schmidt and Ron Calhoun play with old Painter House Press

Mansell Fund Is Established

The first scholarship fund to aid pre-medical students at Texas Tech has been established in memory of Dr. C.C. Mansell, long-time Lubbock physician who died last Saturday.

Dr. O. W. English, chairman of a committee organized to encourage contributions to the fund, said that the committee felt aid to pre-med students at Tech was an appropriate use for the fund, since it represents a special interest of Dr. Mansell.

A number of gifts to the Chris Mansell Memorial Fund have been received by the Texas Tech Foundation according to William H. Butterfield, vice-president in charge of development.

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announces

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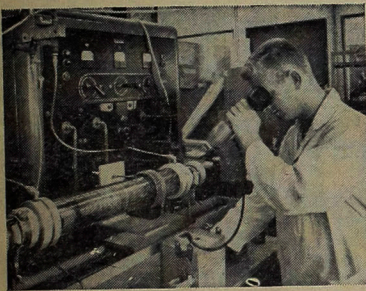
ADULTS AND COLLEGE STUDENTS

Tuesday Evenings — 2½ hours

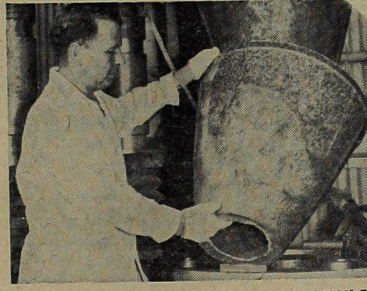
Beginning Feb. 16th

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Porter 2-8769



Purity Plus—Hughes Products Division engineer checks semiconductor materials to insure purity.



Exit cones capable of withstanding temperatures of 6000° F. represent one example of advanced engineering being performed by the Hughes Plastics Laboratory.

than atomic clock in orbit

To test Einstein's general theory of relativity, scientists at the Hughes research laboratories are developing a thirty pound atomic maser clock (see photo at left) under contract to the National Aeronautics and Space Administration. Orbiting in a satellite, a maser clock would be compared with another on the ground to check Einstein's proposition that time flows faster as gravitational pull decreases.

Working from the new research center in Malibu, California, Hughes engineers will develop a MASER (Microwave Amplification through Stimulated Emission of Radiation) clock so accurate that it will neither gain nor lose a single second in 1000 years. This clock, one of three types contracted for by NASA, will measure time directly from the vibrations of the atoms in ammonia molecules.

Before launching, an atomic clock will be synchronized with another on the ground. Each clock would generate a highly stable current with a frequency of billions of cycles per second. Electronic circuitry would reduce the rapid oscillations to a slower rate in order to make precise laboratory measurements. The time "ticks" from the orbiting clock would then be transmitted by radio to compare with the time of the clock on earth. By measuring the difference, scientists will be able to check Einstein's theories.

In other engineering activities at Hughes, research and development work is being performed on such

projects as advanced airborne systems, advanced data handling and display systems, global and spatial communications systems, nuclear electronics, advanced radar systems, infrared devices, ballistic missile systems...just to name a few.

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March 4

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WEAVER ANNOUNCES

27 Lettermen Chosen

Coach DeWitt Weaver has announced that twenty-seven Texas Tech Red Raiders earned varsity letters for the past season. Twenty-one of the twenty-seven men who were awarded letters will report for spring practice Thursday. Graduation will claim five of the six lettermen and guard Blake (Scotty) Adams, a starting sophomore last season, will not return due to scholastic ineligibility.

Seniors, awarded letters include Ken Talkington of Tyler, end-and-tackle Jerry Seltridge of Borger, Co-captains; center Bill Turnbow of Burk Burnett, and halfbacks Mickie Barron of Childress and Ronnie Rice of Lefors.

Quarterback Glen Amerson of Munday, end Jim Brook of Fort Worth, tackle Bobby Cline of Belton, split back Dan Gurley of Fort Worth, center E. J. Holub of Lubbock, guard Robert Meyer of San Antonio, guard Jere Don Mohon of Panhandle, guard Dale Robinson of Stamford, end Mike Seay of Andrews, fullback Dick Stafford of Temple, end Ed Strickland of Pampa, end Don Waygood of Sundown, guard Fred Weaver of Lubbock Cooper

(High), and center Jackie Wiles of Levelland were the fourteen juniors named.

Among the eight sophomores are guard Blake (Scotty) Adams, fullback George Fraser of Llano, fullback Carl Gatlin of Waco, tackle Larry Mullins of Snyder, end Tom Pace of Amarillo, halfback Dickie Polson of Amarillo, split back Bake Turner of Alpine, and tackle Pat Holmes of Del Rio.

Manager awards were given to Billy Sisk of Lewisville end Bobby Wilson of Ballinger.

Numerals were granted to forty-eight freshman by Coach Tom Hamm.

Freshmen capturing numerals include: Backs Richard Mahan of Snyder, John Lovelace of Farwell, Tommy Johnson of Lefors, Allen Shuler of San Antonio, Billy Jeter of Houston, Billy Thetford of Witharral, Larry Tipton of Levelland, C. W. Williams of McKinney, Jay Dean Byrum of Ysleta, George Berger of Weimar, Ronnie Short of Lovington, N.M., Charles McEntire of McKinney, Ken Holder of Artesia, N.M., Roger Gill of San Antonio, Richard Willis of Fort Sumner, N.M., Joe

Ed Pesch of Breckenridge, Charles Harrison of Abilene, Coolidge Hunt of Lubbock, and Ed Boydston of Canyon.

Ends Ross Grief of Stephenville, Walter Rankin of Midland, Larry Jones of Lubbock, Dennis Grimes of Seagraves, Jerry Garrison of Levelland, Tommy Hayes of Electric, Byron Lewis of Tulia, Wayne Garner of Ralls, and Douglas Goen of Anton.

Tackle Harley Hannsz of Houston, Charles Huddleston of Breckenridge, Alfred Peterson of Gaineville, Lanny Priddy of Fort Worth, Winfrey Shipp of Hale Center, Keith White of Tulia, Nathan Armstrong of Sweetwater, and Jerry Lindsey of Texarkana.

Guards Jim Lowe of Childress, David Quisenberry of Phillips, Roy Blair of Midland, Jackie Nichols of Lubbock, Phillip Pearce of Monahans, Charles Edgemon of Wichita Falls, Jimmy Little of Rankin and John Ochsner of Syracuse, N.Y.

Centers Larry Kimberlin of Breckenridge, Carl McCormick of San Angelo, Wallace Sternberg of San Juan, and James Narrell of Hamilton.

Stands Slide Back For Sixth Time

If the weather bird doesn't change his mind, a sixth section of Texas Tech's east stands will be moved Tuesday or Wednesday.

When the section, Q, is stabilized 226 feet east of its former position, only one section of the seven—R, in the southeast corner—will remain. Despite rain earlier in the week, LaPlant-Adair workers had most of the track laid in readiness Friday.

Although shifting positions of a stadium is considered precedent-breaking, the actual movement has gone in "routine fashion," according to the movers. The project—involving some 10 million pounds of concrete and steel—is viewed as simply one of shifting seven buildings.

Excavation of 335,000 cubic yards of dirt from between the west and east stands was continuing Friday after a delay of two days occasioned by rain. After a new playing surface has been formed 30 feet below regular ground level, 33 rows of stands will be built on the ensuing slopes so that Texas Tech will have 41,500 seats for its 1960 season.

A lighting system, including 576

fifteen hundred watt bulbs, will be installed before the new season. The new pressbox, with elevator, was in use during the 1959 season. Although the new athletic office-dressing room building behind the south end zone is already in use, finishing touches are being placed on it.

Splashers Set For Tilt Today

Swimming weather is here again!

The Red Raider swimming teams take to the water today in a meet with the University of New Mexico and the New Mexico Military Institute. The freshmen take on NMMI at 2:00 and the varsity tackles UMN at 4:00.

The varsity, which has been working out under coach James McNally since the start of school, has six returning lettermen to help them out this season. This is their second season in the Southwest Conference.

Swimmers who are counted upon to play a big part in today's meet are: Jim Tom Davis, a sprinter who was undefeated until the conference meet last year; John Stokes, backstroke specialist; and Ken Hall, one of the outstanding divers in the conference.

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 <p>Nuclear power at the Atomics International Division (Canoga Park, California)</p>	<p>Atomics International, located in the San Fernando Valley of Southern California, is a leader in the development and manufacture of nuclear reactors for power, research, and mobile systems. Two proven AI power reactor concepts are now under construction. Atomics International is building a Sodium</p>	<p>Graphite Reactor for the Consumers Public Power District of Nebraska and an Organic Power Reactor at Piqua, Ohio. AI also is engaged in extensive research activities to develop improved materials for fuel elements and reactor components.</p>
 <p>Electronics & electro-mechanics at the Autonetics Division (Downey, California)</p>	<p>Autonetics, a leader in the field of electronics, is engaged in research, development, and manufacture of Computers, Inertial Guidance Systems, Autonetics designed and built the inertial navigation system for the USS Nautilus and Skate; the first, completely auto-</p>	<p>matic landing system for supersonic missiles and aircraft; the first, general purpose, all-transistor, digital computer. It is now at work on the inertial navigation system for the first nuclear-powered Polaris-carrying submarines and the guidance and control systems for the Minuteman and GAM-77 missiles.</p>
 <p>Naval aircraft & missiles at the Columbus Division (Columbus, Ohio)</p>	<p>The Columbus Division, designed and built the Navy's T2J Buckeye, America's most versatile jet trainer which will train today's jet cadets to command tomorrow's manned weapons systems, and the Navy's supersonic, all-weather A3J Vigilante, today's most versatile manned weapons system. Advanced</p>	<p>design studies now underway at the Columbus Division include undersea, land, and air weapons systems for all Military Services. Current studies include ASW, missiles, ECM, intercept aircraft, electronics systems, VTOL-STOL, ground support equipment, and other still confidential programs.</p>
 <p>Design & development of manned weapon systems at the Los Angeles Division (Los Angeles, California)</p>	<p>The Los Angeles Division is the home of the next-generation manned weapon system—the Mach 3 B-70 Valkyrie multi-purpose bomber—and America's first manned space vehicle, the X-15. Engineers in this division are engaged in research, development, and</p>	<p>production of complete manned weapon systems. Work encompasses the fields of Electronics, Metallurgy, Structures, Aerodynamics, Thermodynamics, Dynamics, Mathematics, Physics, Human Factors and Industrial Engineering.</p>
 <p>Missile weapon system management & space research at the Missile Division (Downey, California)</p>	<p>The Missile Division is the home of the GAM-77 "Hound Dog," an air-to-surface missile for the Air Force's B-52 bomber. The Missile Division has within its ranks some of the nation's most experienced engineers and scientists in the fields of missiles and weapon systems. They are performing research on</p>	<p>missiles and space exploration vehicles of a wide variety of range, speed and propulsion methods. Scientists at the Aero-Space Laboratories, an organization within the Missile Division, are conducting creative research well in advance of existing technology in the space sciences.</p>
 <p>Propulsion systems and concepts at the Rocketdyne Division (Canoga Park, California) (McGregor, Texas)</p>	<p>Rocketdyne is engaged in ideas-to-hardware development of propulsion systems. Hi-thrust liquid propellant engines, built by Rocketdyne, have powered most of the missiles used for military and civilian space projects including Atlas, Jupiter, Thor, Redstone, Explorer, Discoverer, Pioneer, Juno, and others. Under development at present are two super performance liquid systems. While leading the nation in liquid propellant</p>	<p>systems, the division is under contract for high energy solid propellant motors and unique accessory equipment. Solid propellant operations are located at McGregor, Texas. Other propulsion system concepts are actively under development employing the principles of ion energy, nuclear energy, plasma jets, arc-thermodynamic and magnetohydrodynamic systems.</p>

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Raiders Play Farmers Tonight In Aggieland

by JOHN PETTY
Associate Sports Editor

A handful of Davids left Lubbock this morning heading for the land of Goliath with a single purpose in mind—giant killing.

TEXAS TECH—David—will attempt to cut down Texas A&M—the Goliath of the Southwest Conference—in a conference headliner tonight at College Station.

The Red Raiders, fresh from two straight come-from-behind victories over Texas Christian and Arkansas, will go into the game as decisive underdogs. They have managed a 6-9 record over the season while the Aggies were piling up an impressive 13-2 mark.

AFTER WINNING the pre-season tournament at Houston in December, the Aggies grabbed the top rung on the loop ladder and have hung on to it thus far in the race. They have won four league games and lost a single tilt to Southern Methodist 66-64.

The Raiders have fared somewhat better in conference play than the experts predicted. They have won three games while dropping two, good enough for a third place tie with Arkansas and Texas.

LEADING THE upset-minded Raiders against the Farmers will be sophomore sensation Del Ray Mounds. The speedy little guard has cornered almost every top spot in the Raider statistical columns. His 234 points over the season leads that department and he is high man in total points during conference play with 106. Mounds also leads in total points scored against one team with 35 against Arkansas, in free throws with 17 against the Razorbacks, and in

free throw attempts with 19 against the same Hogs.

The Aggies have their own sophomore flash to throw at the Raiders. Carroll Broussard, the Plowboy's top man, leads the league in points scored with 263. Assisting Broussard will be the Aggies 6-7 utility man, Wayne Lawrence. According to Bob Rogers, the Aggie coach, Lawrence can play any position with equal skill.

IN THEIR LAST GAME, the leaders lost a tilt to Santa Clara 66-55.

Polk Robison, Red Raider coach, took the entire 12 man squad for the swing through South Texas

which includes tonight's contest plus a game with Texas on Monday night.

"WE WERE real fortunate to win our last two games," Coach Robison said. "Sometimes you have the breaks for you and some times they are against you. We had them and came from behind to win.

"The Aggie game will be an uphill battle all the way. I'd like very much to win this one and be one of the top bracket ball clubs."

The starters for tonight's game are expected to be Mounds, Gene Arrington, James Wiley, Roger Hennig and Steve Lee.

West Virginian Holds Lead In Scoring Race

by the Associated Press

Consistent Jim McDonald of West Virginia Wesleyan "slumped" to a 31.5 point basketball scoring average last week but still remained in front of Kentucky Wesleyan's Kelly Coleman in the small college scoring race.

Since he took over first place three weeks ago, McDonald has maintained a steady 31-32 points a game scoring pace. Latest figures released Friday by the NCAA Service Bureau show McDonald averaging 31.5 for 16 games through Jan. 30. A week before his average was 31.8. Coleman, idle last week, has 31.3 for 12 games.

The only other player averaging more than 30 points a game is Dom Perrelli of Southern Con-

necticut at 30.5.

Pete Gulden of Washington and Jefferson and Zelmo Beatty of Prairie View have been the leaders in field goal accuracy and rebounds since the start of the season. Gulden's current average is .688 to .655 for runner-up Alvin Attles of North Carolina A&T. Beatty's rebound percentage is .238. Jackie Jackson of Virginia Union has .234.

Levy Named Coach

BERKELEY, Calif. (AP)—The University of California Friday announced it has picked Marvin Levy, 34, football coach at the University of New Mexico, as new head coach to succeed Pete Elliott. Levy is a graduate of Coe College at Cedar Rapids, Iowa.



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Board OK's Elgart

(Cont'd from Page 1)

The decision on Greco hinged on whether to take money out of a special Board fund to supplement regular Union special events funds in order to have enough to book Greco.

DEAN ALLEN asked if there was more emphasis on cultural events and "are we spending more money on the cultural events" than the popular ones?

Mrs. Patterson pointed out that \$2,250 was spent for the Buddy Morrow Band for last Homecoming and \$500 for the Pamplona Choir. Bob Honts commented that he thought the Morrow engagement should not be considered a special event, in the same sense as the other groups, due to the special nature of Homecoming.

IT WAS ALSO pointed out that the special events funds must be used each year or are lost for Union events. Honts also commented that he felt the worst possible thing would be not to schedule any special event a all for this spring. This feeling appeared to be echoed by other members.

Dean Allen also said he was definitely interested in what the students would rather have brought to the campus.

In other action, the Board approved a plan to move the present Rec Hall to a position east of its location now, when construc-

tion on the Union expansion begins.

ARCHITECTS' drawings on the Union expansion were also examined by the Board members. The addition to the Union, planned for the west side, will take approximately 18 months to complete.

The next step on the Union expansion is the bringing of plans before the Tech Board of Directors for approval of final plans and specifications. The Union Board reviewed the plans but did not take any action on them.

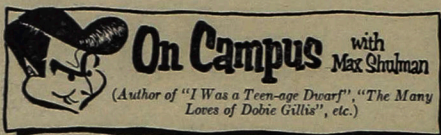
Barn Serves Tech

(Cont'd from Page 2)

building was the original Tech "Hall of Fame." Pictures of past athletes and teams, trophies and plaques, were once exhibited under the east stands.

Plans for the building next year include possible addition of boxing and wrestling rings and boxing lifting facilities, Buchanan said.

For all its use, the one-time warehouse cost a little more than \$1 thousand dollars. Compare that to the cost of the men's gym, \$371,983.84 and the in-progress new women's gym which will cost \$287,740.



APPAREL OFT PROCLAIMS THE MAN

The hounds of spring are on winter's traces. Soon we will be shedding our traukluks and union suits and putting on our spring finery. And what does Dame Fashion decree for the coming season?

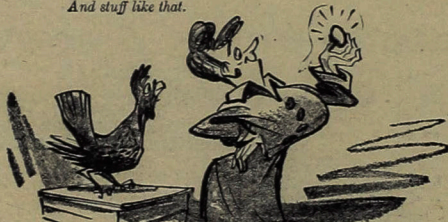
(Dame Fashion, incidentally, is not, as many people believe, a fictitious character. She was a real Englishwoman who lived in Elizabethan times and, indeed, England is greatly in her debt. During the invasion of the Spanish Armada, Dame Fashion—not yet a Dame but a mere, unlettered country lass named Beeky Sharp—during the invasion, I say, of the Spanish Armada, this dauntless girl stood on the white cliffs of Dover and turned the tide of battle by rallying the sagging morale of the British fleet with this stirring poem of her own composition:

*Don't be guilless,
Men of Britain.
Swing your cutlass,
We ain't quittin'.*

*Smash the Spanish,
Sink their boats,
Make 'em vanish,
Like a horse makes oats.*

*For Good Queen Bess,
Good sirs, you gotta
Make a mess
Of that Armada.*

*You won't fail!
Knock 'em flat!
Then we'll drink ale
And stuff like that.*



... In 1589 she invented the egg...

As a reward for these inspirational verses Queen Elizabeth dubbed her a Dame, made her poet laureate, and gave her the Western Hemisphere except Duluth. But this was not the extent of Dame Fashion's services to queen and country. In 1589 she invented the egg. In 1590, alas, she was arrested for poaching and imprisoned for thirty years in a butt of malmsey. This later became known as Guy Fawkes Day).

But I digress. Let us get back to spring fashions.

Certain to be popular again this year is the cardigan (which, curiously enough, was named after Lord Cardigan, who commanded the English fleet against the Spanish Armada. The sweater is only one product of this fertile Briton's imagination. He also invented the ball-peen hammer, the gerund, and the molar, without which chewing, as we know it today, would not be possible).

But I digress. The cardigan, I say, will be back, which is cause for rejoicing. Why? Because the cardigan has nice big pockets in which to carry your Marlboro Cigarettes—and that, good buddies, is ample reason for celebration. Do you think flavor went out when filters came in? If so, you've got another smoke coming. I mean Marlboros—all the rich, smooth flavor of prime tobaccos plus a filter that really filters. So slip into your cardigan and hie yourself to your tobacconist for some good Marlboros. They come in soft pack or flip-top box. Cardigans come in pink for girls and blue for boys. © 1960 Max Shulman

If you're a filter smoker, try Marlboros. If you're a non-filter smoker, try Philip Morris. If you're a television watcher try Max Shulman's "The Many Loves of Dobie Gillis"—Tuesday nights, CBS.

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Play Tryouts Begin Monday

Tryouts for the forthcoming play, "A View From the Bridge," by Arthur Miller, will be held in the Speech Auditorium from 7 to 10 p.m. Monday and Tuesday.

RONALD SCHULZ, Associate speech professor and director of the new production, will conduct the tryouts. He stated that no experience is necessary and any student who is interested in acting is eligible for a part in the play.

Several leading roles in "Picnic," he added, were played by people with no previous experience.

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