

Students construct solar collector for study of sun's uses

By REAGAN WHITE
UD Reporter

The inflating prices of today's conventional energy sources magnify the advantages of alternate energy sources.

One of the most promising alternatives is solar energy, and students in an applied solar technology course recently constructed a solar collector to help their understanding of the practical

benefits of solar energy.

Professor C. E. Teske of the department of engineering technology said the course is directed at helping students understand the principles of solar radiation, collection and storage.

To help learn the problems of building a solar collector, and to demonstrate how much cheaper it is to build a collector than to buy one, students were "required to either construct a solar project, or to do a complete

analysis of a working solar system," Teske said.

Teske said whether or not a solar collector is economically justifiable can be established by a life cycle cost analysis, which takes into account all costs involved in getting a solar system functioning.

Costs include the down payment for the system, interest on a loan, operating costs, maintenance costs, and property tax. A comparison between the expenses involved in a conventional heating system and a solar

system will then make possible a choice of the most economical size system, he said.

"Solar energy is becoming a better alternative to conventional space heating and domestic hot water systems as non-renewable energy sources continue to inflate in price," he said.

"The cost of natural gas is inflating at a rate of 24 percent, while electricity is inflating at a rate of 15 percent.

Special tax credits offered to help cover expenses for installing solar panels have also made solar energy a more attractive alternative," he said.

"The technology is here today for residential application of solar energy," Teske said.

The solar panel constructed by his students, Kelly Brian and Greg Spencer, took five hours to construct, and cost a grand total of \$64, "but would

have been about \$15 less if we had used pine instead of redwood, so it would look better," they said.

The collector has 32 square feet of surface area, and is tilted at 48 degrees in order to collect the sun's radiation as efficiently as possible.

Two clear sheets of thin plastic cover a piece of corrugated tin which is painted flat black. About two inches separate the plastic sheets, and about two inches

of air are on either side of the absorber.

The dead air trapped between the layers of plastic provide insulation to increase efficiency, Brian said.

If the fan used to circulate air over the tin is left on 24 hours a day, the cost of operating the panel is \$1.88 a month, and since the fan will actually be on about one-third of that time, the cost will be about 63 cents a month, Spencer said.

CAMPUS BRIEFS

Sport, leisure course offered

The Department of Health, Physical Education and Recreation at Texas Tech University will offer a course in international sport & leisure for the fall 1980 semester.

Drs. Bob A. Mechikoff and Jeff A. Stuyt will conduct the course which has been designed for a team teaching approach.

A specialist in sports sociology, Mechikoff will teach the sport section. Stuyt, a specialist in the field of recreation, will teach the international leisure section.

Surgeon to speak on Hispanics

Dr. Ray Santos, a local orthopedic surgeon, will speak today about "The Role of the Mexican-American in the 1980's" as a part of the Mexican Awareness Week.

Santos will lecture at 7 p.m. in the Coronado Room in the University Center, as Mexican Awareness Week enters its third day. The program, sponsored by United Mexican-American Students, will continue until Friday.

Wednesday, April 16
7:00-9:00 p.m.

Dr. Ray Santos M.D., Speaker
Orthopedic Surgeon
"The Role of the Mexican American in the 80's"
Coronado Room, University Center

ASAE president installed

Norman T. Moore of Lubbock was installed recently as the 1980-81 president of the Texas Tech University student branch of the American Society of Agricultural Engineers (ASAE).

Installation of new officers took place at a spring awards banquet honoring students majoring in agricultural engineering. Max Slaughter of Toastmasters International was the speaker.

Marvin J. Dvoracek, chairman of the Department of Agricultural Engineering, presented the awards.

Texas Beta Chapter of Alpha Epsilon, national agricultural engineering honor society, recognized five students for having the highest grade point averages in their classes. Recognized were: Douglas P. Landers, 1420 Blossom Ave., Redlands, Calif., freshman; Susie McCurry, Cypress, sophomore; and Charles E. Gamio, 9 Calle Poniente, San Salvador, El Salvador, junior.

Senior students with the highest grade point average in each curricula of the department were presented plaques. Recipients were Billy M. Vannoy, Hope, Ark., mechanized agriculture, and James H. Waller, Albany, agricultural engineering.

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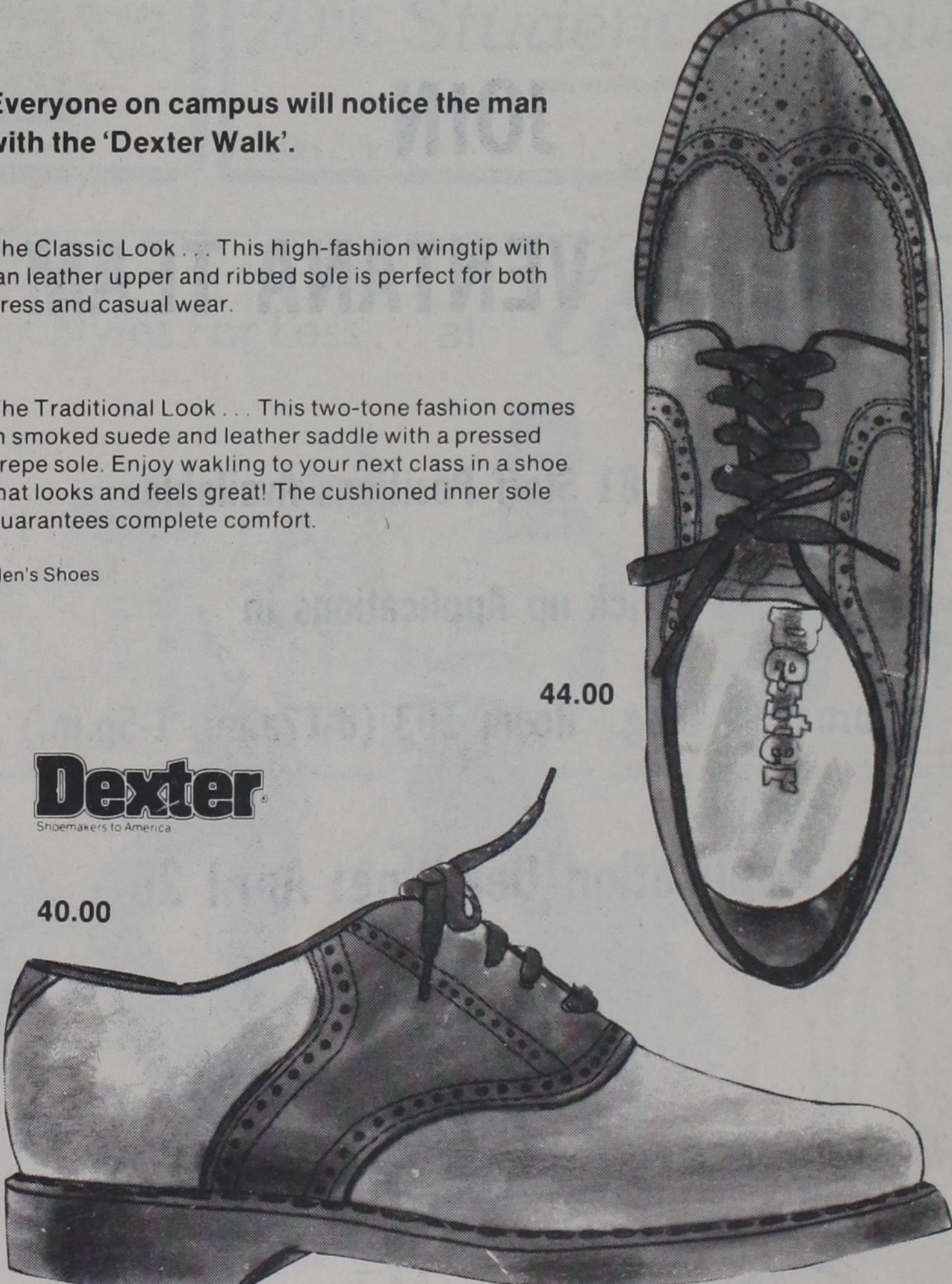
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Scientists turn to DNA for understanding of cancer causes

(c) 1980 N.Y. Times News Service

NEW YORK — In seeking to understand why some substances cause cancer and what can be done about it, scientists are turning more and more to the DNA, the body's ultimate genetic material.

DNA (deoxyribonucleic acid) contains the chemical messages of heredity that tell every living cell what it can do and what its progeny can become. Active forms of cancer-causing substances actually bind to the DNA and distort it, a subversion that evidently can lead to permanent and deadly changes in the most basic regulation of life.

NEW RESEARCH on the details of this subversion suggest tests to tell, long before cancer could develop, whether a person has actually been harmed by exposure to a cancer-causing substance, or carcinogen. Other tests may permit the drawing of a profile of a person's inherent risk of harm from some of the most widespread cancer-causing substances known.

Roughly 25 to 30 substances are proven carcinogens in humans, but the list is bewilderingly diverse, including natural and synthetic chemicals, hormones, metals, asbestos and aflatoxin, a fungus product.

Despite the confusing diversity, there is a unifying principle among a broad category of the chemical causes of cancer. Many of these substances are inactive in their natural form and start the cancer process only after they are converted within the body into highly reactive forms. The forms bind to the DNA and distort it.

The binding mechanism, originally discovered by Drs. Elizabeth and James Miller of the University of Wisconsin about 25 years ago, has become a virtual axiom of cancer research. Some substances are thought to act directly on DNA or a related nucleic acid or some key cell protein. Many others act through the highly reactive metabolites produced

several thousand times more potent in causing mutations than any of the others, Gelboin said. Cells that cause mutations are often capable of causing cancer and tests of mutagenicity are used to gauge the cancer potential of suspect chemicals.

"It all hangs together," Gelboin said of the diolpoxide. "It is the most mutagenic. It is the one found in DNA. We have been able to elucidate the enzymatic mechanisms by which it is formed."

THE ENZYMES can be found in many tissues, including blood. Studies have shown individual variations in the pattern of these related enzymes. The studies have suggested a new kind of biochemical profile as a gauge of cancer risk. By knowing the specific chemical pathway that leads to the dangerous diolpoxide, scientists might test human cells to draw a personal enzymatic profile showing whether or not the individual was likely to transform benzo(a)pyrene into a harmless excretable substance or into the form that binds to and distorts DNA.

There are wide variations in the speed with which individuals break down drugs. Perhaps there may also be individual variations in chemical processing of chemicals such as benzo(a)pyrene.

"If you have 1,000 people who smoke a pack of cigarettes a day for 30 years," Gelboin said, "20 percent will probably develop lung cancer."

Could enzyme profiles pick out the people who face the greatest risk? This has been tried, without success, using the same general group of enzymes as a whole. Now that it appears possible to sort them out, distinguishing the potentially dangerous from the harmless chemical pathways, such profiling seems much more likely to succeed.

The body has other enzymatic systems devoted to repairing faulty DNA. Special enzymes recognize the errors, ship them out of the long twisted strand of the genetic material. Then other enzymes put the strand back together again after the right chemical sequence has filled the gap.

A rare disease called xeroderma pigmentosum, in which early death from skin cancer is common, has been explained by faults in the patient's natural ability to repair DNA after exposure of the skin to sunlight has damaged it.

THE BODY is by no means defenseless against carcinogens, whether they be chemical substances, radiations such as X-ray or sunlight, or some viruses, which probably act directly to insert their own specific subversive messages into the DNA. While some viruses are strongly suspected of causing certain cancers in humans, the evidence remains just short of conclusive proof.

Some viruses have been proven to cause cancers in animals. A key difference between a chemically induced

cancer and one caused by a virus is that the latter tend to be uniform while those caused by chemicals are much more variable. It seems to be a difference between subversion of the DNA by a specific viral message and random damage by a chemical.

Dr. Daniel Nathans, the Nobel Prize winner from Johns

While the body has its own defenses, cancer too has multiple weapons. There is a distinct group of other substances that act as cancer promoters, not causing irreversible changes at the start, but producing an environment within tissues that seems to promote carcinogenesis.

A current theory gaining considerable support among scientists is that the mutations, or changes in the DNA, that lead to cancer do so less by direct action than by upsetting the stability of the body's complex plan of cellular differentiation. This would help explain the fact that cancer often takes decades to develop.

Cellular differentiation is the developmental process that makes it possible for a single fertilized egg cell to divide, re-divide and proliferate to form the almost incalculable billions of specialized cells that constitute a fully developed adult animal or human being.

The worldwide search for an understanding of carcinogenesis, therefore, has implications even beyond the crucial one of coping with a major cause of human tragedy and death. Within the tangled skein of the cancer process and the body's defenses against it, lie insights into the very nature and organization of life.

"...we are beginning to think of DNA in a dynamic sense..."

in the body's efforts to render the original chemical easy to excrete.

Carcinogenesis, the process by which cancer originates, could be thought of as the effects of a natural protective process going astray.

The specific sites and configurations of the chemical binding to the double helix of DNA seem to vary from substance to substance among those that produce cancers.

What happens after the binding has taken place is a puzzle under attack at many laboratories. In general, the presence of the foreign material distorting the DNA is believed to lead to errors in the replication that genetic material must undergo to provide genetic instructions for each new generation of cells.

"We are beginning to think of DNA in a more dynamic sense than in the past," said Dr. I. Bernard Weinstein of Columbia University's Institute for Cancer Research during a recent symposium.

He and colleagues at Columbia and the National Cancer Institute have recently produced antibodies that well detect the difference between normal DNA and DNA that has been deformed by a metabolic product of benzo(a)pyrene, a cancer-causing substance present in tobacco smoke, automobile exhaust and other sources of environmental pollution. The chemical is a prime example of a huge class of substances called polycyclic hydrocarbons.

"**THIS TECHNIQUE** is providing a valuable tool for studies on the interaction of carcinogens and DNA," the research group said in a recent report in the scientific journal, Cancer Research. "It also provides a novel approach to monitoring a biological consequence of human exposure to specific chemical carcinogens through assay of DNA from cells and from tissues of exposed individuals."

The active form of benzo(a)pyrene usually binds to a chemical subunit called guanine in the DNA, a fact that took on possible new significance last year with a discovery by Dr. Alexander Rich's research group at the Massachusetts Institute of Technology. The found that the helix of DNA, long thought to have an exclusively right-handed twist, sometimes takes a left-handed form.

When the DNA is twisted to the left, the guanine units are more exposed and therefore more accessible to attack by some carcinogens. Rich suggested that this form of DNA may facilitate binding by the cancer-causing substance.

A group led by Dr. Harry V. Gelboin, chief of the National Cancer Institute's laboratory of molecular carcinogenesis, has worked out in great detail the steps that lead to the activation of benzo(a)pyrene into a highly reactive form called a diolpoxide.

At least four groups of enzymes are involved, he said in a recent interview. In the enzymes' efforts to dispose of this foreign chemical, metabolic pathways can lead to any of at least 40 different chemical variants on the original.

Of these variants, the diolpoxide has been shown by collaborators at the Weizmann Institute in Israel to be

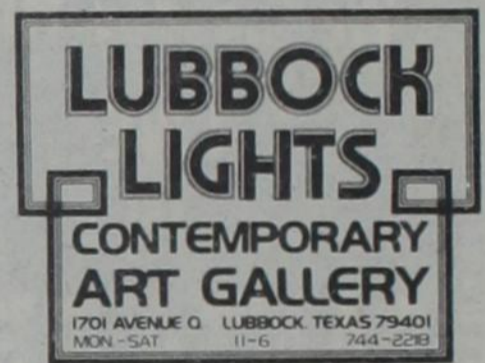
"...20 percent of 1,000 people who smoke a pack of cigarettes a day for 30 years will develop lung cancer..."

Hopkins, is directing a research team that has found a genetic speedup-slowdown switch in a much studied cancer virus called SV-40. The discovery is expected to help scientists understand carcinogenesis through clues to the basic controls over cellular growth.



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Farmers face risk of cancer

IOWA CITY, Iowa (AP) — The death rate for Iowa farmers from six kinds of cancer is much higher than for non-farmers, indicating the "healthy farm life has its cancer risks," a university research team reported Tuesday.

The University of Iowa researchers said, however, that the overall cancer death rate for Iowa farmers was lower than for non-farmers because farmers do not contract fatal smoking-related cancers as often.

The study, based on death certificates of 20,311 white Iowa men from 1971 to 1978, found farmers were more likely to die from leukemia and prostatic, lip, stomach, bone marrow and lymphatic cancers than were non-farmers.

The researcher said the team felt the cancer rates that were most prevalent among Iowa farmers were occupationally oriented. Burmeister said farmers might be more susceptible to certain kinds of cancer because of animal viruses, farm chemicals and dust from hay and ensilage.

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ATB

Actor believes

Character resembles Russian Neil Simon

By BRENDA MALONE
UD News Editor

Neil Simon could probably sit back and feel right at home at Tech's upcoming performance of "The Seagull" because at least one of the play's characters greatly resembles Simon himself, according to Kent Kirkpatrick.

Kirkpatrick, a drama enthusiast studying architecture at Tech, will play the Simon-like character Trigorin in the Lab Theater's production of Anton Chekov's play. The play opens Thursday and runs through Tuesday.

"I see the Russian writer as a Neil Simon-type guy because he's a successful writer. He has written several witty things — but what do people say about him! 'He's charming . . . but not Tolstoy,'" Kirkpatrick said. "Basically, Trigorin is somewhat of a bad guy — but also one of the most believable and realistic characters in the play," he said. "For example, there's the aspiring actress, the very famous actress and the aspiring writer . . . but in the end, Trigorin is the character who survives and keeps going." The play was written before the turn of the century by Chekov to show the everyday life of the landed gentry and the professional middle class

in Russia at that time — before the revolution of 1905. "The characters, and especially Trigorin, portray realistic scenes in everyday life — life that somehow seems serious and heavy, but somehow turns into ironical and humorous comedy," Kirkpatrick said. In fact, Americans may have misinterpreted Chekov's plays in the past because they did not see the irony in them, Kirkpatrick said. "Checkov's plays have a reputation of having serious and heavy themes — or perhaps the plays seemed that way because of the translations used," Kirkpatrick

said. "But Chekov was misrepresented. His plays are labeled comedies in Russia and that is what Chekov intended — humor and comedy." Kirkpatrick said he feels that the performance of the play in the Lab Theater will help emphasize the wit and comedy intended by Chekov. "Performing in the smaller Lab Theater is a lot like a movie — the action is close to the audience," he explained. "And, subtle gestures, facial expressions and movements are all easier for the audience to see. It is these subtle elements that help lend to the humor of the play — and I think the Lab Theater atmosphere will help the audience enjoy the intended humor."

Though the play is set in Russia about 80 years ago, the comedy is not limited to that era, Kirkpatrick said. "In fact, it is easy to see everyday scenes of today in the play," he said. "Some of the situations and comments are timeless."



A good writer, but... Photo by Mark Rogers

People feel Trigorin (Kent Kirkpatrick) is a good writer, but that he's just not Tolstoy. In this scene from "The Seagull," the writer rests his head on Arkadina's (Freda Williams) lap. Arkadina is one of the two women with whom Trigorin is involved during the play. The play opens Friday at Tech's Lab Theater. Call 742-3601 for reservations.

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An occasion

Jazz band **SpyroGyra** will appear at Rox Sunday night, which is somewhat of an occasion, since most jazz bands don't stop in Lubbock often. The group is currently riding the success of its latest album. Tickets are \$6.50 in advance, \$7.50 at the door.



Film festival deadline nears

Amateur film producers with a desire to hit the big screen have until Friday to enter the third annual Amateur Film Festival, according to Michael Hatch, advisor of the UC Films Committee. For an entry fee of \$1 for Tech students and \$10 for non-students, producers of 8 millimeter, Super-8 or 16 millimeter films can have their products featured at the April 22 Film Festival. The festival will begin at 7 p.m. in the UC Theatre, with free admission. In addition to the film competition, a new category has been added this year for video-tapes, according to Hatch. The two winners will receive a \$15 award and will have their entries shown on the UC's close circuit TV system. The first place winner in the film competition will receive \$50, second place will receive \$25, and third, \$15.

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Hatch also noted that the possibility of showing the entries as a short subject prior to a feature film in the UC Theatre was being left open. Film entries include everything imaginable, according to Hatch. "We have had some serious ones, some funny ones, one animated one and a western," he said. "Last year we had one where a guy in a white tuxedo and a gorilla mask went into a Dairy Queen and ordered an ice cream cone. The thing was titled 'Neo-primate feeding habits.'"

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THE LATE GREAT LOST RECORD REVIEW

(OR...ALBUMS YOU MIGHT HAVE MISSED)



BY M.W. CLARK

The Yardbirds was a group ahead of its time. Not only did it, at different times, feature three of the greatest contemporary rock guitarists, Eric Clapton, Jeff Beck and Jimmy Page—the music actually stemmed from the American blues.

"Shapes of Things," a double album release on Bomb Records, features some of the Yardbirds' best material from 1964-1966. The original Yardbirds, which was featured on its first British record "Five Live Yardbirds," consisted of Jim McCarty on drums, Eric Clapton on guitar, Paul Samwell Smith on bass, Chris Dreja on rhythm guitar and Keith Relf on harmonica and vocals.

Featured on "Shapes of Things" is one of the Yardbirds' biggest hits, "For Your Love." The Yardbirds were looking for a commercial hit like "For Your Love" in order to try and receive some radio airplay. Clapton, however,

A group before its time — The Yardbirds

(founding member of 10 cc). They were "Heartful of Soul," with its James Bond type sound and "Evil Heated You." "Heartful of Soul" was the first song Beck did with the Yardbirds.

Beck eventually became unreliable, not showing up for shows and Paul Samwell Smith left because of the strain. At that time, Page came in on bass. Soon Dreja switched to bass and Page switched to guitar. For a brief period Beck and Page were playing dual leads and would try to outdo each other, but unfortunately Beck could not handle the pressures and quit the band.

The songs on "Shapes of Things" represent mainly the early-to-mid years of the group. From the early years, "Smokestack Lightning" is probably the best reflective piece of Clapton's work. Drawn from the live album it is a pretty rough recording, and Clapton's leads still are

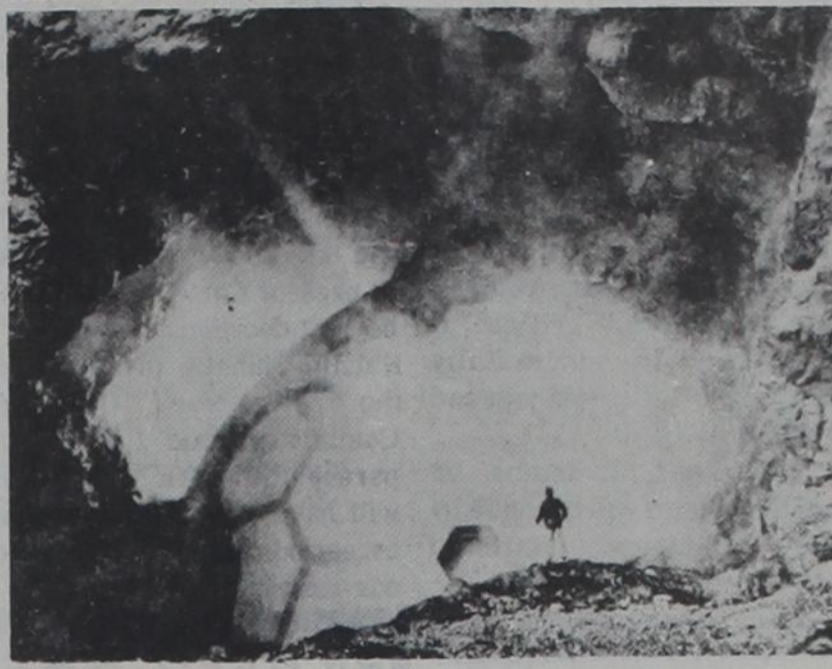
raw and basically untapped. Those familiar with Aerosmith have probably heard the group's version of the song "Train Kept A Rolling." What many don't

realize though, is that the second half of the song is a direct take-off of the Yardbirds' version—only the Yardbirds' version is more exciting. The song is indeed a

classic and was performed (with different words) by the Yardbirds in a party scene in the movie "Blow Up." Beck even tears up his guitar during this scene.

The Yardbirds never made it "commercially" as much as the band would have liked to. The band, did, however, contribute immensely to the music of the '60s and '70s. Included on "Shape of Things" are many of these influential songs: "Still I'm Sad," "I Ain't Got You," "Mr. You're A Better Man Than I" (engineered by Elvis' discoverer Sam Phillips) and "New York City Blues."

If you're a Led Zeppelin or Cream fan, this album is definitely worth a listen. "Shapes of Things" will be featured today on the Late Great Lost Record Review on KTXT-FM between 3:30 and 4:30 p.m.



3-D movie

"It Came from Outer Space," a science fiction classic, will be shown in 3-D at 8 p.m. today in the UC Theater. Admission for the film is \$1. It is based on Ray Bradbury's classic science fiction novel.

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 - Gallagher and Lyle, morning feature artist, on KTXT-FM from 6 to 9 a.m. Thursday.
 - Laura Nyro, morning feature artist, on KTXT-FM from 6 to 9 a.m. Friday.
 - Queen — Live Killers, Friday Night Live on KTXT-FM at 10 p.m. Friday.
 - Clubs
 - The Teetotalers at Chelsea Street Pub tonight through Saturday. No cover charge.
 - Whiskey Drinkin' Music at Cold Water Country tonight through Thursday and Saturday. Ronnie Sessions Friday. Cover is \$2 for men, \$1 for women tonight and Saturday, \$4 Friday and no cover charge Thursday.
 - Larry Trider at the Red Raider Inn tonight, Saturday and Sunday. Box Car Willie Thursday and Box Car Willie with the Maines Brothers Friday. No cover charge tonight and Thursday. Cover is \$3 Friday, \$2 Saturday and \$1 Sunday.
 - The Great Rubber Band at 3838 Club tonight through Saturday. No cover charge.
 - Jay Boy Adams at Fat Dawg's Thursday through Saturday. Cover is \$2.50 Thursday and \$3.50 Friday and Saturday.
- Film
- "It Came From Outer Space," Cinematheque Series, at 8 p.m. tonight in the UC Theater. Admission is \$1.
 - "Moonraker" at 1, 3:30, 6 and 8:30 p.m. Friday at the UC Theater and 3:30, 6 and 8:30 p.m. at the UC Coronado Room. Admission is \$1.50 for students with a Tech ID.
 - "Cocoanuts" and "Animal Crackers," in a Marx Brothers double feature, at 7 p.m. Sunday in the UC Theater after a buffet dinner at 6 p.m. in the UC Storm Cellar. Admission is \$1.50 for the films, \$3.50 for dinner and \$4.50 for both.
- Theater
- "Move Over Mrs. Markham," by the Country Squire Dinner Theater, tonight through Saturday. Call 794-2738 for reservations.
 - "The Seagull," by the Lab Theater, at 8:15 p.m. Friday through Tuesday. Admission is \$1.50 for students with a Tech ID, and \$2 for the public. Students may be seated free of charge if seats are available.
- Other
- 5 by 2 Dance Company, in residence, all day Thursday and Friday in the UC.
 - Star Trek — "The Menagerie," on videotape, at 12 p.m. Thursday in the UC TV Lounge and 7:30 p.m. Thursday in the UC Storm Cellar.
 - Bon Voyage Party at 7:30 p.m. Thursday in the UC Lubbock Room.
 - Tech Varsity Band in a concert at 8:15 p.m. Thursday in Hemmie Recital Hall.
 - Duncan Tuck from 8 p.m. to 10 p.m. Friday in the UC Storm Cellar.
 - Choir and Ensemble Concert at 8:15 p.m. Saturday in Hemmie Recital Hall.
 - 5 by 2 Plus Dance Company, artist series, at 8:15 p.m. Saturday in the UC Theater.

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Recreational Sports

Playoff field narrowed to 16

Sixteen men's intramural softball teams remain in contention for the all-university championship, which will take place at 5:30 p.m. Sunday on one of the recreational fields adjacent to Stangel-Murdough.

The women's softball championship will be decided at 4 p.m. Sunday, and the co-rec champ will be determined at 1:30 p.m.

Eight teams remain in contention in the women's division. On Thursday, the field will be narrowed to four and then to only two, as six quarterfinal and semifinal contests narrow the number of survivors.

DG and Chitwood will square off at 6 p.m., as will Campus

Advance and The Stuff. At 7 p.m. Thursday, Knapp and TBE and the Hot Dogs and KAT will collide. The two semifinal games will take place at 7 p.m. also.

The co-rec playoff field was also pared to eight teams Tuesday night. The clubs will square off in four games at 5 p.m. tonight. The co-rec semifinals are slated for 6 p.m. Thursday.

Four teams remain in contention for the championship of the men's club division. In Tuesday night's club division action, AEP1 squared off against Teke I, SPE battled Entomology, Double T competed against IEEE "A", and Campus Advance played ASCE. The four survivors will collide at 6 tonight.

In Tuesday night's residence hall division action, Clement Orange Crush played Sneed Silver Streak, Murdough Machine squared off against the Gord Trolls, Murdough Draw Brothers battled the Weymouth Monkees, and Wells Zoo squared off against the Red Lighters. The four winners play at 6 p.m. today.

In the men's open division, four teams remain in contention for the all-university finals. Tuesday night, JKV played FSCS, Exodus battled Big Sticks, Goodnuff faced Bad Co., and Missing Pub met the Texas Tokers. The winners play at 7 tonight.

The championships of the individual men's divisions (Greek, club, open, and residence hall) will be decided Thursday. The Greek champ will play the club winner at 7:30 p.m. Friday, and the residence hall victor will square off against the open winner, also at 7:30 p.m. Friday.

The campus community all-university championship will be decided April 26.

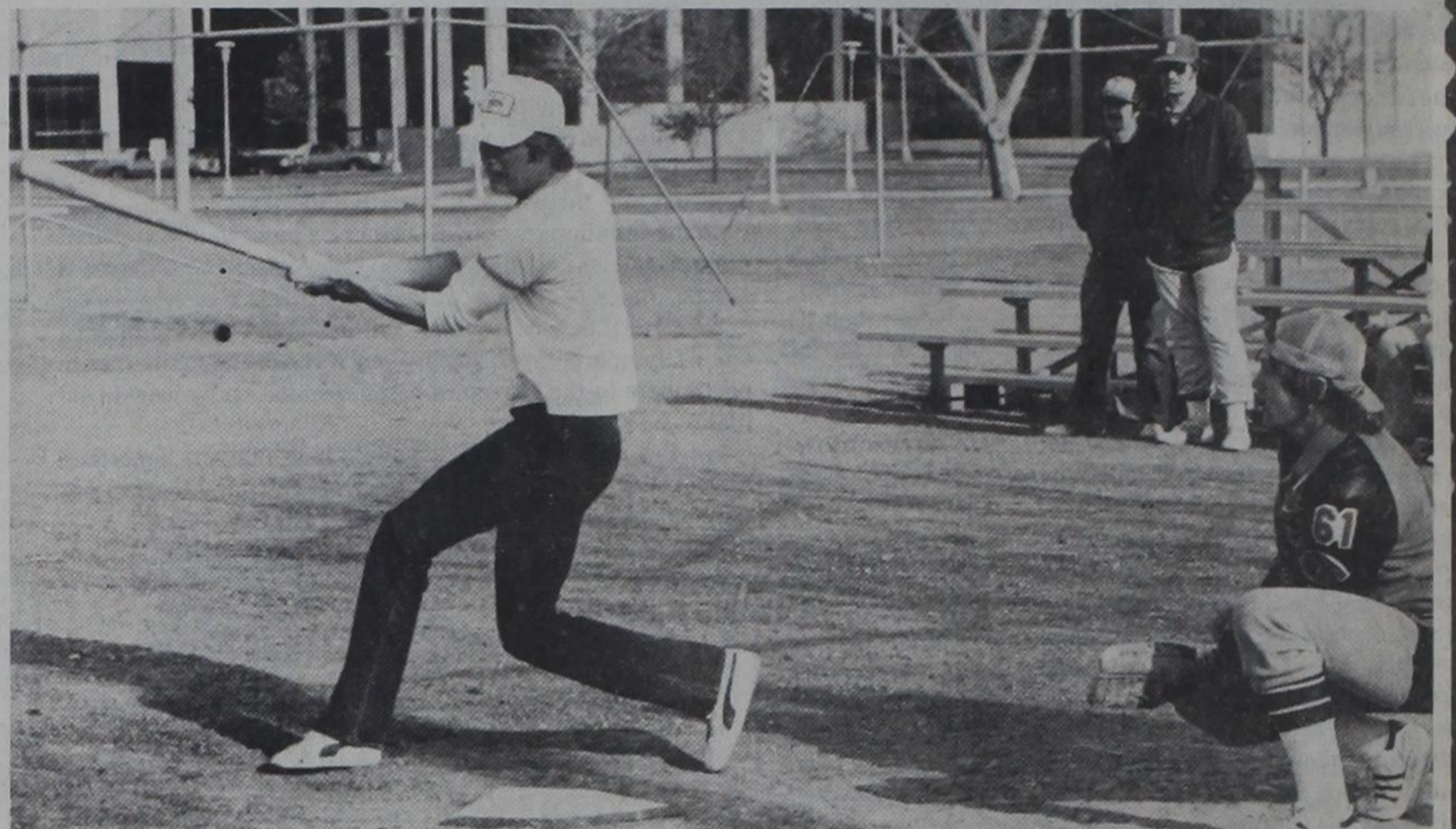


Photo by Mark Rogers

Home run

Kevin Robinson of the Murdough Swamp Gators cracked a home run on this particular play as his team battled Sneed Silver Streak in recent intramural softball playoff action. John McDowell (catching) watches the action. A full slate of

playoff games are on tap for this week. IM softball will culminate Sunday with the men's and women's all-university championships.

IM Top 10

MEN'S SOFTBALL

1. Exodus
2. Wells Zoo
3. Clement Orange Crush
4. Missing Pub
5. Weymouth Monkees
6. Project X
7. Phi Deltas "A" SPE (tie)
8. Meat Packers
9. ATO "A"
10. Pikes "A"
11. Tekes I
12. Pikes "B" (tie)
13. Texas Tokers (tie)

WOMEN'S SOFTBALL

1. Hot Dogs
2. Knapp
3. Delta Gamma
4. FNTC
5. Chitwood (tie)
6. TBS
7. Campus Advance (tie)

CO-REC SOFTBALL

1. Betas-Sisters
2. S-M Special
3. Shut Up
4. ASM
5. Tokers-Zaps



Photo by Mark Rogers

Scoring position

Steven Sims of Sneed Silver Streak gets ready to run in action during last weekend's intramural softball playoffs. Keith Fields (far left) pitches for the Murdough Swamp Gators.

Both teams hope to compete in this Sunday's all-university title game. The campus community championship will be decided April 26.

SPORTS BRIEFS

SATURDAY LIVE

This week's Saturday Live program will feature a singles racquetball tournament and a singles handball tourney. Both events will take place this Saturday morning on the outdoor handball courts.

All students, faculty, and staff are eligible to enter. Entries must be turned in by 5 p.m. Thursday in the Rec Sports Office.

CYCLING INFO

Radio station KSEL will sponsor a program of bicycle races on April 27. Entry fee will be \$1, and entry blanks may be picked up at KSEL, Mr. Burger, Hutchinson's Cycles, and the Rec Sports Office.

The races will take place in the Canyon Lakes area. There will be junior, women's veterans (over 35), and senior (18-35) divisions. Registration will begin at 11:30 a.m., and the races start at 1:30 p.m.

Derrick Wade captured first place in the licensed riders division recently in a bicycling criterium sponsored by the Tech cycling team. Jerry Anderson placed second among licensed riders, and Tom Hutchinson earned third. Lee Williams, Jack Ragzor, and Ross Meyer took first, second, and third, respectively, in the unlicensed riders division.

Another cycling criterium will be held at 6 tonight in the Tech Museum parking lot.

CANOE TRIP

A canoe trip down the Concho River, located near Sar Angelo, is being planned for this weekend by Rec Sports. The group will leave Saturday morning and return on Sunday night. The cost is \$17.50. A mandatory pre-outing will be held tonight.

TENNIS LESSONS

Rec Sports will sponsor intermediate-advanced tennis lessons beginning Monday and continuing through April 24. Each class will begin at 6 p.m. Mamie Bevers, former varsity player, will be the instructor.

COMING SOON

Entries are due by 5 p.m. today for putt-putt singles and women's fast-pitch softball. Entries are due Thursday for men's fast-pitch softball.



Photo by Max Faulkner

Flying leap

Doug Sanders of Sigma Phi Gamma competes in the broad jump during the Intramural Track and Field Meet held Friday and Sunday at R. P. Fuller Track Stadium.



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