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## NOVA: The University of Texas at El Paso Magazine

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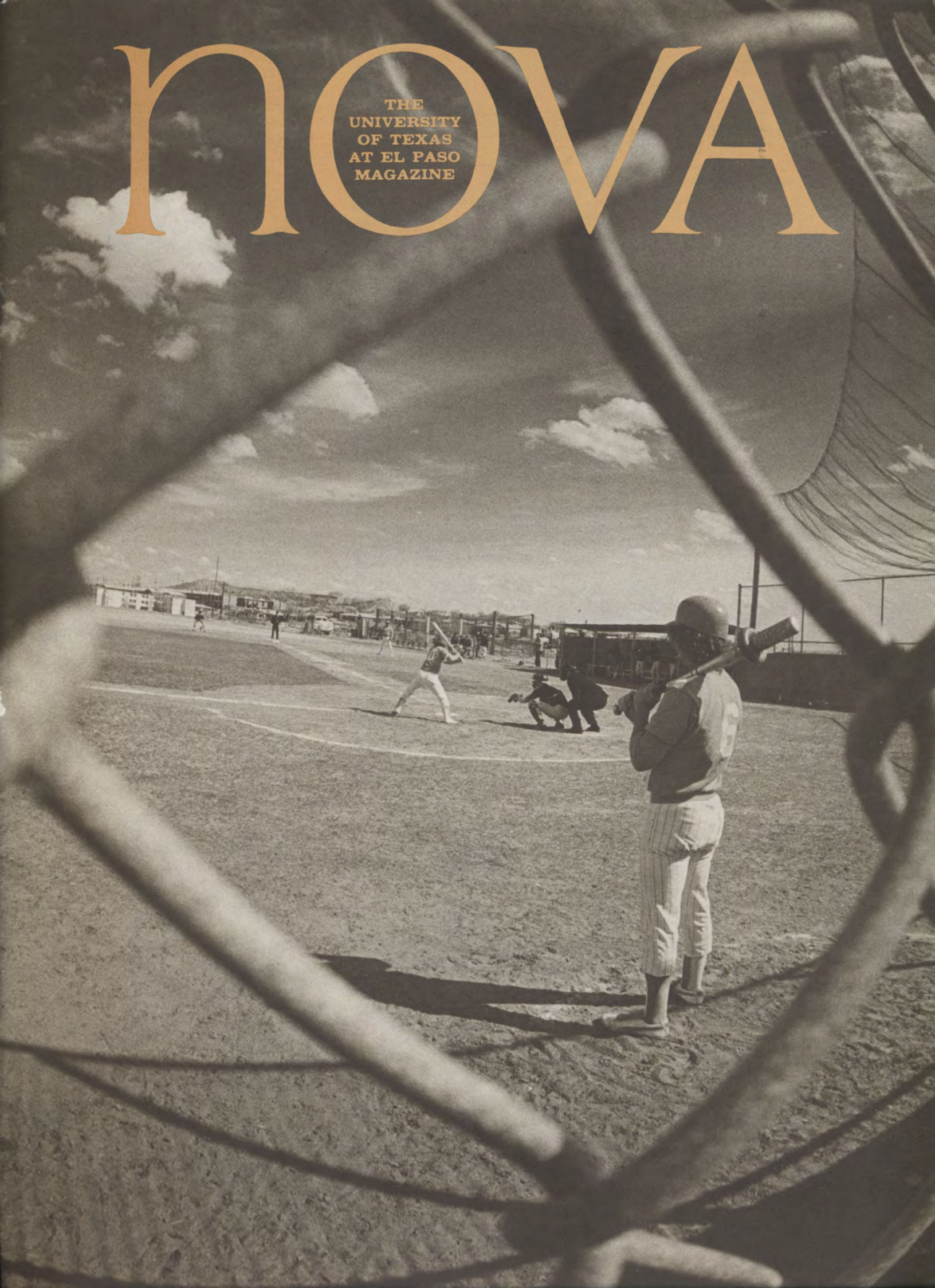
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# nova

THE  
UNIVERSITY  
OF TEXAS  
AT EL PASO  
MAGAZINE





# The View From the Hill...

Ruben Salazar graduated from Texas Western College in 1954 and in the 16 years of his professional career, established himself as among the finest newspapermen ever to come out of the Southwest. Even the column he wrote for the *Prospector* 25 years ago, "The Shot World," has a sustaining quality to it and remains very readable and provocative. Two stories that are often recalled of Salazar's several years as a reporter for the *El Paso Herald-Post* were his 24-hour self-imposed ordeal in the County jail drunk-tank, and a dope purchase in Juarez to prove how easily it could be done.

Salazar left El Paso in 1959 and went to work for the *Los Angeles Times*, moving up to Mexico City bureau chief, Vietnam correspondent, and columnist. After leaving the *Times* to become news director for KMEX-TV in Los Angeles, Salazar continued writing his column.

He was killed by a tear-gas projectile in August, 1970, during the East Los Angeles riots.

Now, NOVA has received word of the dedication of the Ruben Salazar Library at Sonoma State University, Rohnert Park, California, about 50 miles north of San Francisco. The Salazar Library ceremonies took place March 2-3, sponsored by M.E.Ch.A. (Movimiento Estudiantil Chicano de Aztlan.)

\* \* \* \*

You may have some outmoded ideas of what the freshman university student is like these days and if so, you might be enlightened by a new survey conducted by *The Chronicle of Higher Education* in its January 22, 1979, issue. *CHE's* survey includes the responses of 187,603 students at 383 "representative colleges and universities"—a fair sampling.

These are some of the findings:

Among "characteristics" of the freshman class of 1978-79 (meaning those who entered higher education for the first time last fall), the average student is 18 and from an Anglo-American background (88.5%); the majority of entering freshmen are not well-prepared in foreign languages or study habits; and 24.9% will need remedial work in math. About 56% planned to live in the dormitories. The vast majority (75.4%) decided to go to college to be able to get a good job, to be able to make more money and to "learn more about things". Of the "probable major fields of study" to select from, ranging from Accounting to Zoology, most entering freshmen hadn't the foggiest notion of what this would be and the largest responses came in Business Administration (6.9%), Accounting (6.7%), and Nursing (4.1%). Of probable career occupations, "business executive" won 9.3% of the responses—scarcely an indicator of anything—and "Engineer" 9.1%.

In religious preference, 37.5% of entering freshmen last fall, of the schools surveyed, were Roman Catholic; 13% Baptist, 10.3% Methodist, 5.8% Presbyterian, and the remainder scattered from Congregational to "Other or None". The father's occupation was businessman in 29.6% of the responses (skilled worker was second, with 11% of the responses), the mother's a full-time homemaker (31.4%, with clerical worker second at 10.4%), and 41.9% of the mothers are high school graduates, 28.3% of the fathers. Average parental income ranged from \$15,000 to \$25,000 in 32.5% of the cases. Only 1.2% of the entering freshmen are married.

Most of the freshman class is concerned about financing their education (50.6%), 14.8% finding this a "major concern", and 41.1% intend getting a job to help defray the cost of their schooling. (Those who do not intend seeking a financial aid program such as a BEOG—basic educational opportunity grant—account for 78.3% of the total surveyed.)

Of the 187,603 students who responded to the survey, 85.5% attended a religious service during the past year; 58.5% took vitamins at one time or another; 46.3% wear glasses or contacts; 81.6% attended a public recital or concert; 67% stayed up all night at least once; 73.2% drank beer; 43.9% played a musical instrument; 13.9% smoked cigarettes; 16.8% took part in some kind of demonstration, 5.1% took a tranquilizer at least once during the year; and 24.9% jogged.

Expectations are high: 41.4% of the freshmen expect to make at least a "B" average; 64.7% expect to get a bachelor's degree; and 67.4% expect to find a job in their preferred field.

Among attitudes of the 1978-79 freshman class surveyed, 57.8% consider themselves middle-of-the-road politically (23.6% say liberal, 16.1% say conservative). A whopping 81.5% say the government isn't controlling pollution; 73.1% say the government isn't protecting the consumer; 65.4% say the courts are too concerned with the rights of criminals, and 32.6% believe the death penalty should be abolished.

Eighty-one per cent of those surveyed say the energy shortage is causing an economic depression; 92.7% say women should have job equality; 73.4% believe the wealthy should pay a larger share of taxes; 72.3% say students should help evaluate faculty; 49.5% believe marijuana should be legalized; 48.6% say divorce laws ought to be liberalized; 56.7% believe abortion should be legalized; 63.7% believe grading in high school is too easy; 41.5% believe it is all right to bus to achieve balance in schools; 26.6% believe organized sports should be de-emphasized; 35.9% believe in the regulation of student publications;

25.1% say a college has the right to ban speakers

And 72.6% of those surveyed considered it essential or very important to become an authority in their field; 61.8% consider it equally important to raise a family; and 65.5% want to help others who are in difficulty.

\* \* \* \* \*

We found the following "Mining Engineer's Song" in our files and if anybody can give us a clue as to its origin, we'd appreciate it. Our copy is an old mimeograph reproduction.

There stands a mining engineer with a  
rough and ready crew,  
There's not a thing on earth that he's  
afraid to do,  
If you want a bridge to Jupiter or a ten foot  
shaft to Hell,  
Just ask a mining engineer and we will do  
it well.

With dandruff in his whiskers and dirt  
behind his ears,  
With biscuit in his duffel bag that ain't  
been touched in years,  
So with his belly empty, the damn fool  
knows no fear,  
He's a shooting, fighting, dynamiting,  
mining engineer.

Oh! if I had a daughter, sir, I'd deck her  
out in green,  
And send her to the Aggies to coach their  
football team,  
But if I had a son, sir, I'll tell you what he'd  
do,  
He'd yell "To hell with the Aggies" just like  
his daddy used to do.

—Editor

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Cover: Miners versus New Mexico  
Highlands, February 22. Miners swept the  
four-game series. (Photo by Russell Banks)

Back Cover: Special Events Center, photo  
taken by remote control from catwalk  
about 50 feet above court, looking toward  
the northeast. UT El Paso versus the  
University of Nevada-Las Vegas, February  
24. (Photo by Russell Banks)

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A great American philosopher and wordsmith named Lawrence Peter Berra once said, "You can't think and hit at the same time," and for Berra, best known as Yogi, it was a point. There is proof to the contrary, however, in UT El Paso's own ranks: a new young baseball coach named Larry McFarlin who can hit—and think.

McFarlin played baseball here 1964-67 and you will find his name listed 14 times in the baseball records and stats published annually by Intercollegiate Athletics. To take 1965 alone, a year in which there were but 25 games played (compared to 57 this season), McFarlin led the Miners in most at-bats (87), most hits (32), most doubles (7), most triples (2), most home runs (4), most walks (15), most RBIs (21) and he tied with two other players in most stolen bases (2). He hit .368 that year and it wasn't his best year. In 1967 he hit .386, including 14 doubles, 10 home runs and 48 RBIs in 38 games. He also led the team in strikeouts (29), but when you are hitting a lot you strike out a lot. The Miners' 25-12 record in 1967 remains the best the team has ever compiled.

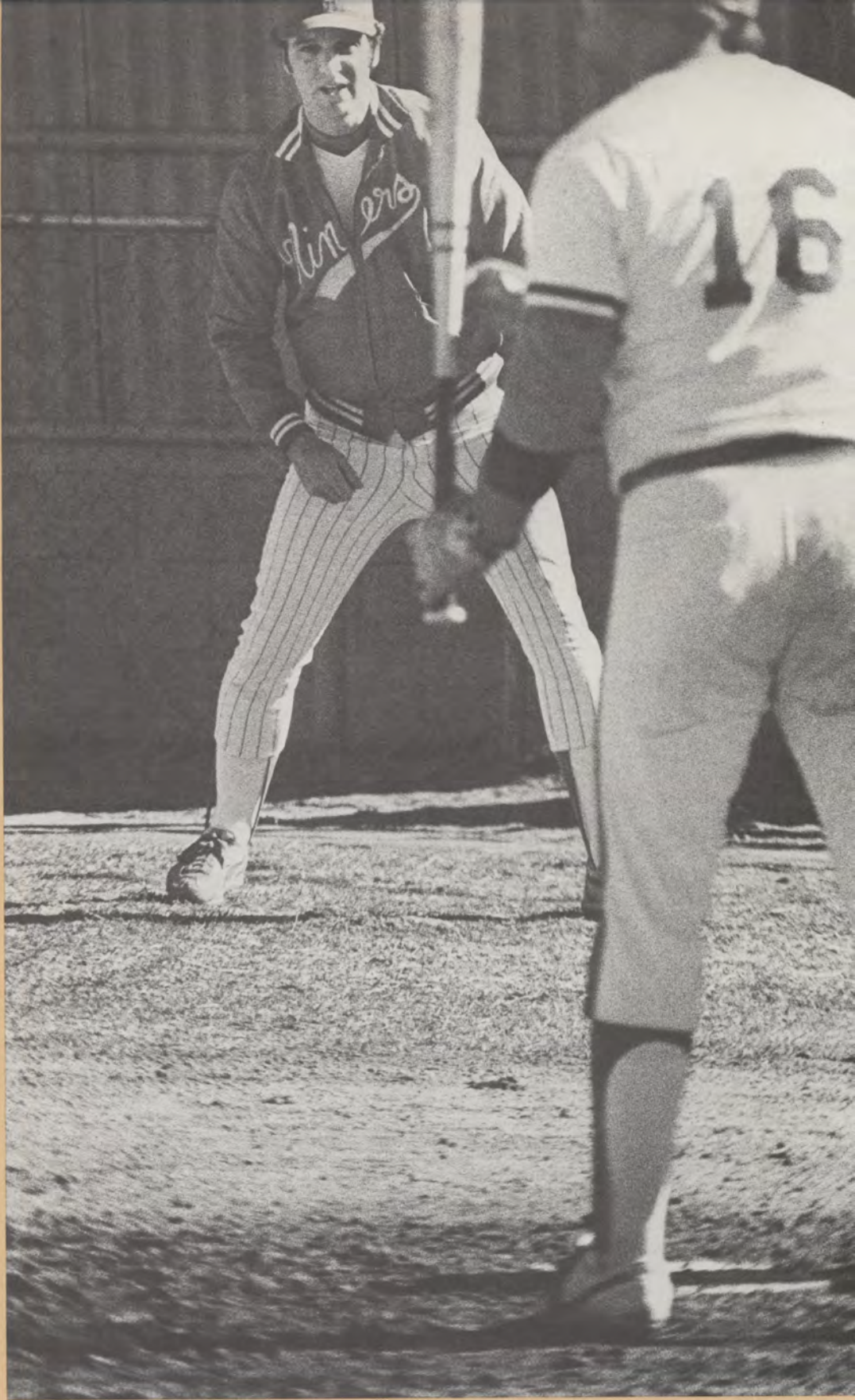
He left UT El Paso six hours shy of his bachelor's degree to play for the Idaho Falls Angels, a Class A farm club of the California Angels. He hit over .250 for them in 1968 and was named to the All-Star team of the Pioneer League that year but was released when the rookie season ended.

"I was one of the people who came in and went out," McFarlin said. "I was 22 years old and that had something to do with it; there were a lot of kids around 18 or so who went the same route as I did. I never regretted a minute of it, though, and would do it all over again. The experience made me appreciate the importance of my college education and I knew the experience would help me in coaching."

McFarlin returned to El Paso and in August, 1968, married Leona Rouse, a '67 graduate of UT El Paso who was teaching at Coronado High School. He completed his degree work at the University, graduating in 1969, worked at a lumberyard for a time, then went into teaching: first at Hart Elementary, then at Zach White in the Upper Valley—teaching science and coaching football and basketball—then in 1974 to MacArthur School in east El Paso where, in addition to his teaching duties, he began coaching the game he loves.

In 1978, the man who served as head baseball coach for UT El Paso from the origins of the game as an intercollegiate sport at the University in 1963, was winding up his last season. Andy Cohen coached 653 games for the University and won 300 of them despite cramped finances, few scholarships, no home field other than borrowed ones, and against such competition as Arizona and ASU, perennial powerhouses and repeated national champions.

Cohen, a born gentleman, is also a baseball man who, as Jim Bowden, Inter-



Coach Larry McFarlin:  
**PLAY BALL!**



*“The UTEP coaching  
job was my life’s  
ambition...”*

collegiate Athletics Director for UT El Paso, says, “can *accidentally* tell you things about the game that will improve your program.” Andy’s baseball career is of at least 55 years’ duration. He played the game for El Paso High, the University of Alabama, and professionally beginning in 1925 when he signed on with Waco in the old Texas League. In 1926 he moved up to the major leagues with John McGraw’s New York Giants, played for three years and another 15 in the minors. He coached and managed for an additional 17 years, including stints with the Boston Braves and Philadelphia Phillies.

“There just isn’t a better baseball man,” says Bowden, a long-time associate and friend of Cohen’s. “Andy built our program from the beginning, when baseball became an inter-collegiate sport in 1963, and he worked within very restricted guidelines. Finances were just not available, but he put his nose to the grindstone, didn’t complain, and did the best he could with what he had to work with. Considering this, he did an amazing job for us and we got the added benefit of having this really great man among us. The respect people have for Andy and the fine reputation he has nationally as a baseball figure, rubbed off on us. We owe him a debt we can never repay.”





Larry McFarlin's playing days at UT El Paso were, of course, under the coaching of Andy Cohen. "I played for Andy," he says, "and of course I am a member of the fan club...A truly fine gentleman and a great baseball man."

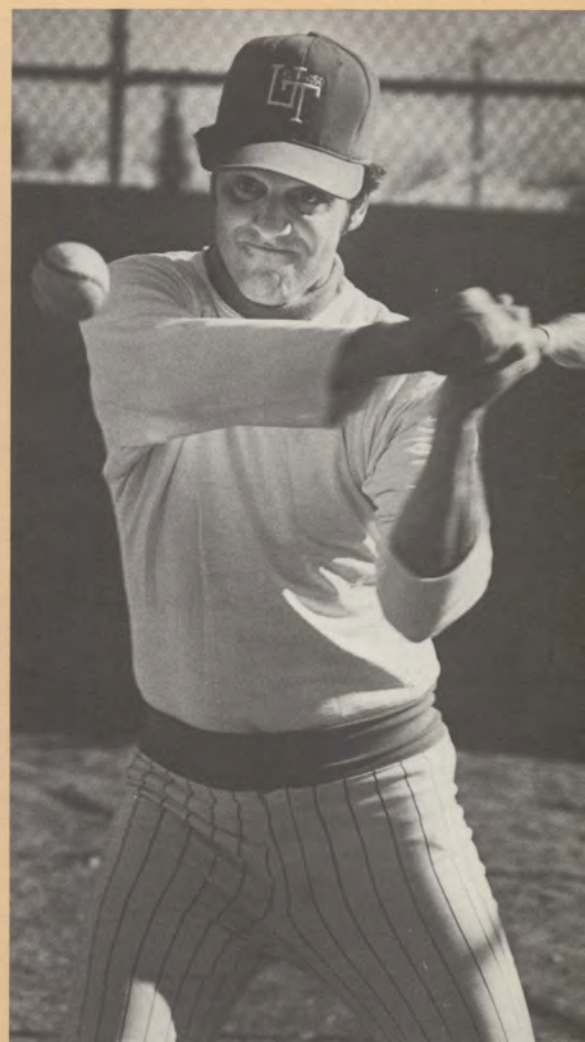
Bowden also knew McFarlin during the 1964-67 period when McFarlin was knocking the fences down. What neither of them could know was that the former would be hiring the latter to replace Andy Cohen in September, 1978.

"The UTEP coaching job was my life's ambition," McFarlin said recently over coffee at Hector's. "I've always been close to the University, always been interested in it, but when I learned that Andy was retiring and the job was opening up, I never really thought I'd have a chance at it."

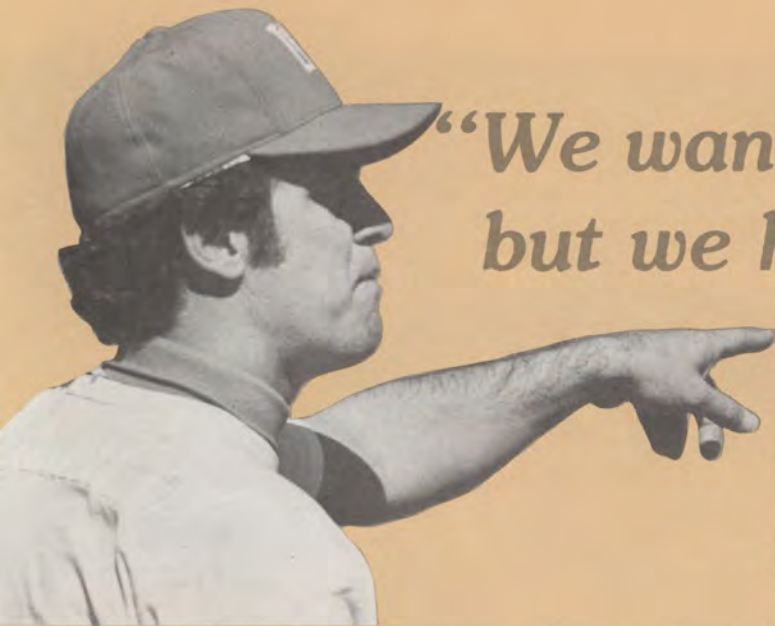
The competition was stiff, Bowden says. "We had a really fine pool of applications for the job. I knew Larry's background, knew him as a player here and for all the years he helped our stats crew in football and basketball. He was, and of course, still is completely devoted to the University. I put that fact together with his record as a player here and with the Angels organization, his fine record as a coach at MacArthur, and the type of man he is, and to me there wasn't any doubt that Larry was the



At left: McFarlin (hand raised) gives some pointers to his gathered Miner team. Above: Taking the oath: McFarlin (right) talks to shortstop Rick Altheide. Below: McFarlin can still hit, almost like he did when he set records with the Miners in 1964-67.







*"We want to play the game  
but we have a responsibility  
on the academic  
side that is  
more important."*

kind of person we wanted to take over the program."

After a period of frustrating spring rain which turned their field into a porridge, the Miners played baseball on Saturday, February 10, a double-header against the El Paso Gallos, semi-pros and a number of them former UT El Paso players. You couldn't have tailor-made a better day and the field was in fine shape for 16 innings of ball. The exhibition games were not publicized but a nice crowd came, including Andy and Syd Cohen. The Cohen brothers won't miss a good baseball game if they can help it.

The Miners didn't disappoint, winning game one 6-3 and coming from behind 2-0 and 4-2 to win the second 6-5. The pitching looked good, especially a couple of freshmen; Donnie Hunter and Frank Gonzalez, the Midland junior, K.C. Nix, and the big 6 foot 2 inch lefthander Nick Fiorillo of Long Branch, New Jersey, who looks a little like Mark Fydrich and reminds you of Warren Spahn on the mound. The Miners are strong on catchers too, with Rich Hildebrand, a senior, and Vic Calzada, a sophomore who made three spectacular rifle-shot throws to second base, catching an advancing runner each time.

The UT El Paso Physical Plant people have done superb work on the field, up on the Wiggins St. rise south of Bell Hall. The dugouts are new, clay and new soil was added to the infield, the pitcher's mound was raised a little, and outfield grass is coming in nicely.

"We'll play 57 games this year," McFarlin says, the home conference games at Dudley Field and the rest of the home games here. Our program is coming along. We've got fine personnel; everybody can hit, we're strong in a lot of departments and weak in very few. And we've got an advantage over a lot of university baseball clubs: we've got the weather. That's one reason why you see Oklahoma, Wichita State, Denver, Bradley, and Colorado State in our schedule. They want to come down here so they can play ball.

"The main thing is to make sure the kids who come to UT El Paso to play ball, get their education. All coaches say that but we all mean it. We want to play the game but we have a responsibility on the academic side that is more important. I can speak on that from experience."

McFarlin, while this story was being written, had two things on his mind which were scheduled to happen at about the same time: Larry's wife Lee was soon to have their first baby,\* and Larry was about due to make his debut as the Miners' head baseball coach.

The 33-man Miner baseball team (14 of them lettermen) opens the season February 22-23 with a four game series against New Mexico Highlands and closes out on May 12 with a double-header against the University of New Mexico in Albuquerque.

"I guess you could say the program boils down to three things: facilities, funds and interest. We've had great cooperation from Dr. Templeton and Jim Bowden; the facili-

ties are good and getting better, and we have funds to do some recruiting. As to the interest in baseball, I think it is here—the support given the Diablos is an example of the interest. For our program at UT El Paso, we'll have to generate the interest. Our kids talk up the program, we have our boosters, and it'll be uphill for a while but one thing we can do to get the interest is to win. We're working on that too."

Our estimable philosopher Yogi Berra put it this way: "If the people don't want to come out to the ballpark, nobody's going to stop 'em."

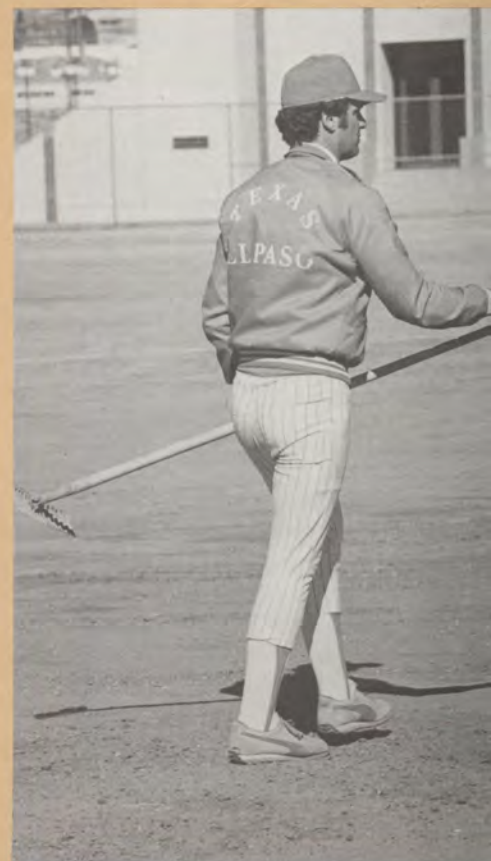
But on the other hand, if the people want to, nobody's going to stop 'em either. □

—DLW

*\*As this article was completed, the coach called: a baby girl, named Nicole Sue, born on Valentine's Day, mother and daughter doing fine.*

#### Miner-Baseball WAC Schedule

April 13	San Diego State University	DH	Dudley	noon
April 14	San Diego State University	DH	Dudley	noon
April 20	New Mexico University	DH	Dudley	noon
April 21	New Mexico University	DH	Dudley	noon
April 27	San Diego State University	DH	in S.D.	5 p.m.
April 28	San Diego State University	DH	in S.D.	5 p.m.
May 11	New Mexico University	DH	Albuq.	—
May 12	New Mexico University	DH	Albuq.	—





**NOVA:** Dr. Templeton, we have experienced a decrease in enrollment this spring: will that have an effect on our operational funding from the Legislature now in session?

**ABT:** It certainly will. We have had enrollment decreases in both the fall, 1978, and spring, 1979, semesters—about a 1.7 per cent decrease this spring. Now, according to the rules of the game, the present bill that was written by the Legislative Budget Board will be adjusted to take care of enrollment increases and decreases, in our case the decreases. What it will mean to us in precise terms I do not know as yet but sustained enrollment decline will cause serious monetary difficulties for any university operating under a 'formula' system such as those in Texas.

**NOVA:** For the benefit of those in our audience who do not understand what an enrollment decline does under the formula funding system, can you explain?

**ABT:** It simply takes away monies we would ordinarily have to operate the University. It takes away from faculty salaries, from the Library, from departmental operating expenses, educational and general administrative expenses, and so on. These items are tied directly to the formula system that is based on enrollment. In other words, we will potentially face the same type of problems we faced in 1972-73 if enrollment continues to decline.

**NOVA:** The 1972 fall enrollment drop was nearly 1,000 students and last fall we dropped less than 100...

**ABT:** Yes, we are not yet in the 1972 predicament. Then we were not only at the bottom of the state in faculty salaries, we had to lay off a large number of faculty, restrict spending, restrict travel money, and so on.

**NOVA:** Our decrease of 1.7 per cent this spring coincides with a national enrollment decrease, doesn't it?

**ABT:** Yes, that is true. In fact, our decline of last fall—about a half of a per cent—was just about the nationwide average.

**NOVA:** Does this situation create a scramble for students among the institutions that operate under the formula system?

**ABT:** There has always been a scramble for students. Right here in El Paso, the Community College spends a tremendous amount of money on advertising and public relations, selling their school through the mass media to the students and potential students of El Paso County. On top of that there are recruiters here from Harvard, Berkeley, Stanford, nearly everywhere else, trying to recruit the best students out of El Paso.

**NOVA:** Is there anything wrong with this system?

**ABT:** It's a free market. You and I can't

# A Talk With Dr. T.

control it, this faculty can't control it, the Legislature can't control it. What we have to do is to come to grips with it.

**NOVA:** Now a question or two about your address to the general faculty last September. Do you see any difference since you made that address on the matter of the 'taxpayer's revolt' and its effects on higher education?

**ABT:** None at all. Just look at the number of bond issues that are being defeated all over this state and across the country. Look at all the state legislatures and the federal government—people in roles of governmental leadership are consumed with



trying to cut back tax dollars. The people are demanding this and they will continue to demand it. I mentioned in my address that public education, including higher education in public institutions such as ours, is no longer separated in the public mind from any other social service. We are expected to compete with these other social services, by the same set of rules, and be accountable.

**NOVA:** How do you define 'accountability' in this context?

**ABT:** Accountable for the dollars the public gives us. Taxpayers are insisting that we be accountable for the way we spend their money. It is not simply a matter of asking us to spend less, but to spend well and to be able to explain satisfactorily how we are spending it.

**NOVA:** I remember you saying that public education is now being considered a right whereas once it was considered a privilege.

**ABT:** I carried it a step or two further than that: I believe that public education *through the undergraduate level* is considered a right and I believe the public considers the baccalaureate degree a standard expectation, much in the same way the high school diploma once was so considered.

**NOVA:** What did you mean in your address in saying that we no longer write our own script?

**ABT:** I mean that there once was a time when we were more or less handed a blank check and told to go ahead and spend it the best way we saw fit. Now we are being scrutinized by society, our goals are being defined for us, the expectations placed upon us are high and getting higher, we must be accountable for the funds given to us and how they are used. I don't mean to say that we are dancing on the end of a string that somebody is manipulating, but society in general is very concerned about what we in higher education are doing, determined that we will do it better and make our services available to more people.

**NOVA:** Do you think this phenomenon is bad for us?

**ABT:** No, I don't. I think we should always have been accountable, always responsive to the public, always careful with the tax dollar. I don't think this is asking too much of us.

**NOVA:** It is customary to ask you this: How do you assess the state of the University today?

**ABT:** Very healthy, by and large. We have our problems, including some management problems related to our growth. These can be solved. We need to stimulate the academic people to exercise some imagination in curriculum development, we need to do a great number of things all large and growing universities are faced with. But looking at the big picture, I'd say the University is very healthy today and will remain healthy if we take good care of ourselves.

**NOVA:** Thank you very much for your time.

**ABT:** I'm surprised you didn't ask about my retirement plans.

**NOVA:** Well, now that you mention it.... □



# Looking Forward, Backward

by Dale L. Walker

Toward the turn of the century in Leipzig, the old city of the old German state of Saxony where Martin Luther declared his ideas of Reformation in 1519, a scholar named Otto Gradenwitz worked among ancient Latin documents. Time, weather and worms had all but destroyed some of the precious manuscripts but it was Gradenwitz's duty, as a paleographer, to decipher and interpret as much as he could. Words in which the last several characters were obscured or missing posed no great obstacle: a Latin dictionary provided the clues to what had probably been written. But words in which the *first* several characters had been lost was another matter entirely. Gradenwitz's command of Latin was peerless but here was an almost insuperable problem, and his scholarly mind, while groping for the words that would fill the immediate need, also ranged to the larger issue. An ordinary Latin dictionary was of little use in the problem, but an *inverse* dictionary would be of inestimable value. He compiled one and it was published in 1904.

Gradenwitz's *Laterculi vocum latinorum Voces latinas et a fronte et a tergo ordinandas* ("Indices of Latin Words, the words put in both frontward and backward order"—roughly) was the first inverse dictionary and so many new uses for such a work have been identified that similar compilations exist for such languages as German, French, Greek, old Polish, Russian, Rumanian, and Spanish.

Dr. William M. Russell, professor of modern languages at UT El Paso, is an authority on inverse (or reverse) lexicography and while the subject may appear arcane to the layman, a few minutes' listening to Dr. Russell's easy discourse, in particular about the Spanish language, his specialty, will erase all doubts as to the value of such works.

Dr. Russell is a native of Eules (Tarrant County), Texas. He received his B.A. in 1948 at Birmingham Southern College, Alabama; his M.A. and Ph.D. at the University of North Carolina, Chapel Hill. Except for the period 1962-64, when he taught at the University of Arkansas, he has been a mainstay of UT El Paso's Department of Modern Languages, teaching a stunning variety of courses, prin-

cipally in Spanish language and literature: Spanish Morphology, Old Spanish Readings, Lope de Vega, Renaissance and Baroque Poetry of Spain, Calderón de la Barca, Indigenous Literature of Latin America, Survey of Mexican Literature, Golden Age Drama, 19th Century Spanish Literature, Studies in Galdós, Studies in the Spanish Novel, and Studies in Spanish Theater, to name a few of them.

Dr. Ray Past, chairman of the UT El Paso Department of Linguistics, has not only known Dr. Russell for nearly 25 years, but took two of the professor's courses. "I have never seen his superior as a teacher in 30-odd years' experience in several universities," Dr. Past says. "Nor have I seen anyone close to equalling the rapport he establishes with his students. I believe it matter-of-fact to say they love him."

And Dr. Joseph R. Smiley, twice president of UT El Paso and currently professor of French in the Modern Languages Department of the University, agrees wholeheartedly: "Bill Russell is a superb teacher, deeply respected and admired by his students for the qualities which have also endeared him to his colleagues: serious scholarship, dedication to learning and teaching, patience, unvarying cheerfulness, and admirable intellectual hospitality."

Dr. Russell's conscientious approach to his profession and his renown as a teacher (which won for him the prestigious AMOCO Teaching Excellence Award for 1977-78)—in particular, as a teacher of Spanish—have contributed greatly to his scholarly pursuits, one of which has occupied him for over 10 years. This project is a *usable* inverse dictionary of Spanish, a book that can be of service to teachers of Spanish, poets writing in the language, and students of Spanish in general.

To clarify how such a dictionary works, Dr. Russell explains that in his *diccionario inverso* the words are printed in the usual way, so that they may be easily read, but alphabetized from the last letter toward the first, and ordinarily arranged so that the right margin is justified instead of the left.

Take, for example, this sentence: "These words, once arranged, are printed in the usual way, but ordinarily right justified rather than left." If the words making up

that sentence are alphabetized inversely, they would appear as follows:

arranged  
justified  
printed  
once  
the  
are  
these  
usual  
than  
in  
rather  
words  
left  
right  
but  
way  
ordinarily

A group of common Spanish words, let's say words ending in *-al*, would be arranged thusly:

al  
ideal  
real  
especial  
oficial  
material  
mal  
animal  
principal  
general  
moral  
natural  
tal  
capital  
cristal  
total  
mortal  
cual  
igual

and so on.

At this point the whole idea is intriguing, but what use is it?

"Keep in mind," Dr. Russell says, "that Spanish is a highly *inflected* language—in fact, inflection is all-important in Spanish. This means changes in word *endings* and if you need to refer to word endings, as Spanish teachers do, and as students of Spanish must, what could be more helpful than a dictionary in which the words are arranged according to their endings?"

For instance? "Take Spanish verbs," he



says. "These will be grouped together in an inverse dictionary since they all end in either -ar, -er, or -ir. Any student or teacher of Spanish knows how difficult Spanish verb forms can be: all have significant spelling changes in their various forms."

An example? "Take the rather large group of Spanish verbs classified as 'orthographic changing'. In this type of verb, changes are often necessary to provide a uniformity in pronunciation. With verbs whose infinitives end in -car and -gar, you change the c and g to -qu and -gu respectively before e. *Toco* (I touch), from the infinitive *tocar* (to touch), becomes *toqué* (I touched); *pago* (I pay), from the infinitive *pagar* (to pay), becomes *pagué* (I paid)."

Ramsey's *Spanish Grammar*, Dr. Russell says, lists 12 additional infinitive types which require orthographic changes: -guar, -ger, -guir, -quir, and -cer, are examples.

With a *diccionario inverso*, he says, typical orthographic changing verbs can easily be located and listed for teaching the rules that govern them.

That's not all, of course. "Accenting, pluralizing, and gender are other problem areas in Spanish which can be aided by an inverse dictionary," Dr. Russell continues. "In accenting, the rule is that words having no written accent and ending in a vowel, n, or s, will be stressed on the next to last syllable. Unaccented words ending in a consonant other than n or s take the stress on the last syllable. It is easy to find ex-

amples of this in an inverse dictionary."

Pluralizing Spanish nouns is another area governed by a great number of rules: In the well-known *Spanish Grammar* by Marathon Montrose Ramsey, you will find the rule on pluralizing stating that nouns of more than one syllable which end in stressed -e, -o, or -u, and the monosyllables *pie* (foot) and *té* (tea) are pluralized by adding an s. *El canapé* (the couch) becomes *los canapés*; *el tisú* (the tissue) becomes *los tisús* and so on. Nouns which end in a stressed -a, -i, or a stressed diphthong of which the last letter is -y, takes an -es to become plural. *El rubí* (the ruby) becomes *los rubíes*; *el rey* (the king) becomes *los reyes*.

"Such rules as these deal with the word endings, once again," Dr. Russell says, "and examples can be easily taken from an inverse dictionary, not so easily from an ordinary one."

On the matter of gender: "In a recent issue of *Hispania*," (a journal devoted to the teaching of Spanish and Portuguese), says Dr. Russell, "there is an article by Prof. John Bergen of the University of New Mexico which presents a simplified approach to teaching the gender of Spanish nouns. Prof. Bergen says that gender exemplifies the most difficult type of problem for a second language learner. In his article he presents a table which fills almost a page for determining the gender of Spanish nouns. Of the 10 rules he provides, all but

two are based upon the terminal letter or letters of the noun."

For instance? "Nouns ending in the following letter or letters: -a, -d, -z, -ion, -umbre, -ie, and unstressed -is, are feminine. Any terminal letter or letters other than those given for the feminine, especially -l, -o, -n, -e, -r, -s, are masculine.

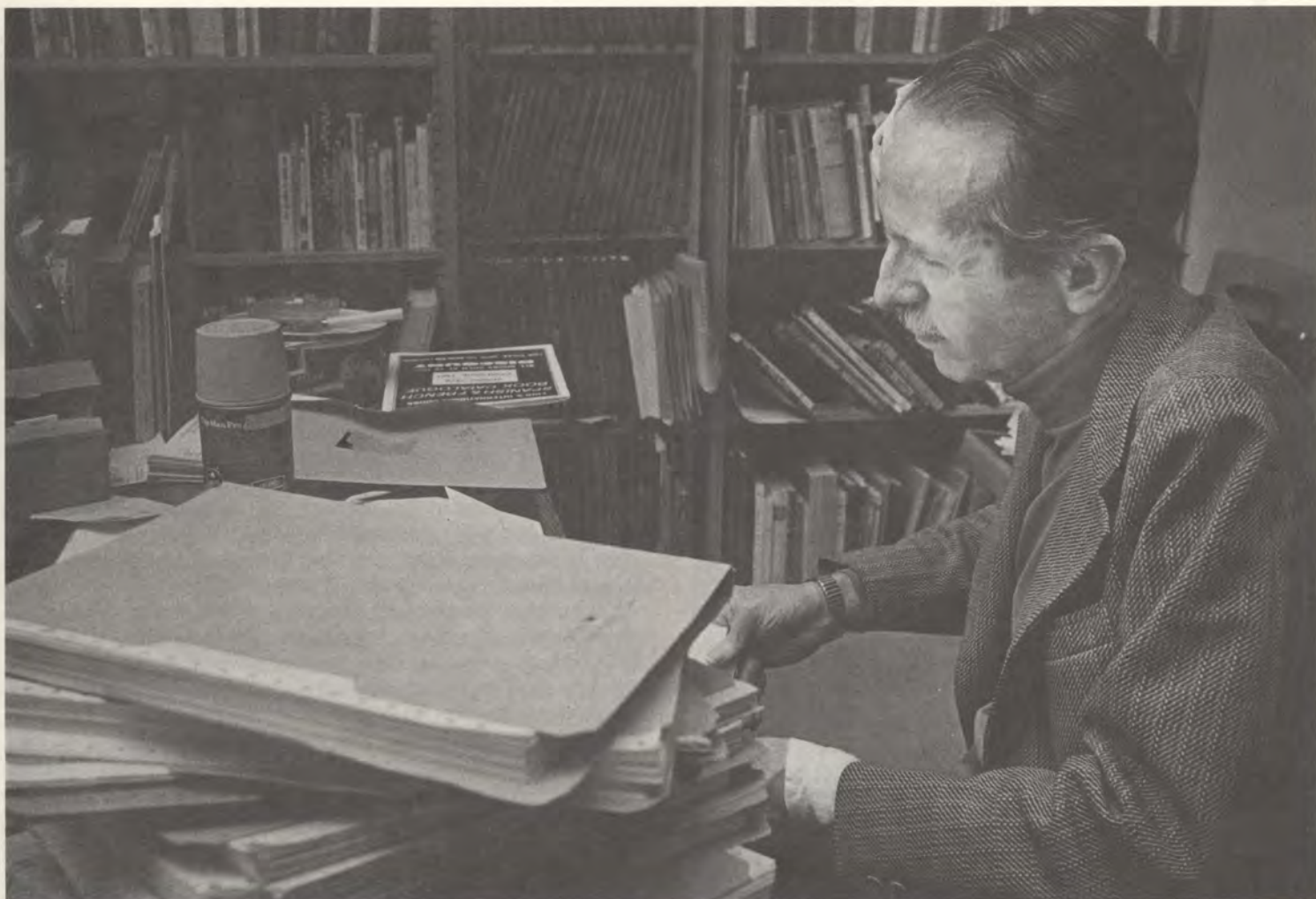
"An inverse dictionary, since it places all words with like endings together, would provide many examples of this and would aid the teacher in preparing drills to reinforce these rules," Dr. Russell says.

There is even the value of a *diccionario inverso* as a rhyming dictionary and Dr. Russell recalls a colleague who was composing a poem in Spanish and searching for a word to rhyme with "Verona," the city in Italy in Shakespeare's play about the Two Gentlemen. Using a small list of common Spanish words in inverse order, the colleague found the word he needed—*persona*!

"There is a much closer correspondence between sound and spelling in Spanish than in English," Dr. Russell explains, and those seeking to write poetry that rhymes can easily find their words in an inverse dictionary—some they might never have landed on, even if their command of Spanish is good.

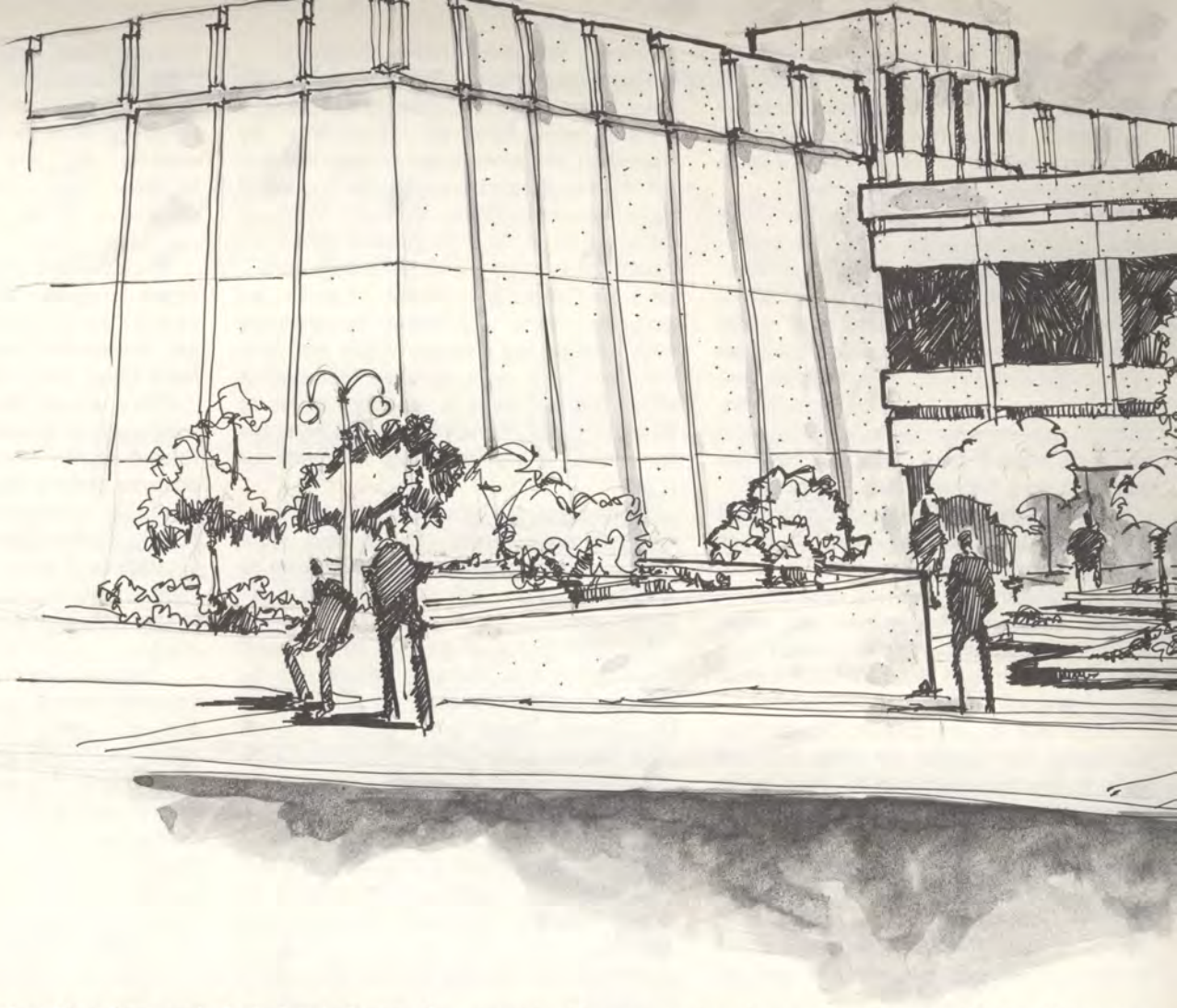
And, there is a curiosity-sating factor to consider. How many Spanish words can you recall ending with the letter j? *Reloj*

(to page 17)



Dr. William M. Russell in his book-crammed office; the computer printouts are in folders in the foreground.





You can be comfortable talking with Jack Smith, Dean of UT El Paso's College of Engineering. His office in Room 230 of the Engineering-Science Center was decorated by his wife, Charlene, and there are prints on the wall by John Hogan of Indians and Butch Cassidy and his Hole-in-the-Wall gang, a Navajo rug and a Loren Jantzen Indian print. There is also a framed cartoon of a golfer, putter in hand, standing with his forehead against a tree. "Frustration" is the title under the picture.

If Dean Smith is frustrated about anything, even his golf game, you'd never know it. He tends to take things in stride, his smile is genuine, even his enthusiasm for his College and his profession is kept under control—but is clearly evident as he answers each question as if he is glad you asked it.

"Our enrollment is strong," he says. "We had a downturn in 1972-73 like everybody else but the increase has been steady ever since and we're double now what we were in that period. We have something like 1,375 undergraduate and 75 graduate students enrolled. Electrical Engineering accounts for the largest number, well over 500. The other departments—Mechanical and Industrial, and Civil, account for about 300 students each while the smallest, Metallurgical, is showing a healthy growth."

A sign of the strength of his College, Dean Smith says with pride, is the fact that all degree programs (with the exception of the newest, Industrial Engineering) are fully accredited by the Engineer's Council for Professional Development. The ECPD's membership is made up of representatives from engineering and engineering-related societies. Industrial will be undergoing ECPD inspection soon, he says, and he has no doubt that it will pass muster.

"Accreditation is very important. It's important to the students because a program recognized by the engineering societies is recognized by corporate recruiters and other universities. And, of course, it is important to our faculty for the prestige it carries with it."

There has nearly always been a feeling that engineers get jobs when other professionals are still standing in line. True? "I'd say job

opportunities per engineering graduate are still better than most professions," Dean Smith says. "We have an active placement office and experience no problems in placing our graduates. There is an increasing demand for engineers across the board."

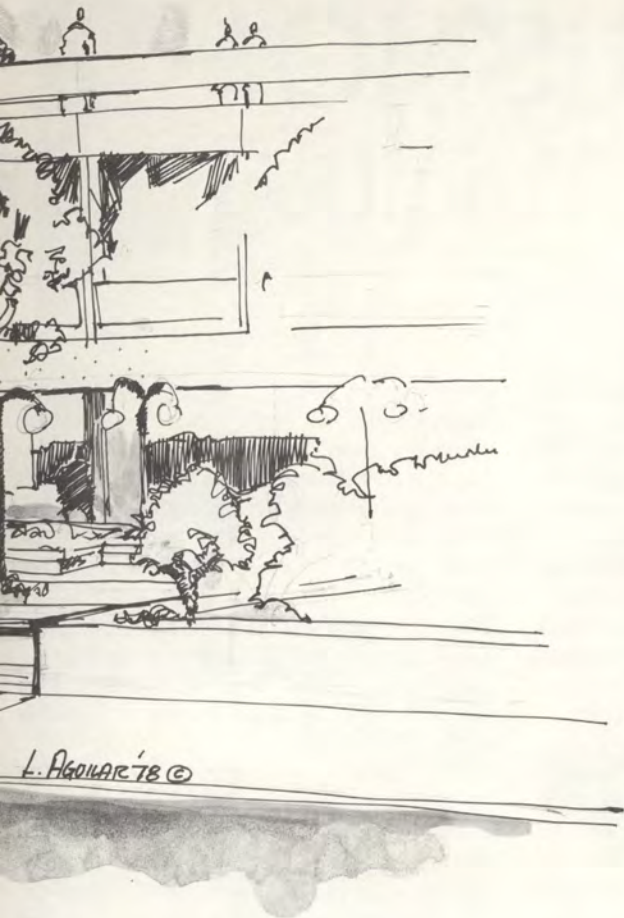
Jack Smith is a native of Morristown, N.J., and recipient of B.S., M.S., and Ph.D. degrees in electrical engineering from the University of Arizona. A member of the UT El Paso faculty since 1964, he has served on the UA faculty in electrical engineering, worked for Sandia Corporation in Albuquerque, General Electric in Utica, N.Y., and as consultant to Kaiser Electronics, the Frederick Research Corp., Batelle Laboratories, and the Atmospheric Sciences Laboratory at White Sands' Army Research Office.

Answering graciously the umbrella-type question an engineering ignoramus asks a professional engineer, Dean Smith says the engineer of today has a role in whatever solutions science presents to pressing societal problems. "We are asked to apply the science," he says. "Let's say for example that solar energy is the accepted answer to our energy problems. It would take engineering to implement this for large scale use. It would be the engineer who would need to concentrate on the problem of how to supply 200 million Americans with the solar hardware and systems."

The basic education provided the engineering student has not changed greatly, the Dean says, but the problems handed engineers have changed, responding now more than ever to societal needs. "There was a time," he says, "when engineers were concerned with road building. Now the concern is not only the road but what the road produces in the way of pollution and transportation matters. Engineers today do get a great deal of emphasis on energy problems, pollution abatement, and transportation. You might say these reflect the concerns of society in general and it is something engineers have to be aware of, just as we must be familiar with the growing number and variety of governmental regulations."

Changes in engineering as taught at UT El Paso, Dean Smith reflects, involve the present-day trend to return to a design-oriented program, rather than one with an emphasis on theory and





# Engineering & Dean Jack Smith

analysis. "There are so many basic problems that require new solutions," he says, "that design is very important to us these days. We have to look to what the public requires now and in the future and respond to these needs. This is not to say we underplay science and theory, it is just a matter of emphasis."

Looking at the physical surroundings for engineering students at UT El Paso—the \$12.5 million Engineering-Science complex, which officially opened in the fall, 1976—Dean Smith comments: "We have over 100,000 square feet of space here and the beauty of it is that our laboratory facilities were designed for specific purposes. The ESC brought all our departments of engineering into one area and this gives us a chance for more inter-departmental cooperation and interdisciplinary work."

While space is not yet a problem, he says, there is a perpetual need to keep up with equipment needs. "A new generation of equipment evolves every five to seven years. We have better equipment than most undergraduate programs have, but it is never really adequate...we never really catch up."

Of several new developments in the College of Engineering, the Dean speaks with pride of the proposed doctoral-level program in environmental science and engineering. This program emphasizes environmental studies in arid and semi-arid regions, is interdisciplinary in nature, and will, wherever practical, stress industrial application.

"Our proposal on the doctorate, already approved by our own administration, was presented to the Board of Regents on February 9 and is now in the hands of the Coordinating Board. We expect to hear from them later this spring."

Other advancements Dean Smith mentions are the College's computer science work, solar research, planning activities in water resource and water treatment, continuing work in border pollution problems and participation in upper atmospheric measurements being done through balloon experiments sponsored and supported in the Atmospheric Sciences Laboratory. The UT El Paso College of Engineering designed some of the instrumentation and telemetry for the flights.

Another project, still in the planning and proposal stage, is work toward eventually offering a degree in chemical engineering.

"We have 38 faculty members in the four departments of the College," Dean Smith says, "and I think we have a very fine faculty. I am proud of the work they are doing here for our students."

Jack and Charlene Smith are parents of a daughter, now married and living in Austin; and two sons, the younger at Coronado High School. □



Dean Jack Smith is an administrator but also a teacher and here conducts an electrical engineering class.



# CURANDERISMO: The Folk-Healer Tradition

by Nancy Hamilton

"My mother," said the woman, "had a lump just below her knee. It was infected and would not heal. She went to a doctor who said it was cancer and her leg would have to be cut off. She was very upset." After three months, the infection had spread. "My mother returned to the doctor who said now the leg would have to be cut off above the knee," continued the woman. "She did not want that to be done, so she went to a *curandera*. The *curandera* said she could draw the infection from my mother's body. She rubbed a salve on my mother's thigh, put a feather over it, and wrapped it in a bandage. Every week my mother went back and the *curandera* would put the salve and the feather on her leg, each time moving it down a little until it came to the ankle." The mother's toes began to swell, turned blue and black; one evening, when she felt excruciating pain, suddenly two toes dropped off with what seemed like an explosion. The next day, the *curandera* declared her healed.

"That was many years ago and my mother is still living," said the daughter. "She has two missing toes as proof that the *curandera* cured her of what the doctor said was cancer."

This story and other similar ones intrigued Dr. Jimmy Walker, associate professor of Educational Psychology and Guidance, when in 1975 he took part in a bilingual cancer education program for adults. Dr. Larry Hamilton, also of the College of Education faculty, headed Proyecto CEPA, which was funded by the Moody Foundation of Galveston and the Chamizal Institute Foundation. Its purpose was to educate border citizens about cancer detection and treatment. The most effective way of reaching the people with information was found to be small group discussion, where the adults involved could speak freely about their own experiences with medical problems. Dr. Walker was involved in training volunteers to lead the group discussions.

"People in these groups often described experiences in which they went to a medical doctor for help and had an unhappy encounter, a feeling that the doctor was not really interested in them," said Dr. Walker. "Then they would go to a folk healer, a *curandero*, and find help for their problems."

Fascinated by the accounts, Dr. Walker

began research on *curanderos* and their methods of dealing with people. He discovered that in the border culture, while there are educated persons who regard folk healers as old-fashioned or tied to superstitions, there are others who seek out *curanderos* for help. Social workers and counselors unfamiliar with the folk traditions of *curanderos* may scoff at them for a while, says Dr. Walker, but after working with people who respect the folk healers, the professionals may change their attitudes.

Under a University Research Institute grant, last year Dr. Walker and Dr. Enrique Reyes completed a study of "Emotional Aspects of Curanderismo." They presented a program on it at last October's state convention of the Texas Personnel and Guidance Association which plans to publish the study.

Dr. Reyes, now a member of the UT El Paso College of Education faculty, was with the Southwest Community Mental Health Center in Las Cruces at the time they conducted the study. He also had participated in the Proyecto CEPA work while completing his doctorate. Assisting them on the *curandero* project was Michelle Krieger, a graduate student, who is now a marketing administrator for Mountain Bell.

After interviewing three *curanderos* and 20 people of various ages and backgrounds who had had experiences with *curanderos*, the researchers found that many Mexican Americans in the United States adhere to the traditional folk medicine beliefs, and that even those with university education and professional training are hesitant to denounce *curanderismo*. An ambivalent student, for example, might say, "I don't believe in *curanderismo*—but I don't think it hurts to try it." No outright scoffers were found among those interviewed who were from the background that accepts folk healing arts.

A nurse told the researchers she was at one time against *curanderismo*, but after three years of working at a clinic with people who had faith in it, she had changed her mind. Social workers and counselors who were ambivalent had clients who had been to *curanderos* and regarded them in a positive way. One social worker with a Master's degree had sought help from a *curandero* for a personal problem.

"A lot of the cures used by *curanderos*

are common sense," observes Dr. Walker. "Currently there are trends in medicine toward a more holistic view, toward looking more at the emotional factors in health along with the physical. Research indicates that if a doctor is a warm person, the patients tend to do better. The *curanderos* are very skilled at listening to the people who come to them and tend to do what most helping people do. They are warm, friendly, concerned about that individual. They know how to get a person to express his anxieties."

Various techniques are used to allay the client's fears, depending on the problem at hand. Psychologically, explains Dr. Walker, it is often helpful to be able to attribute one's emotional difficulties to an external source, thereby removing the guilt feeling from the individual. For example, a mother whose child manifests unacceptable behavior may be told by a physician that the child has minimal brain damage. The mother, who had feared the problem was somehow her fault in the manner of dealing with the child, is relieved to learn that she did not cause the problem. A *curandero*, confronted with this problem, might tell the mother the child has been bewitched by someone else. Either way, the mother can be freed of her guilt feeling.

When Drs. Walker and Reyes presented their study at the Personnel and Guidance convention, several school counselors asked them how to cope with problems peculiar to folk medicine, such as *mal de ojo*.

*Mal de ojo*, or evil eye, can be a complaint of small children whose symptoms may include high fever, loss of appetite, inability to sleep soundly, and perhaps a swelling on some part of the body. Folk remedies often call for use of an egg in these cases. An unbroken egg is passed over the face of the child, then is broken into a saucer and placed under the bed. If a white film forms over the egg, the evil spell was cast by a man; if an eye appears in the egg, the culprit was a woman.

*Curanderos* are supposed to be able to combat *mal de ojo* and various other maladies associated with bewitching, as well as treating personal problems and more standard illnesses.

In order to learn more about how these healers operate, the UT El Paso researchers visited three of them—two





Drs. Jimmy Walker (standing) and Enrique Reyes in a Juárez market specializing in medicinal herbs.

women in El Paso and a man in Ciudad Juárez.

The two women in El Paso operated in a manner somewhat different from the traditional *curandero*. For one thing, they advertise on handbills which make extravagant claims in Spanish for their abilities to help people with a number of problems. They are under the aegis of religious affiliation, probably to avoid charges of fortune telling or practicing medicine without a license, but their work is not so much medical as psychological, the researchers found.

In their consulting rooms, the women displayed religious articles such as open Bibles, candles, crucifixes and pictures of saints. Their interviewing technique began by taking the hand of the client and making statements designed to draw out the visitor's innermost thoughts. "I can tell," the healer might say, "that there are times

when you feel that everyone is against you, that all the hard work you do is not appreciated. Sometimes you even think it might be better to make a change from what you are working at now." This type of generality was applied liberally by the *curanderas* who were interviewed in El Paso. After gleaning responses to several statements, the healer could zero in on the individual's problem very accurately.

The researchers found an old-style *curandero*, complete with herbal remedies, in Juárez. The man was not only willing to talk to them, but spent three hours showing them the tools of his trade and discussing his work.

"We had heard that *curanderismo* could not be openly practiced in Mexico," says Dr. Walker, "but this man indicated that he had no trouble with the police—in fact, many of them were his clients."

He showed various objects that he works with, such as a group of glasses filled with water and covered with pieces of glass. He could remove the glass and look into the water for inspiration as from a crystal ball. He told the researchers he works cooperatively with medical doctors; they refer patients to each other. He uses manipulation with his hands in some cases or prescribes herbal remedies. He was emphatic that marijuana is very harmful.

How does he know what to do for a particular patient? The *curandero* said he operates with a power that was given to him by God. It was not inherited and cannot be taught; only God can give it, he said. Through the inspiration that goes with the gift, he knows what treatment a client might need. In the case of a physical problem that he thinks can best be handled by a medical doctor, he advises the patient to seek medical help.

The traditional *curandero* does not set a fee on his services. He accepts gratuities but does not demand them. Another characteristic of his style of healing is that he has no rigid schedule. Midnight is as good a time as any to pay him a visit.

The attitude toward time, Drs. Walker and Reyes point out, was a factor in the Proyecto CEPA work in 1975. Researchers found that people who were accustomed to visiting *curanderos*, were intimidated by the system of clinics and medical offices that rely on appointments. When a patient did go to the trouble of making an appointment and showed up on time, he would most likely have to wait as long as two hours to see the doctor. What, then, was the advantage of making an appointment?

For professionals who work with people from the background that respects *curanderos*, the UT El Paso researchers recommended that it is important to understand their values and attitudes, especially how they believe one gets a problem—perhaps through bewitching—and how one gets rid of it, a process that may involve some kind of sorcery.

"I see a lot of *curanderos* playing the same role as a lot of counselors and psychologists," observes Dr. Reyes. "For a lot of their clients it is a matter of faith. Some of the rituals, such as the candles and pictures of saints on the wall, play the same role as our college diplomas. Once a client believes in the ability of the person he goes to for help, the placebo effect begins to work. The professional counselors should not dismiss folk healers lightly, because they can be very helpful to people. The *curandero* is an expert in his area. He knows how to relate to people and also offers a touch of the mystical about what he does. We have two aspects in our society: technology that we don't easily understand and the mysteries of groups such as the cults that are popular in many places. People are looking for something, and in many cases, the *curandero* can answer their needs." □



March 14, 1979, is a landmark date for the University of Texas at El Paso. At around 2 p.m. on that date, in room 212 of Old Geology, a young man named Gary L. Massingill will make a presentation on "The Geology of the Riley-Puertecito Area, Southeastern Colorado Plateau, Socorro County, New Mexico," and will be asked a number of sharp questions by a panel of geologists. The program, which is open to the public, is called a dissertation defense and upon successfully completing it, Massingill will become the first person in the University's 66-year history to be granted a doctorate—the degree of Doctor of Geological Sciences.

Gary Massingill is a native of Snyder, Texas, who earned his B.S. and M.S. degrees in geology at West Texas State University in Canyon, with nearly four years between the two for service as an officer in the Air Force, including a year in Korea. At WTSU, his major professor, Dr. Franklin W. Daugherty, suggested Massingill "look into" the new doctorate in geology being offered at UT El Paso—a degree program which only became official in April, 1974, by action of the Coordinating Board, Texas College and University System. Dr. Daugherty is a former student of Dr. W.N. McAnulty, professor of geology at UT El Paso since 1964 and former chairman of the department, and recommended Massingill for the program.

Entering the program in August, 1975, Massingill began his search for a good dissertation problem. "I discussed it with Dr. McAnulty and other people who suggested I get in touch with the New Mexico Bureau of Mines and Mineral Resources in Socorro. I had a good correspondence with the Bureau director, Frank Kottowski, and told him I was seeking some kind of problem that would involve uranium in addition to the general mapping responsibilities."

The area suggested to Massingill is in the vicinity of Riley, a New Mexico ghost town, and Puertecito, another tiny settlement, north of Magdalena on the north end of the Bear Mountains. It turned out to be precisely what Massingill wanted—an area that included an outcropping of rock containing coal. The presence of the marine fossil *ammonite* and help from the Bureau of Mines paleontologist, Dr. Stephen Hook, enabled Massingill to date the coal-bearing rocks as Cretaceous in age (85-95,000,000 years old). Above the Cretaceous rocks, in something called the Baca Formation of rocks in the younger Eocene period (37-53,000,000 years old), Massingill found the uranium occurrences he was seeking—a "promising potential" he says.

He began working in the Riley-Puertecito area in the summer of 1976 and completed the field work in December 1977—a total of 11 months in the field. In January, last year, he began writing his dissertation, now completed and running to 300 pages.

Massingill, since May, 1978, has been working for the Bureau of Mines and Mineral Resources in Socorro as a coal

geologist. "I am very fortunate," he says, "to be able to work with a team of professional people such as these. Anyone working in geology who wants to continue in research appreciates being able to work with the caliber of people we have here."

The Bureau plans to publish Massingill's dissertation after critically reviewing it and, in the meantime, the new doctoral candidate continues working in his dissertation area, mapping to the west of the Riley-Puertecito vicinity.

"As soon as the snow clears," he says, "I'll also undertake a post-doctoral assignment to map up near Gallup in the Pinehaven Quadrangle."

Massingill's long range plans are eventually to "try teaching," but, he says, "I need to continue to develop experience and I want to have some more industrial experience to widen my horizons. I also intend to continue research work and writing."

He was married last May and his wife, Linda Marie, employed in the Energy Institute in Socorro, has completed her classwork at UT El Paso toward a master of science degree in geological sciences.

Of the University's doctoral program, Massingill says: "For a program that is still in the beginning stages, I believe it is going well. In fact, in a very few years I think UTEP's doctoral program will be among the best and parallel to any being offered. I'd like to see the University expand its

computer capabilities, of course, and there are the usual pains that come with a program that is on its way up, but all in all, I am very happy with the program."

He credits Dr. McAnulty for being the main person behind the program and says "Dr. McAnulty has done more for geology at UT El Paso than anybody in my experience at the University and he deserves every commendation he gets."

Massingill adds that Dr. Philip C. Goodell "let me burden him with my problems and I am very much indebted to him for being receptive to me." Dr. Goodell, who received his M.S. and Ph.D. at Harvard, joined the University's geology faculty in 1975.

Other members of the dissertation committee, in addition to Drs. McAnulty and Goodell, are Dr. Robert H. Schmidt and Dr. Charles Stuart of the UT El Paso Department of Geological Sciences, and Dr. Charles Chapin, senior geologist with the Bureau of Mines and Mineral Resources in Socorro, N.M.

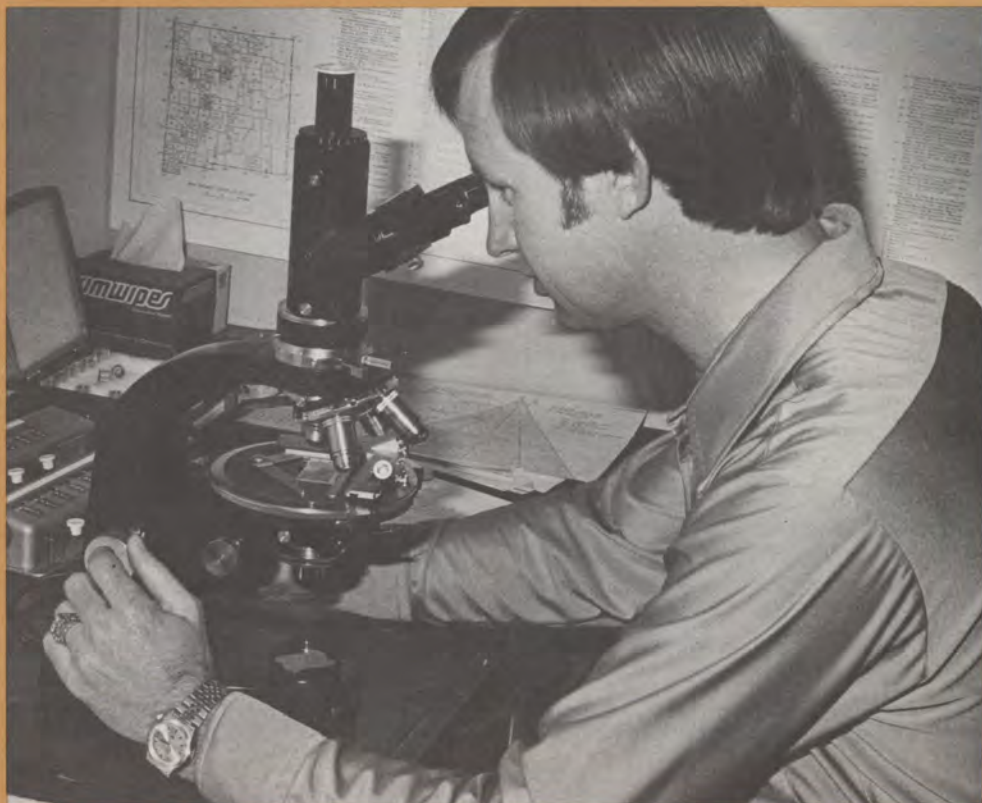
Upon successfully completing his oral dissertation defense, Massingill will be awarded his doctorate—officially at Commencement on May 12, but unofficially after March 14.

In any case, Massingill carries with him the added distinction of being the first person to be awarded a doctorate at The University of Texas at El Paso.

Congratulations, Dr. Gary Massingill! □

## UT El Paso's First Doctor:

# Meet Gary Massingill



Dr. Massingill works at the petrographic microscope at the New Mexico Bureau of Mines and Mineral Resources in Socorro. The microscope enables the scientist to identify individual mineral grains in a thin (3 microns thick) section of rock through which plain and polarized light is projected. (Photo by Vina Windes)





# Alumnotes by Sue Wimberly

NOVA has received a tremendous number of news items in response to the up-date information forms mailed out for 1978 Homecoming. Not all the items could be included in this issue, so stay with us for next time. And we hope to hear more from you during the year.

**Dr. Wilson H. Elkins**, president of Texas Western College from 1949 to 1952, has been selected the Distinguished Alumnus of Schreiner College in Kerrville, Texas, and was honored there at a banquet in March.

## CLASSES OF 1928-1939:

**Fred J. Brooks** (B.S. '28), who retired as a hydraulic engineer with International Boundary and Water Commission, makes his home in Portland, Texas.

**Rafael Rangel** (B.S. '28), who lives in Parral, Chihuahua, Mexico, is presently studying the progress of new oil discoveries in the southeastern section of Mexico.

NOVA's good friend **Norberto de la Rosa Salgado** (B.S. '32), mining engineer in Mexico City, sent his annual Christmas and New Year's best wishes to the University and its alumni.

**Ed. S. Light** (B.A. '37) and wife **Kay** (B.A. '62) make their home in El Paso where he is marketing manager with Concord Insurance Agencies, and she is owner of Stay & Play Day Care Center, Inc.

**Marshall T. Finley** (B.A. '37) has been appointed El Paso County treasurer. He is an insurance broker and consultant for Erisa Planning Company.

**Louise Maxon Rea** (B.A. '38) was honored by co-workers and friends in "A Tribute to Louise," upon her recent retirement as Women's Editor of the El Paso Times.

**Mary Antone Lee** (B.A. '38; M.A. '50) is retired from teaching in the El Paso School District. She and her husband Jack make their home in El Paso.

**Johnell Crimen** (B.A. '38) is owner and director of the Crimen School of Arts and Crafts in El Paso.

**Glynn Sparks Elliott** (B.A. '38) makes her home in Portland, Oregon, where she is a floral designer. She has travelled extensively the past two years on movie location with her son Sam Elliott, television and movie actor.

**Patty Mae Chinn McKnight** (B.A. '38) and her husband Lee make their home in San Leandro, California.

## CLASSES OF 1946-49:

**Genevieve** (B.A. '46; M.Ed. '49) and **Kenneth England** (B.B.A. '72) make their home in El Paso where he is manager of the excise tax department of El Paso Natural Gas Company.

**John Harrison Gray** (B.S. '48) and his wife Cora make their home in El Dorado, Arkansas. He is president of Petroleum Graphics and Juan Grande Oil Co. Inc., and also an independent consulting geologist.

**Patricia Reid Rodgers** (B.A. '48) and her husband Pollard live in El Paso. She is a teacher with the El Paso Independent School District.

**John F. Haynes** (B.S. '48) and wife Althea live in Plano, Texas. He is a mining engineer with the Internal Revenue Service.

**Edward Shacklett** (B.A. '48) is a supervising parole agent with the state of California and lives in West Covina.

**William M. Moore** (B.B.A. '48) is manager of financial systems, TRW Mission Manufacturing in Houston, Texas.

**Judy Peterson Mangan** (B.A. '48) and husband **Frank** ('38 etc.), who live in Houston, plan to return to El Paso this spring. Judy is compiling a book on "Sun Sign Briefs" for publication this year.

**Alfredo Abrego** (B.A. '48; M.A. '50) is executive director of Guadalupe Community Center in San Antonio, Texas.

**Ted A. Small** is a hydrologist with the U.S. Geological Survey in San Antonio.

**Homer L. Dale** (B.B.A. '48) and his family live in El Paso where he is treasurer/director of Robert E. McKee, Inc.

**George B. McBride** (B.S. '48), Outstanding Ex-Student 1977, and family are making their home in El

Paso. He is president of Freeport Oil Company, Midland.

**J.M. Whitaker** (M.Ed. '48), superintendent of the El Paso Independent School District, has announced plans to retire this June. He served as director of admissions at UT El Paso from 1954 to 1964.

**Jeanne Ottman Casteel** (B.A. '49) and her husband Herbert live in Carthage, Missouri, where he serves as circuit judge.

**Richard P. Tiernan** (B.S. '49) has retired from 30 years with Aramco and affiliates, and is returning to El Paso with wife Peggy and children to make their home.

## CLASSES OF 1950-55:

**Stephen** (B.S. '50) and wife **Frances** ('49 etc.) **Laurence** live in El Paso. Steve is employed at White Sands Missile Range in the Data Reduction Division.

**Wynnell Dryden** (B.A. '52) has been named Business Education Teacher of the Year for District XIX. She will be honored at the state convention in Corpus Christi in March.

**John E. Parks** (B.B.A. '52) has retired from 26 years' service with the U.S. Army Military Police Corps. He is presently director of civil defense for El Paso City-County and secretary of the UT El Paso Alumni Association for 1979.

**Gaston L. Walker**, Ph.D., (B.A. '53) is professor of behavioral education and psychology at Tarrant County Junior College, Fort Worth.

**James L. Webber**, LTC/USA, ret. (B.S. '53) is director of community development in Pittsburgh, Kansas.

**Richard B. Isaak** (B.A. '53) and wife **Wanda** (B.A. '54) are making their home in El Paso, where he is associated with resource and energy development for El Paso Natural Gas Company.

**Denwood F. Ross Jr.** (B.S. '53) has been appointed deputy director, Division of Project Management, Office of Nuclear Reactor Regulation. He joined the Nuclear Regulatory Commission in 1967 as a project leader, has served as chief, Core Performance Branch, and assistant director for Reactor Safety. He holds a Ph.D. in nuclear engineering from Catholic University, a Master's in nuclear engineering from SMU, and a Master's in mathematics from TCU. Denny and his wife Shirley Mae are parents of two sons and make their home in Rockville, Maryland.

**William R. Fletcher** (B.B.A. '53), wife Cele and daughter Polly make their home in Phoenix, where he is senior employee development analyst for Arizona Public Service Company.

**David L. Pringle** (B.A. '53) is president of his own company, the *ph Factor*, in Hollywood, California. He records rock artists in concert for programming for nationwide distribution.

**Owen Dale Williams**, M.D., (B.A. '53) practices internal medicine in Dallas, Texas. He is clinical associate professor of Internal Medicine at Southwestern Medical School, and serves on the staff of Presbyterian, Gaston and Parkland Hospitals. He and his wife Marcia are parents of five children.

**William J. Rhey** (B.A. '53) is owner and general manager of Skyline Furniture Company in El Paso.

**George H. Mengel** (B.S. '53) is president of Mengel Engineering Inc., El Paso. He and his wife **Dorothy** (B.A. '51) are parents of four children.

**Rosendo Gutierrez** (B.S. '53) is president of PACE Engineering Inc. in Phoenix.

**William L. Humphrey** (B.A. '53; M.A. '55) is staff consultant with the Computer Sciences Division of Tenneco Inc./Corporate Information Services in Houston. He is doing doctoral work at the University of Houston.

**Grace Hooten Gates** (B.S. '53) and her husband live in Anniston, Alabama. She is on the history faculty at the University of Alabama in Gadsden.

**Lucius Casillas** (B.A. '53) is chief of the Television Production Section, Television Support Branch (BASC) U.S. Army Air Defense Center, Fort Bliss.

**William A. Oden** (B.A. '53) is retired from the Federal Aviation Agency. He and wife Dorothy make their home in Placitas, New Mexico.

**Eddie M. Wheeler** (B.S. '53) is project engineer with TRW Defense and Space Systems Group in Redondo Beach, California. He and his wife Jeanne are parents of three children and make their home in Blue Jay, California.

**John B. Gean** (B.B.A. '53) is a district manager of Hershey Chocolate Company. He and his wife Melba live in Lubbock, Texas, and are parents of three children.

**Sandra Straus Goad** (B.A. '53; M.A. '68) is a teacher at Roberts Elementary School in El Paso.

**William D. Thompson** (B.A. '53) is supervising engineer with Mountain Bell in Phoenix.

**Travis H. Bennett** (B.A. '53) is a staff microbiologist, Animal Science Division, Veterinary Research, Eli Lilly and Company, in Indianapolis.

**Marion E. Spittler** (B.S. '53) and wife **Mary Lou** (B.A. '51) make their home in Carrollton, Texas. He is president of the Oil and Gas Division of General Exploration Company. He was previously employed as director of geology, El Paso Natural Gas Company in El Paso.

**Louis "Gino" DePanfilis** (B.S. '54) is a civil engineer with H.B. Zachny. He and his wife Nell and children make their home in San Antonio.

**Estill F. Allen Jr.** (M.A. '55) is a retired minister and a teacher at Lydia Patterson Institute in El Paso.

**Faye Cormier Harris** (B.A. '55) has been admitted to the State Bar of Texas and has joined her husband **Lavern D. Harris** (B.A. '54) in practice in Kerrville, Texas.

## CLASSES OF 1956-59:

We were delighted to hear from **Barbara Banner Root** (M.Ed. '56) of Wee Waa, New South Wales, Australia, who wrote to say she enjoyed NOVA, her "only source of information about UTEP, friends and El Paso happenings." Barbara, her husband Wandall W. "Stub" Root, and their four children, were the subject of a NOVA story, "The Roots of Wee Waa" in the Summer, 1967 issue. The Roots have lived in Wee Waa since 1963; the town is 372 miles by rail northwest through the outback from Sydney near the Queensland border. Stub is a cotton producer.

**JoAnn Billingsley** (B.A. '56) is a counselor and instructor at Pasadena City College, Pasadena, California.

**Chester Coy Harrison** (B.S. '57) has been named manager, Network Operations for the Georgia area of Southern Bell. He hopes to find other alumni in his area who might be interested in forming a UTEP alum chapter.

**Mignonne LaLonde Peterson** ('58 etc.) writes that she and husband Bill and two children live in Tacoma, Washington where he is research manager for Weyerhaeuser Company.

**Michael B. Hernandez**, Ph.D., (B.A. '59) is a supervisor with the Equal Employment Opportunity Commission in Dallas. His wife **Sara L. Hernandez** (B.A. '62) received her M.A. in nursing from Texas Women's University in December.

**Ruben Porras** (B.A. '59) is a supervisory program officer with the office of Minority Business Enterprises, U.S. Department of Commerce, in Richardson, Texas.

**Mimi R. Gladstein**, Ph.D., (B.A. '59) is an assistant professor of English at UT El Paso. She was recently selected for inclusion in *Who's Who of American Women* and *Who's Who in the South and Southwest*.

**Rene Rosas**, D.D.S., (B.A. '58) was elected president of the Metropolitan YMCA of El Paso.

**Joel Nelez** (B.M.; B.S. '58) is a teacher in the El Paso Public Schools and is also band leader, arranger, and composer for the group "The El Paso King's Men."

**Ray Dutchover** (B.A. '58) is coordinator of Compensatory Education in the Santa Barbara County schools, California.

**Morgan R. Jones** (B.S. '58) is manager of sales and technical service for the Apache Powder Company, Benson, Arizona.

**Frances Morrill Holt** (B.A. '58) is a substitute teacher in the West Covina School District. She and her husband James are parents of two children and live in Hacienda Heights, California.

**Lloyd C. Hamilton** (B.S. '58) is sales representative for International Altimotive Inc. in El Paso.

**Fred G. Green** (B.M. '58) is a counselor with the Gonzales Union High School, Gonzales, California.

**Mitchell Esper** (B.A. '58) is an attorney in El Paso. He and his wife are parents of three children.



**William Devilbiss Jr.** (B.B.A. '58) and his wife Carolyn live in Glen Arm, Maryland. He is president of Charles W. Cowan Inc. and past national president of the Allied Trades of the Baking Industry.

**Jaime Arturo Caraveo** (B.B.A. '58) is head of Internal Revenue for the State of Chihuahua, Mexico.

**Doretta Bendalin Balk** (B.A. '58) is a member of the Contemporary Enamelists of El Paso. Her works were recently exhibited at the UT Union Gallery and in San Antonio.

**Gregorio Arrendondo** (B.S. '58; M.Ed. '67) is a science teacher at Coronado High School in El Paso.

**Dale Roberts** (B.A. '58) and wife **Patsy** (B.A. '56) make their home in Lawton where he is district manager for southwest Oklahoma, Chevrolet Motor Division of General Motors.

**Juan A. Ogaz** (B.S. '58) is a supervisory electronic engineer, Analysis and Computation Division, White Sands Missile Range.

**John L. Whitsell** (B.A. '58), a U.S. Navy chaplain, and his family live in Corpus Christi.

**Mary "Tita" Mahon Waggener** (B.A. '58) and her husband Jim live in Darien, Connecticut. Active in school and church affairs, she is a substitute Spanish teacher in the Darien schools.

**Charles C. Grant, M.D.**, (B.S. '58) has been in private practice in Maitland, Florida since 1968. He is a graduate of UT Medical Branch, Galveston, interned at the U.S. Naval Hospital in Charleston, and served as a submarine medical officer from 1963 to 1967.

**Lupe Rascon Clements** (B.A. '58) lives in Tempe, Arizona. She has published study prints "The Easter Ceremony of the Yaqui Indians," illustrated by her brother **Vincent Rascon** (B.A. '49).

**Maggie Cleghorn Meline** (B.A. '58) is a consultant for the Mentally Gifted Minor Program, Tustin Unified School District. She and her family make their home in Santa Ana, California.

**Nancy Creswell Thompson** (B.A. '58) and her family live in Lompoc, California, where she is an instructional aide with the Lompoc Unified School District.

**Rodney D. Jennings** (B.M. '58) is a drama and music teacher in the Northport Schools, Long Island, New York. He completed his Master's degree at NYU and is a doctoral candidate in theatre arts administration.

**Wesley C. Measday** (B.B.A. '58) is assistant vice president of the First National Bank of Arizona, Yuma.

**Jack D. Gothard** (B.S. '58) is elementary principal with the Crane, Texas, Independent School District.

**Donald Ray Nelson** (B.S. '58) is in real estate sales in Burnsville, Minnesota.

**Weldon** (B.A. '58) and **Barbara Donaldson** (B.A. '58) reside in San Diego, where he is general sales manager at KFMB-TV.

**Olga Arreola Mapula** (B.A. '58; M.A. '73) is a consultant for Bilingual Education and Evaluation in El Paso.

**Hector Holguin** (B.S. '58) is president of Holguin and Associates Inc., an engineering firm in El Paso.

**James P. O'Leary** (B.A. '58) is president of Vista Investment & Development Corporation, commercial investments.

**Carolyn Billman Jeffries** (B.A. '58) and her husband Larry are both teachers in New Castle, Kentucky. They recently bought a 150-acre farm and are raising beef and tobacco.

**Carlos C. Monedero** (B.B.A. '58) is president of C. Charles Monedero Inc., dba Jones Rest Home & Convalescent Hospital, in San Leandro, California. He was administrator of San Francisco General Hospital from 1970-1975.

**John L. Vickers** (B.A. '59), flying captain for Delta Airlines, lives in Dallas.

## CLASSES OF 1960-1965:

**William A. Gibson Jr.** (B.S. '60), his wife and children were recently visitors to attend a basketball game in the Special Events Center. They make their home in Silver City, New Mexico.

**Linda J. Robinson, Ph.D.**, (B.A. '60) is a professor of English at Eastern New Mexico University in Portales.

**Tilmon Kirby** (B.A. '62) is executive director of Ralph Wilson Youth Clubs of Temple, Texas. He had previously been a coach in Temple and Arlington for 15 years.

**Marte Fargason Jernigan** ('62 etc.), her husband Lee and their sons, along with their longhorn cattle, have appeared in the television series "How the West Was Won" and "Centennial." Their ranch is near Wilcox, Arizona.

**Josue Gomez** (B.A. '62) has been transferred to Mexico City as controller for Anderson, Clayton & Co., S.A.

**Robert S. "Bob" Rios** (B.S. '62) has been appointed Navy Science Assistance Program (NSAP) consultant to the Commander in Chief U.S. Naval Forces Europe (CINCUSNAVEUR). He will be working on Fleet Command control problems in London. At UTEP, he was among the Top Ten Seniors.

**Fred "Lico" Reyes** ('62 etc.) was recently featured in a story in the Fort Worth Star-Telegram. He owns "Disco Delite," an innovative disco-on-wheels.

**Calvin H. Benson** (B.S. '63), his wife Sherrie and children live in Morgan Hill, California. He is a buyer of equipment for the Nuclear Energy Engineering Division of General Electric Company.

**Cole Holderman** (B.A. '63) has been named chairman of the Task Force on Economy, Goals for El Paso.

**Paul B. Mitchell** (B.A. '63) who has been pastor of the First United Methodist Church in Hiawatha, Kansas, the past five years, was recently elected secretary of the Kansas East Conference of the United Methodist Church. He and his wife Katherine are parents of three children.

**Karen Beth Robbins** (B.A. '64) has joined the staff of Family Service of El Paso. She received her Master's in psychology from Texas A&I.

**Tommy L. Wells** (B.S. '64) has joined Tenneco Oil Company as a geophysical specialist in the Southwestern Division in San Antonio.

**Landis M. Curlee** (M.Ed. '65) has announced his retirement as superintendent of San Elizario School District, to become general manager of Denture-science distributors in Mexico.

**Richard B. Gomez, Ph.D.** (M.S. '65), supervisory physicist with the Atmospheric Sciences Laboratory at White Sands Missile Range, has received an award from Army Research and Development for a smoke obscuration model which he developed. He received his doctorate in physics from New Mexico State in 1976.

**George M. Fielding** (B.A. '65) has been named director of development at Texas Tech. He was recently awarded his M.S. degree in management from the University of Northern Colorado. He was president of the UTEP student body in 1964-65, and upon graduation served as administrative assistant to the UTEP dean of students. His wife is the former Nancy Sonnichsen (M.Ed. '69). They are parents of three children.

A letter from **Robert Z. Segalman, Ph.D.**, (B.A. '65) to tell us—"An era is over, the last stronghold of bachelorhood from the class of '65 has given in. I married Pam Mandell on Dec. 30, 1978, and am very happy." Congratulations, Bob.

## CLASSES OF 1966-1969:

**Roger R. Delgado Jr., M.D.**, (B.A. '66) has been awarded a medal and presidential citation for his "outstanding service as a surgeon" while serving in the Navy Regional Medical Center in Camp Pendleton, California. He developed a new surgical procedure credited with saving the life of a Marine. Discharged from the Navy this year, he has opened private practice in Sebastopol, California.

**Frank Varela** (B.S. '69) is currently manager of Data Base Administration for General Host Corporation. He received his M.S. in computer science from Arizona State University in 1974.

**Ruben Sandoval** (B.A. '66) is an attorney in San Antonio. He was recently honored as Outstanding Ex-Student at Jefferson High School in El Paso.

**Terrence Lee More, M.D.**, (B.A. '68) is a family practice resident at Bexar County Hospital in San Antonio.

**Betty Jo** (B.S. '68) and **B.A. "Pete" Petrello** (B.A. '49; M.A. '51) make their home in Santa Teresa, New Mexico. She was a teacher at Morehead for 7.5 years and is now enjoying the golf course on the mesa.

**Carol Ann Smith Price** (B.A. '68; M.A. '72) is an assistant instructor at UTEP and is working on her Ph.D. degree.

**Manuel C. Martinez** (B.A. '68) is a teacher at Bliss Elementary School in El Paso. He and his wife Elena are parents of two children.

**Peter C. Harmonson III** (B.S. '68) is in real estate investments in Lubbock. He and his wife Penny ('65 etc.) are parents of two sons.

**Gordon G. Gonzalez** (B.S. '68) is district manager of the Social Security Administration in La Marque, Texas.

**L. Bruce Elliott, Ph.D.**, (B.S. '68) is supervisor of the medical serology branch of the Texas Department of Health/Bureau of Laboratories in Austin. He received his Ph.D. from the University of North Carolina in May, 1976.

**Carolyn Jane Ramsey Duke** (B.S. '68) is a teacher in the Ysleta Independent School System.

**Mary Susan Moore** (B.A. '68) is artist-in-residence with the Texas Commission on Arts and Humanities in San Antonio.

**Amador Adame** (B.B.A. '68) is internal auditor for the El Paso Company.

**Rhon Whitaker Sheffield** (B.S. '68; M.Ed. '70) is a reading specialist in the Cobb County schools in Atlanta, Georgia. She and her husband Clifford are parents of two daughters.

**June Templeton Rain** (B.S. '68) and her husband Thomas live in Dallas where he is in his third year of residency at Parkland Hospital. She is employed as secretary for the Texas Scottish Rite Hospital for Crippled Children.

**Hermes T. Cervantes, Ph.D.**, (B.A. '68; M.Ed. '72) is a psychologist with the Denver Public Schools. He received his doctorate in curriculum & instruction at Colorado University in January, 1979.

**Mario H. Gongora** (B.B.A. '68) is vice president of marketing for Nortexco, Chihuahua, Mexico.

**Michael N. Gunning** (B.A. '68) is senior planner for the Department of Planning & Urban Development in Corpus Christi.

**Larry D. Lumpkin** (B.B.A. '68) is in real estate development in San Angelo.

**Corine Prieto** (B.S. '68) is a supervisor, Gravity/Magnetic Applications, Superior Oil Company in Houston. She received her M.S. from the University of Toronto, Canada, in 1974.

**Ronald R. Haugen** (B.A. '68) is an internal revenue agent in El Paso. He and his wife Beverly are parents of two children.

**Doyle** (B.A. '68; M.A. '74) and **Sara Miller Smith** (B.A. '68) reside in Lubbock where he is completing his doctorate in economics.

**Anton** (B.B.A. '68) and **Judy McIver McLellan** (B.S. '59) live in El Paso. He is an accountant with the El Paso Natural Gas Company.

**Betty Bunn Wheeler** (B.S. '68) is the librarian at Edgemere Elementary School in El Paso. She and her husband Tommy are parents of three children.

**Edmund W. Moore** (B.A. '68) and his wife Linda live in Nashua, New Hampshire. He is employed as acting chief of the educational TV facility, U.S. Army, Ft. Devens, Massachusetts.

**Albert G. Nelson** (B.A. '68) and his wife Nancy live in Bowling Green, Ohio. He is pastor at Christ Evangelical Lutheran Church and pastoral advisor to the Michigan District Luther League.

**Carole Spivey Cook** (B.A. '68) is a computer specialist with Business Data Systems at White Sands Missile Range.

**Brenda R. Tidwell** (B.A. '68) lives in New York City where she has been in social work. She is currently on a four-month work tour.

**Antonio Woo-Chew** (B.S. '68; M.S. '72) is manager of Quality Systems Audits for RCA Corporation, and lives in Juarez.

**Frances Marchbanks St. Clair** (M.Ed. '68) is a teacher-coordinator for vocational education at Coronado High School in El Paso.

**Louis A. Belmont** (B.A. '68) is supervisor of personnel and public relations for Mountain Bell in Albuquerque.

**Kenneth H. Rule** (B.S. '68) is general manager for Gillette de Puerto Rico and Dominican Republic. He and his wife **Sandy** (B.A. '69) make their home in San Juan.

**Jimmie C. Siddall** (B.S. '68) is a senior process control engineer with Rexene Polyafins in Odessa.

**Carolyn Dee Morriss** (B.A. '68) is a secretary at the American Embassy in London. Her previous assignments have taken her to Ankara, Vienna, Geneva and Washington, D.C.

**Susan Malone Waters** (B.A. '68) is a teacher at Ysleta High School, El Paso.

**Patrick B. Wieland** (B.S. '68) is the owner of Wieland Realtors in El Paso. He and his wife **Eloise** (B.A. '69) are parents of four children.

**Donald E. Martin** (B.B.A. '68) is audit manager for Price Waterhouse & Co., Washington, D.C. He and his wife Mari make their home in Arlington, Virginia.

**W. J. Tomberlin** (B.B.A. '68) is the comptroller with Tony Lama Company, Inc., in El Paso.

**Wilber E. Sanford, Maj./USA**, (B.S. '68) is editor and founder of *Air Defense* magazine. He and his wife Terry live in El Paso.

**JoAn Rosen** (B.S. '68; M.Ed. '72), a learning specialist with the Glendale Unified School District, lives in Van Nuys, California.

**Robert E. Rohl** (B.B.A. '68) is a C.P.A. and partner in N.C. Binyon and Company in El Paso.

**Margaret** (B.S. '68) and **Paul K. Frederick** (B.A. '75) live in El Paso. She is assistant principal at Ross Junior High School.

**Marilou Higdon Calabrese** (B.A. '68) is director of Esprit Day Care in El Paso.



**Marjorie M. Bullock** (B.A. '68) is a teacher of English in the Ysleta School District.

**RosaLina Valles Harrison** (B.B.A. '68) is a pharmaceutical representative for Winthrop Laboratories and lives in El Paso.

**Alex P. Garrett** (B.A. '68) is employed at Steward Observatory at the University of Arizona, Tucson.

**Thomas** (B.S. '68; M.Ed. '70) and **Ruth deVries Chaffin** (B.S. '69) teach in the mining town of San Manuel, Arizona. They have adopted four sons.

**J. Karen Kimball Edwards** (B.A. '68) and her husband Jeff live in Houston where he is in commercial real estate. They are parents of two sons.

**Ken** (B.A. '68) and **Teresa Hamilton** (B.A. '70) live in Sugarland, Texas. Ken is a C.P.A. with Price Waterhouse & Company and Teresa teaches elementary school.

**Sam Magill**, Capt./USA, (B.S. '68) has been awarded the Meritorious Service Medal at the U.S. Army Health Services Command Headquarters at Fort Sam Houston for developing the military's recently adopted Tri-Service Clinical Dental System.

**Jim Kurtz-Phelan** (B.A. '68), a member of the Atomey General's staff for the State of Colorado, has been nominated by Governor Dick Lamb to a position on the three-member Public Utilities Commission of Colorado. The Governor recently made the announcement at a press conference in which the nominee was present. Jim received his law degree from Yale and is married to Phyllis Kurtz-Phelan, a graduate of Duke University with an M.A. from Columbia. She is currently working on a second master's degree at the Denver campus of the University of Colorado. They are expecting their first child in August.

**Robert B. Borunda** (B.S. '69), vice president of Fouts Langford Gomez Moore, Inc., has been named "Young Engineer of the Year" by the El Paso Chapter of Texas Society of Professional Engineers. He is in charge of electrical and illumination design work, which included the Engineering Science Complex on campus.

**Jim Quiocho** (B.A. '69; M.S. '70), former director of Health and Physical Education for the metropolitan YMCA, is the coordinator of a new recreational leadership program at El Paso Community College.

## CLASSES OF 1970-75:

**Jesus Cortez** (B.A. '70; M.S. '73), Bilingual Fellow at the University of Washington, is in Cardiff, Wales, collecting data for his doctoral dissertation in bilingual education. He has served as a consultant for the National Bilingual Training Resource Center for Idaho, Oregon and Washington as well as a teaching assistant in reading education at U. of W.

**Steven A. Clemens** (B.A. '70), selected most valuable Company Man of the Year 1976 by the Independent Agents Association of Colorado, is an insurance broker with Reed Shaw Stenhouse in Denver.

**Doug Conwell** (B.A. '70) is completing his Master's in Urban Affairs at the University of Colorado.

**Rollin W. Roberts** (B.S. '70) is assistant mill superintendent for ASARCO, Silver Bell Unit, Arizona. He is working on his M.B.A. at the University of Arizona.

**Chester J. Callahan** (B.S. '70) is a geophysicist for AMOCO Production Company in the Midland Basin. He lives in Houston.

**Adam Nieto Jr.** (B.A. '71), his wife Judy and seven-year old son Edward are in the farm-ranch business in Vega, Texas.

**Richard A. Fields** (B.B.A. '71) is stationed at Chanute Air Force Base, Illinois, where he teaches a course in Minuteman Missile Systems.

**Dorothy Keyser** (B.A. '71) has been named director of publications and promotion for the Chicago Alliance for the Performing Arts (CAPA). She was formerly editor of *Modern Salon* magazine, and is a member of the Chicago Symphony Chorus and co-producer of Loaves and Fishes Opera Theatre.

**Rene O. Casavantes**, D.M.D., M.P.H., (B.S. '71) is in private practice at El Paso Medical Center as well as serving at UCLA on the Craniofacial Team and as a lecturer in Orthodontics. He received his D.M.D. from Harvard School of Dental Medicine in 1975, and in 1977 completed a three-year program for specialty training in orthodontics. He completed his Master of Public Health in 1976.

**Charles C. Brady**, 2nd Lt./USAF, (B.A. '71) was commissioned at Lackland AFB, Texas, and is training as an aircraft maintenance officer at Chanute AFB, Illinois.

**R.E. McFadden**, D.D.S., (B.S. '71), a graduate of UT Health Center/San Antonio in 1976, is in general dentistry practice in El Paso.

**John M. Myrah**, LTC./USA, ret., (B.S. '72) recently accepted a position as manager of international

marketing with the Vought Corporation in Washington, D.C. Earlier he was with General Dynamics in Pomona, California. Jack, his wife Phyllis and children make their home in Vienna, Virginia.

**Natividad Arrieta Jr.**, Capt./USAF, (B.S. '72) is a weapon systems officer at Lakenheath RAF Station, England.

**John M. Burton** (B.A. '72) has been named dean of students at Spring Hill College, Mobile.

**Steven G. Reid** (M.S. '72) is a consulting geologist in Casper, Wyoming. He and his wife Chris are parents of two children.

**Donald C. Wilson** (B.A. '72) is audit staff supervisor of El Paso Electric Company.

**Josefina V. Tinajero** (B.S. '73; M.Ed. '76) is presently in the Bilingual Education Doctoral Program at Texas A&I.

**Patricia Douglass** (B.B.A. '72), who completed her M.B.A. at UT Austin in 1976, is a systems engineer with IBM General Systems Division in Houston.

**W. Patrick Resen**, Capt./USA, (B.A. '73), who received his law degree from the University of Missouri, Columbia, was awarded the Meritorious Service Medal for service as the Staff Judge Advocate of the 2nd Infantry Division in Korea.

**Dave Binder** (B.A. '73; M.A. '75), assistant trainer under the late Ross Moore, has been appointed athletic trainer at Pan American University where he will be responsible for intercollegiate athletics.

**Robert N. Jones**, 2nd Lt./USAF, (B.A. '73) received his commission at Lackland AFB, Texas. He has been assigned to Keesler AFB, Mississippi, for training and duty as an electronic systems officer.

**Randolph C. Nolen**, 2nd Lt./USAF, (B.S. '73), also commissioned at Lackland, is at Tinker AFB, Oklahoma, for training as an executive support officer.

**Jose Franklin Urias** (B.B.A. '73), who received his Doctor of Jurisprudence from UT Austin in December, 1977, has opened two law offices, in Austin and in Fort Stockton.

**Mike Sherrod** (B.A. '73) is assistant vice president Consumer Loan Division, First National Bank of Midland.

**Leo Garcia** (B.A. '74) is an assistant district attorney in the 171st District Court in El Paso.

**Michael E. Shumer** (B.A. '74), who lives in Duarte, California, has recently joined with associates to form a non-profit corporation "Future Ideas Now," which produces audiovisual presentations for non-commercial use.

**Michael Gonzales** (B.A. '74) has moved from Houston to Albuquerque as sales manager for Heublein, Inc., Southwest Region.

**Stephen L. McDuffee** (B.B.A. '74) was recently named president/dealer of Mesilla Valley Lincoln-Mercury in Las Cruces.

**Michael Kruta** (B.B.A. '74) is president of Pioneer Corporation in Arlington, Texas. He and his wife **Elizabeth Halas Kruta** (B.S. '74) are parents of a young son Jason.

**Letty Paez** (B.S. '74; M.A. '76) is supervisor of youth programs for the Department of Human Development in El Paso.

**Wilfredo A. Ramirez** (B.S. '74) is mill superintendent for Carton de Venezuela (Container Corporation of America) in Valencia, Venezuela.

**John Sinclair** (B.S. '74) is a private investigator in Los Angeles.

**Fred Camarillo** (B.S. '75) is a telecommunications engineer with Mountain Bell in Albuquerque.

**Robert A. Olivares** (B.S. '75) graduated from the University of Minnesota Medical School in December,

and is taking his residency at Hennepin County Medical Center in Minneapolis.

**James J. Crouch** (B.B.A. '75) and his wife **Lillian** (M.Ed. '72) live in El Paso. He is a training specialist in data processing equipment at Fort Bliss, and Lillian is principal at Canyon Hills Intermediate School.

**Michael G. Collins** (B.B.A. '75) is a labor relations counselor with Employers Association of El Paso. His son, **Dana Collins** (B.S. '75), a certified professional consultant, is with Wells Recruiting Systems, Inc., in Century City, California. He is married to the former **Brady Neuville** (B.S. '75).

**Marion F. Zander** (B.S. '75) is attending graduate school at the University of California, Long Beach, and teaching nursing at Biola College.

**Randy E. Gibson** (B.S. '75) is an exploration geophysicist for Texaco in Midland.

**Delia Esquivel Ruiz** (B.S. '75) is nursing at Baptist Memorial Hospital in San Antonio.

## CLASSES OF 1976-1978:

**Gina Suzette Long** (B.S. '76) is a head nurse at Hotel Dieu Hospital in El Paso, and **Janet Albertson** (B.S. '77) is nursing at Providence Memorial.

**Gilbert A. Rodriguez**, 2nd Lt./USMC, (B.A. '76) has reported for duty with the 1st Marine Division at Camp Pendleton.

**Sister Lorraine Blanchette**, R.J.M., (B.S. '76) has been transferred from El Paso to Goffstown, New Hampshire, to teach at Villa Augustina School and Elizabeth Seton Parish in Bedford.

**Larry Victor Kluck** (B.A. '76) was presented the Barton Kyle Yount Award, American Graduate School of International Management, Glendale, Arizona.

**Carlos Hernandez** (B.S. '76) is a psychiatric social worker at the Texas Tech School of Medicine.

**Peter E. Hosey** (B.A. '76) has received an American Jurisprudence Award at St. Mary's University School of Law, San Antonio.

**Fred L. Rosenbaum** (M.B.A. '76) is area sales manager with Amerigas in Omaha.

**Vincent Acosta Jr.** (B.S. '76) is an associate electrical engineer with IBM in Austin.

**Scott Miskimins** (B.S. '77) has been named head of the Laser Tooling Department of Texas Instruments in Dallas.

**Cecilia Fresquez** (B.S. '77) is teacher/director at Socorro, Texas, Head Start Center.

**Jill Campbell** (B.A. '78) is an administrator in the marketing department of Tri-Data Company in Mountain View, California.

**Daniel J. Montes** (B.A. '77) is district assistant with Equitable Life Assurance Society of the U.S. in El Paso.

**Roberto Dominguez** (B.S. '77) is assistant manager in the Department of Human Resources with GTE Sylvania in Juarez.

**Frank L. Kelly**, 2nd Lt./USA, (B.S. '78) is with the Medical Service Corps, 27th Engineer Battalion at Ft. Bragg, North Carolina.

**Alfredo Escalante Jr.** (B.A. '78) is a migrant program teacher with the Ysleta School District and writes us, "I love the teaching profession and I enjoy all of my students."

**David Brewster** (B.S. '78) is a mechanical engineer with Continental Oil Company in Hobbs.

**Linda Lee Baker** (B.S. '78) is a petroleum engineer for AMOCO Production in Levelland.

**Javier E. Correa** (B.S. '78) has accepted a field engineering position with General Electric's Installation & Service Engineering Division in Schenectady.

**Victor G. Contreras** (B.A. '78) is assistant manager with the YMCA in El Paso.

# New Address?

## New Address

## Old Address

Name \_\_\_\_\_

Number & Street \_\_\_\_\_ Apt. Number \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Year Graduated, attended \_\_\_\_\_

Mail to: Development Office, U.T. E. Paso, El Paso, Texas 79968



# Memorial Fund Honors Vietnam Soldier



**Michael P. Burns** in 1968 and went to Vietnam as a Green Beret in April 1969. His unit was ambushed while awaiting a helicopter lift from behind enemy lines. He and another soldier

Friends and relatives of SFC Michael P. Burns are establishing a memorial scholarship fund in his honor. Burns, who attended UT El Paso in 1965-66, enlisted in the Army

who did not board the helicopter, radioed a message for help as it flew away. A rescue mission found no survivors. He was declared missing in action July 31, 1969, and was presumed dead last October 27.

His parents, Lt. Col. (ret) and Mrs. Paul Burns of El Paso, were active in the National League of Families which sought information about prisoners and missing personnel in Vietnam. She took part in a candlelight vigil before the White House and he was among relatives of 50 missing men who paid their own way to Laos trying to find out about the missing men.

El Paso chapters of Disabled American Veterans and their auxiliaries are assisting in establishing a \$10,000 endowment fund honoring Mike Burns. Interest will go for scholarships for University students pursuing degrees in fields related to work with handicapped children.

Mrs. Sophie M. Hill is chairman of the fund-raising committee.

Gifts may be made payable to UT El Paso, marked for the Burns Memorial Fund, and sent to the Development Office, University of Texas at El Paso, El Paso, TX 79968 □

## Deaths

**Dr. Edwin J. Knapp**, beloved emeritus professor of physics since his retirement from the University faculty in 1969, died February 14, in El Paso, at the age of 79. Dr. Knapp, described by his colleagues as "a source of inspiration, an out-



**Dr. Knapp**

standing teacher, scholar, and gentleman," served on the University faculty from 1931 to 1969, in both physics and math. Born in Milwaukee, Wisconsin, April 15, 1899, he attended Milwaukee State Teachers College (1917-18), earned his bachelor's degree in experimental physics at the University of Wisconsin in 1921, and his Ph.D. in the same field in 1931. He had served on the Wisconsin faculty before coming to the College of Mines and Metallurgy in El Paso as associate professor of mathematics and physics.

Prof. Oscar McMahan, who retired from the physics faculty of UT-El Paso in 1973 and who is also emeritus professor of physics, was a colleague and friend of Dr. Knapp's for 35 years. Said Prof. McMahan: "Dr. Knapp was a superb teacher, of course, and very professional, decisive and respected as chairman of the department when it was combined as Mathematics and Physics. He was a grand gentleman and a man who made a fine contribution to the University."

Prof. Robert Schumaker, director of admissions for the University, was a student of Dr. Knapp's and remembers him well: "I learned to respect his methods and his wisdom," Prof. Schumaker recalls. "I was among the first graduates in physics—in 1943—from the College of Mines and Metallurgy, and the leadership and inspiration Dr. Knapp provided me will never be forgotten."

Dr. Knapp, in addition to his teaching, administrative, and research-writing activities, served for many years on the Faculty Athletics Committee and on the Executive Council of the NCAA.

He is survived by his wife, Louise, and four children.

An endowment fund has been established by his sons. Contributions may be sent to the Development Office, UT El Paso, El Paso, TX 79968, payable to the University with notation that they are for the Dr. E.J. Knapp Memorial Fund.

**Warren H. Mizer**, technical staff assistant in the Electrical Engineering Department, November 19, 1978. He had been on the

University staff since 1965. Survivors include his widow Madeline and two daughters.

**Elbert R. Bowman Jr.** (M.Ed. 1978), December 7, 1978, in El Paso. He was active in real estate and had served as director of recreation for the city of El Paso. Survivors include his widow Evelyn, a son and a daughter.

**Herbert W. Butcher** (1937 etc.), December 22, 1978. He was the owner of Allied Products in El Paso. He is survived by his widow Marie, a son and two daughters.

**Lee A. Chagra** (B.A. 1959), in El Paso, December 23, 1978. A well-known attorney, he is survived by his widow and children.

**Millicent T. Van Horne** (B.A. 1951), in Los Angeles, California, December 23, 1978. She is survived by her husband Charles.

**Raul Calanche** (B.A. 1953), in a traffic accident in January, in Salinas, California, where he was a teacher. Survivors are his widow Aida, two sons and three daughters.

**Hector D. Silva** (B.A. 1942; M.Ed. 1952), January 7. He was retired from the Ysleta Public Schools and is survived by his wife, two sons and a daughter.

**Agapito (Pete) Marrujo**, January 18. At the time of his death he was assistant registrar for the El Paso Centennial Museum. He joined the University in 1954 and had also been an instructor in chemistry and laboratory services supervisor, had served as a warehouseman and with the Food Service.

**Flora Lee Ritchie** (M.Ed. 1950), in El Paso, January 22. She was a retired school teacher and is survived by her husband Jerry.

**Harvey Lee McCoy** (M.Ed. 1965), in El Paso, February 5. Assistant principal and assistant coach at Clint High School, he was former coach at Bel Air and Ysleta High Schools and had served as assistant principal at Eastwood High School. Survivors are his widow Yvonne, two sons and two daughters.

**Lois Wikoff**, assistant professor of nursing, February 18, after an illness. A faculty member since 1977, she formerly taught at Johns Hopkins and Towson State universities in Baltimore. She served in the Air Force Nurse Corps from 1951 to 1973, retiring as a lieutenant colonel. She held a BSN degree from Washington University of America in Washington. She represented the College of Nursing in the Faculty Senate and was a member of the District Nurses Association, American Heart Association and Sigma Theta Tau, nursing honorary society.

**George Earl Horn** (B.S. 1972), May 18, 1978, in Houston where he was coach in the Houston Public Schools. Survivors include his mother and father, eight brothers and five sisters.

**Dennis Gonzales Jr.** (B.S. 1959), June 27, 1978, in Oxnard, California, after a surfing accident. He is survived by his wife Sara and two sons, his mother Mrs. Dennis Gonzales Sr., and two brothers of Oxnard. He was employed by the U.S. government at Port Hueneme, California.

**Roy C. Fisk Jr.** (B.B.A. 1949), in El Paso, August 2, 1978. He was former assistant business manager for the University. Survivors are his sister and two brothers.

**Floyd Dale** (B.S. 1923), August 4, 1978, in McAllen, Texas. A geologist, he worked for the U.S. government in Guadalupe, Mexico, and at Hoover Dam, Colorado, and was a resident of McAllen for fifty years. He is survived by his wife Rubye Lee Dale and two sons.

**Julian F. Cole** (B.S. 1948), in Midland, Texas, September 16, 1978, where he was an independent geologist. He is survived by his wife JoAnn Waller Cole (B.A. 1945), two sons and two daughters.

**Clifford D. Coble**, Major/USAF ret., (M.Ed. 1969), in El Paso, October 18, 1978. A graduate of the U.S. Military Academy, he retired after 21 years of service and was a teacher at Coronado High School. He is survived by his wife, a son and daughter.

**Bettie H. Duncan** (B.A. 1964), October 25, 1978. She is survived by two sons and her mother.

**Michael P. Burns** SSGT/USA, (1965 etc.), missing in action since July 31, 1969, presumed dead October 27, 1978. Memorial services were held in El Paso. Survivors are his father and mother of El Paso, two sisters and two brothers.

**Jack H. Spencer** (1950 etc.), November, 1978. He was a resident of Garden Grove, California, where he was employed at Smith Tool Company. He is survived by his wife Nikki.

**Mary Anne Wainwright** (B.A. 1941), in Walnut Shade, Missouri, November 1, 1978. She is survived by her husband and a daughter.

**Naseem Safdari**, Ph. D., November 3, 1978, in Peoria, Illinois. She was an assistant professor of English at UT El Paso from 1962 to 1966. Survivors include her husband Dr. Yahya Safdari, professor of mechanical engineering at Bradley University, Peoria, two sons and two daughters.

**Mario Talamantes**, a student at UT El Paso, November 10, 1978, in an automobile accident. He is survived by his parents, a brother and two sisters.

**Carroll W. Smith Jr.**, LTC/USA, ret., (1947 etc.), November 11, 1978, in El Paso. He is survived by his wife Doris, four daughters and one son.



(timepiece, clock, watch) springs to mind, but any others? In fact, the 18th edition (Madrid, 1956) of the Royal Academy's *Diccionario de la lengua Española* lists no less than 21 Spanish words ending in *j* (ranging from *aj* to *almoraduj*, each a type of plant), but it takes an inverse dictionary to list them for you. Similarly, there are but eight words ending in *f* (including *huf* and *puf*, as in blow your house down), three ending in *g* (*zigzag* is one of them, meaning the same as in English), four ending in *h* (*ah, bah, eh, oh*) four ending in *k* (*acampak, yak, cok, volapuk*—look them up), and five in *p* (*cap, salep, galop, top, chup*).

(There are 16 words ending in *b*, 26 with *c*, three ending in *ch*, 47 with *m*, 57 in *t*, 36 ending in *x*, and something like 113 ending in *u*. Name one of each.)

Early in his compilations, Dr. Russell encountered some problems in the computer sorting of the words to be placed in inverse order. Because of our format, the IBM punchcard could carry no word of more

than 18 characters, for example. But this proved to be a minor problem since he had identified only about 40 words of more than 18 letters—the longest being *electroencefalografía*, *desproporcionadamente* and *bienintencionadamente*, words which translate themselves. These were simply sorted by hand. Words containing *ch*—considered one letter in Spanish—and *ñ* words such as *cañón* and *uña* (also a separate letter and distinct from *n*) were eventually dealt with, but not without some labor.

Eventually, the computer sheets listed over 75,000 Spanish words in inverse order.

Since Dr. Russell's original plan for a full-length inverse dictionary was preempted in 1973 with the publication by the University of Illinois of such a work, the UT El Paso professor is now zeroing in on a more functional book. He explains: "In my computer print-out there are about 75,000 items listed inversely. This was based on the 18th edition of the Royal Academy dic-

tionary, just as the Illinois book is. There is now a new edition, but in reality, there are only about 5,000 words that can be considered 'useful' in the sense of common usage. Statistics have been published which show there are about 5,000 Spanish words which account for something over 94% of the words which constitute a typical Spanish text."

The statistics Dr. Russell mentions appear in a very esoteric but immensely valuable work, *Frequency Dictionary of Spanish Words*, compiled by Alphonse Juilland and E. Chang-Rodríguez and published in 1964 by Mouton of the Hague, Netherlands. Using a sample of 25,000 sentences totaling 460,813 words, Messrs. Juilland and Chang-Rodríguez show, by graph, chart and rarified language that the first ten most frequently occurring words (*de, el, la, y, en, él*, the pronoun *que, ser*, and the conjunction *que*) appear 168,246 times in the sample or 36.55% of the time. The first 500 most frequently occurring words appear 305,200 times or 66.2% of the time. And the first 2,500 most frequently occurring words appear 436,065 times and account for 94.6% of the sample of 460,813.

"I intend taking about the first 5,000 words—which should account for nearly 95% of the 'useful' Spanish vocabulary—and arrange them in inverse order. The value of this book will be about the same as for the more 'definitive' one I originally had in mind. Above all, it should be of value to the teacher of Spanish and the student of Spanish. The rhyming dictionary benefit will be there too. And, if anybody needs to know how many words there are in Spanish ending in *j* or *u*, I might include a chart showing the answer!"

Dr. Russell says his book will differ from the Illinois production in that it will contain not only the words in inverse order, but their parts of speech, and noun gender.

He is also currently at work on an article to be submitted to the editor of *Names*, journal of the American Name Society, suggesting that publications containing name lists should provide as a supplement or appendix an inverse listing of the same names. The rationale for this argument is that the suffixes of many place names can, for example, provide evidence of the language spoken by the early inhabitants of a geographical region.

Dr. Russell cites, to illustrate the importance of place name suffixes, a work by the great Spanish scholar, Ramón Menéndez Pidal, *Toponimia prerrománica Hispánica*. "Menéndez Pidal," Dr. Russell says, "devotes about a third of his 300-page book to dealing with suffixes as indicators of the linguistic origin of Spanish place names."

And so it goes. The value of and potential for inverse lexicography appears to be fathomless.

Otto Gradenwitz, poring over his Latin manuscripts, worked with endings, but it was only the beginning. □

## A Night in the White Sands

by E.C. Kennedy

An interesting article by Nancy Hamilton appeared in the December, 1978, issue of NOVA. In this scholarly paper Mrs. Hamilton described the White Sands of New Mexico from the viewpoint of a scientist. Her article prompted me to write this account of an experience I had in that place.

At the time of the incident I was an adjunct professor of mathematics at the College of Mines and the late Dr. Edwin Knapp was head of the department. During the Thanksgiving holiday, 1932, Dr. Knapp and I drove up to the White Sands to spend the night in the desert. This was before the region became a National Monument and a tourist attraction. It was long before the advent of the Missile Range.

We had both been on camping trips before so we thought we knew what was needed. We each took along a blanket, plenty of food, and some coffee. We were careful to include a jug of water, some matches, and a few small sticks of firewood.

At that time there was no road leading into the White Sands, so far as we knew. So, we left the highway near Alamogordo, cut across the countryside, and drove a mile or two inside the region, dodging the barren dunes (heaps of "gypsum sand") as best we could.

Arriving at a satisfactory stopping place we built a campfire, ate supper, and talked for a while. During the trip up the sun was shining and the day was warm, but soon after dark it got quite chilly in the desert so we went to bed early.

The night was as silent as a grave, except for an occasional screeching of a bird or some faint insect noise. A myriad of stars

hung in the heavens. In the far distance we could see pin-points of light moving slowly along the highway. On several occasions a large bird flew low overhead and we could hear the flapping of its wings. All of these things tended to make the situation unreal. I had an eerie feeling as if I had been transported to the dark side of the moon. Dr. Knapp was ordinarily a good conversationalist, but at that time neither of us had much to say.

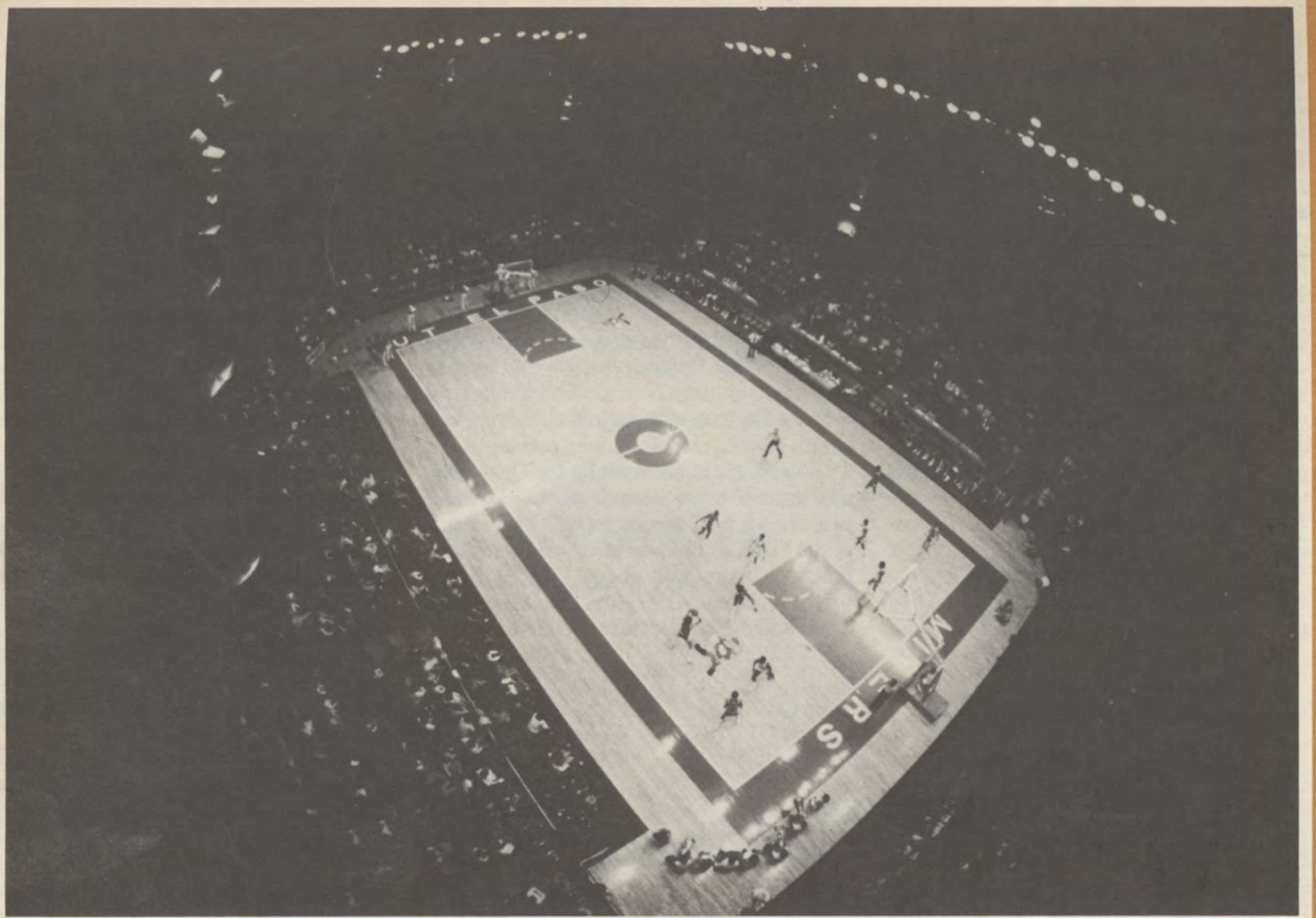
Pretty soon it began to get cold. The blanket proved inadequate, so I got up and put on my clothes and got back in bed. But that didn't seem to help much. The temperature dropped lower and lower. The cold was so bone-chilling that sleep was impossible. Never in my life had I ever been so cold. It even occurred to me that I might freeze to death before morning.

We could not keep a campfire burning because there was no firewood at hand; we had brought up only enough for cooking purposes. At the first sign of daylight, we got up and made a small fire, using the last of our meager supply of firewood. Above all else we wanted some hot coffee. But that was not possible: the water in the jug was frozen hard.

As soon as we could see how to navigate among the sand dunes, we loaded up the car and headed for home without breakfast or coffee. What we wanted most was to get thawed out.

I had always assumed that a desert was hot so I was expecting a warm night, but I sure got a surprise. Mrs. Hamilton explained in her article why the White Sands get so cold at night. I wish I had known about that earlier. □





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