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

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# NOVA

THE  
UNIVERSITY  
OF TEXAS  
AT EL PASO  
MAGAZINE



March, 1974, Issue: A Potpourri on Power & the People; a Poet and his Poetry; Publications; Playing; Coping.



# THE VIEW FROM THE HILL



Mail-bag-time. We get mail, though really not by the bag-full, at NOVA, and some of it is too interesting not to share fully (outside AlumNotes) with our readers. Take, for instance, the letter we had on January 8 from Lewis C. Woodul (M.E., 1925-28):

"The cablevision coverage of the Sun Bowl game last month included some shots of the immediate surroundings that brought memories of football at Mines in 1925 and '26.

"I don't know whether the present Sun Bowl is on the site of the old practice field used in those years, but if not, it must be close by. One remembers that it was innocent of grass but did have large areas of the mat that produces what we used to call 'sticker burrs.' The rest was sand on andesite porphyry. There may have been a short section of concrete steps for spectators, but no one ever watched practice. Home games were played at Dudley Field and not many people watched them, either.

"The dressing room for practice sessions was a small dark cellar under Keeno Hall (some of my contemporaries spelled it 'Keno' but I think they were weak in spelling). This dressing room had two showers, a few lockers and wooden benches, and a stench only the young and zealous could ignore.

"So here we suited up for practice in heavy leather shoulder pads, leather kidney pads, heavy canvas pants and heavy leather helmets. We had orange jerseys and our heavy leather shoes were bottomed with hard rubber soles, the cleats moulded in. The cleats didn't last long in the andesite porphyry and neither did our skin.

"It was a short run from the dressing room to the practice field on a rocky trail that went over a low pass between two hills. Practice consisted of what I suppose is still the usual—punting, passing, running and blocking for the backs; blocking, tackling and use of the hands for the linemen and a lot of pass receiving for the ends. There was a primitive tackling dummy and a huge sled made of timber which the linemen pushed around to develop their leg muscles. And there was scrimmage, of course, but it wasn't always possible to muster 22 men for the purpose (the whole student body was about an even 100).

"Practice over and back in the dressing room, there was a painful procedure of removing the elaborate

ankle braces, which consisted of white adhesive tape wrapped tightly and liberally. Next came a five-minute stand in a washtub containing a tannic acid solution, this for hardening the feet against the hard leather shoes. A long wait, or a fight, for one of the two showers was followed by generous applications of iodine to the cuts and abrasions that contact with the field had contributed. And another day of practice was over.

"This is a lot of reminiscence for a few TV shots of the Sun Bowl and I'm not sure why I've written it. Old age, probably. Maybe you have a college historian who files away such memorabilia for the edification of future generations."

In writing Mr. Woodul to thank him for this splendid letter, NOVA received this further comment: "With regard to my letter, I have no objection to your using it, but I should remind you that the reminiscences of old men make dull reading except for those who share the memories. I think the only teammates still living in the El Paso area are the Mustain brothers (Marshall and Paul), and Jack 'Hawk' Nelson."

We also received a beautiful letter from Bruce Janet ('66) and Taube (Markowitz) Janet ('65 etc.) in Manassas, Va., Taube doing the writing and saying the community college system there is called NOVA—for Northern Virginia Community College. Bruce, after serving five years as a Navy jet pilot is now building a reputation as a masonry contractor in Northern Virginia and Maryland. "He hasn't let his mining engineering degree go to waste, either," Taube writes. "At present he has a dimensional (as opposed to crushed) stone quarry in the embryonic stages of development." Potential reserves range upward to \$80 million, capital investment in the venture figures in at about \$100,000.

The Janet's children are Jason, Shana, and Arlen. In Taube's spare time she is an income tax consultant and part-time student at N. O. V. A., as well as the lone bus driver (50 miles and ten kids a day) for Shana's school. "I've heard of carpooling," she says, "but this is ridiculous! I'm a one-woman mass-transit organization.

"We miss the glorious western sunsets but the abundant greenery and forests more than compensate."

**HOMECOMING '74** will be November 8-9 this year. Mark your calendars!

The Ex-Students Association has formed a "Flyin' Miners Travel Club" and has scheduled its first trip—seven days in the Caribbean. If you are interested write for information to the Exes Office at UT El Paso, 79968.

And also: The Alumni Fund for Excellence volunteers begin their annual telephone campaign on March 18, so be receptive. We thank you, as always.



## COVER:

photograph by Peter Ashkenaz.  
Miner figurines by Mrs. A. B. Templeton

## BACK COVER:

A new aerial view of the University.  
Photograph by John Ireland.  
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## Sonnichsen Fund Launched . . .

# THE FLAME BURNS ON

by Jeannette Smith



There are a number of reasons why Peggy and Irwin Brand decided to initiate the C. L. Sonnichsen Publications Fund, the primary one being their wish to pay tribute to someone very special.

And there is no denying that "Doc" Sonnichsen is special to an incalculable number of his former students, his fans, his friends and colleagues—and those who fall into all three categories—as do the Brands.

During the 1940's, Peggy Cary (later Brand) and Irwin Brand were students at The Texas College of Mines and Metallurgy. At one time or another, each had occasion to take the famous Southwestern Lit course taught by Doc Sonnichsen.

Although Peggy (a science major) graduated in 1946 and Irwin (also a science major) earned his degree in 1947, neither of them forgot the quality of that course nor the man who taught it.

It wasn't until they read the Fall, 1972 issue of NOVA, however, that the Brands decided to do something about their admiration for the "grass-roots historian." In that issue of the magazine, Sonnichsen's speech titled "The Little Blue Flame" was printed. It was the speech he delivered at the May, 1972, commencement ceremonies at UT El Paso, shortly before he retired after 41 years as a member of the faculty.

"The Little Blue Flame" advances Sonnichsen's belief that the most important requisite of any good uni-

versity is a special relationship between teacher and student, and this is how he describes it.

*If you will let me use a simile, I think the whole arrangement is like a welding torch. There must be drums of liquid gas (classrooms, laboratories). There must be hoses and nozzles and gauges (offices, libraries). But if all you have is drums and hoses and nozzles, you can't do any welding. Somebody has to turn on the gas and touch a match to it and produce a little blue flame. The man who strikes the match is a teacher. The material that gets welded is the student . . . the real business of a teacher is to turn the student on, get him interested in and excited about something, show him what he wants to do and convince him that he can do it . . .*

After reading the article, the Brands were "ignited" into contributing almost \$5,000 toward the establishment of the C. L. Sonnichsen Southwestern Publications Fund. Once this fund has reached \$10,000, the interest from the endowed fund will be used to award, once a year, a cash prize to the author of the best manuscript about the Southwest that has been submitted for publication to the Texas Western Press. Selection of the winning manuscript will be made by the Press Editorial Board.

It is only logical that the Press be given the responsibility of dispensing the awards. Not only is the TW Press a part of the University, it has also published three of Sonnichsen's 16 books: **The El Paso Salt War** (1961),

**Pass of the North** (1968), and **The State National Since 1881** (1971), the latter co-authored with historian-photographer M. G. McKinney.

The role of the TW Press in this new endeavor is further explained in a resolution, adopted unanimously by members of the Press' Editorial Board, which says:

" . . . It is the Press' intention . . . to wisely put to use the income from this endowment so that it will reflect well on The University of Texas at El Paso, on Texas Western Press and its publications, on Prof. Emeritus C. L. Sonnichsen for whom it is named, and upon the Brands and other contributors to the endowment.

"Upon establishment of the basic sum which will provide a perpetual annual income, it is the Press' intention to select annually the best manuscript submission accepted for publication by the Press on the broad range of the life, history, and literature of the Southwest (the special domains of Dr. Sonnichsen), and present the author of that manuscript an award from the income of the endowment.

"The Board of Editors of the Press believe this annual award will not only reward an author for placing his or her work with Texas Western Press, but will encourage the submission of solid and important Southwestern manuscripts to the Press which might not otherwise come to its attention.

"Works selected for this award will bear the line "A C. L. Sonnichsen Southwestern Publication" or a line or emblem similarly appropriate."

UT El Paso's Development Office is responsible for administering the fund and Lloyd L. Leech, director of the Office, speaks for the University when he says "We are deeply grateful to Mr. and Mrs. Brand for their continuing generosity to this institution. We hope that other alumni will want to become a part of this tribute to Doc Sonnichsen."

Alumni Fund donations can be earmarked for the Sonnichsen Publications Fund as can contributions made by the members of the Matrix Society and President's Associates.

One doesn't, however, have to belong to the Ex-Students' Association or any of the other University-related organizations in order to contribute. Any of his friends can do so, as can those who do not know Doc Sonnichsen but who admire his writings.

When informed about the fund, Doc Sonnichsen commented: "The establishment of a fund to bring new and superior writers into our publishing program is a landmark in the history of our press and a significant contribution to the welfare of the University. By attaching my name to the fund, Peggy and Irwin Brand have done me an honor which I can never feel that I deserve but which I must deeply appreciate."



# "PLAY IS A CHILD'S WORK"

"Let's keep the copy short," said Dan Kies, Early Childhood Education Director, "and just show the kids." So that's what we are doing; only we need to take a few lines to say what's going on in the UT El Paso Education Building.

A kindergarten is what's going on—officially a "Multi-Cultural Bilingual Exploratory Kindergarten"—but a real kindergarten where children are laughing, chattering, looking, pondering, doing things.

It started in the summer, 1973, under the direction of Early Childhood Education specialist Dr. Daniel Kies, with the idea of adding new dimensions of study for future teachers of the young child.

"In light of the new emphasis on 'competency-based teacher education,'" Kies says, "our Elementary Education majors, studying early childhood education, have a decided advantage over their fellow students; that is, they have the opportunity to work with kindergarten-age children fifty percent of their time while taking courses which lead to certification as a kindergarten teacher."



Guillermo: The teacher was making a puppet. Yo puedo hacer puppets en mi casa con una balsa.



Lupe: Estaba jugando con el puppet. No recuerdo si estaba contenta.



Maria: When you sang "Time to put your things away," I put Goldilocks away.

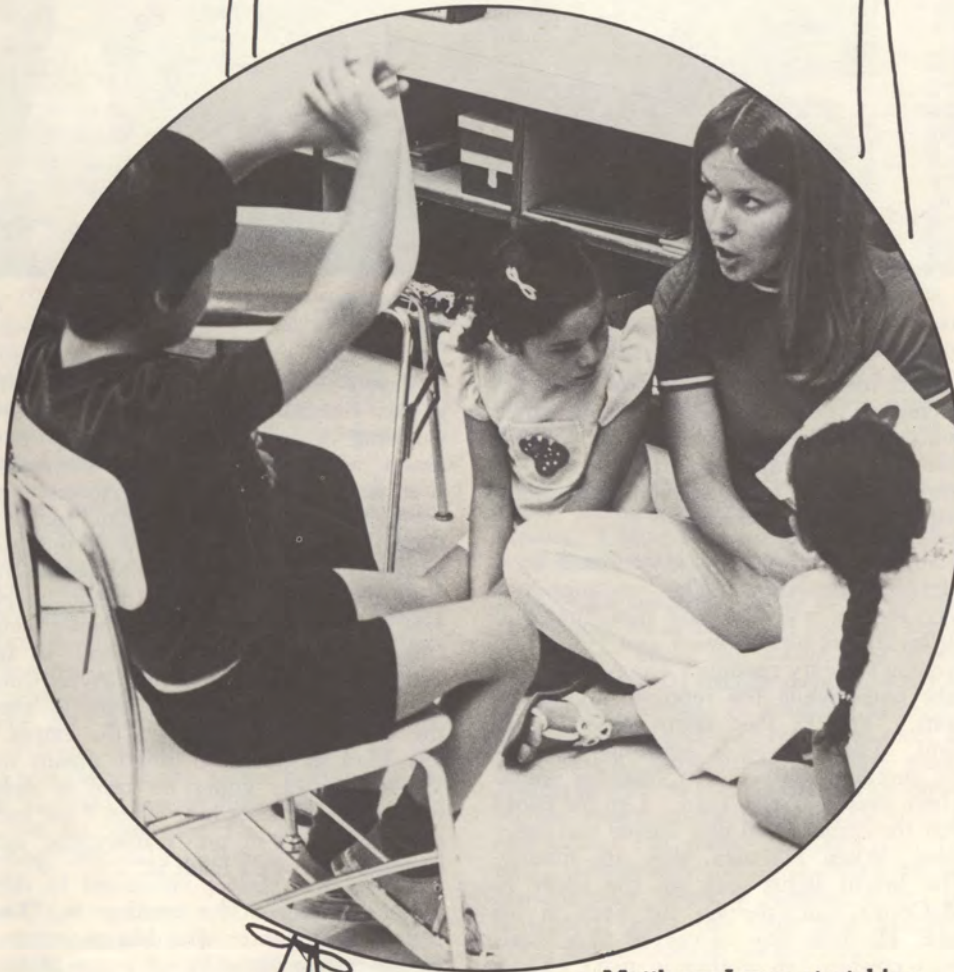




**Kelly:** I pushed buttons, those little buttons. My dress is pink.



**Lupe:** I wanted to play the guitar. I like Smokey the Bear.  
**Laura:** I wanted to sing Puff.



**Matthew:** I was stretching.  
**Gloria:** It was a story about a little boy with a new baby sister.  
**Edith:** Matthew was staring at me.

Not only do the college students reap benefits, Kies adds, but the children involved (the kindergarten is open to children who were five years old before September 1) are exposed to many different materials, resources, and people (the 'man and woman concept' affords children the opportunity of being taught by both sexes), in the natural way all children learn—"the play-way" which is universal to all cultures.

The Early Childhood Education Center provides excellent, modern facilities for the exploratory kindergarten: one-way window observation room, video-tape equipment and other devices which enable young teachers to observe others and themselves while working with children.

Each semester outstanding students are given a stipend while assisting Dr. Kies. At present these students are Mrs. Jane LaGrone, graduate assistant; and Mr. Bernarddino Hernan, graduating senior in Elementary Education.

Future teachers become involved in child's play, not in their *ideas* of what a child's play is like," Kies says, "and that is the value of our kindergarten."



**AUTHOR'S NOTE:** Once, several years ago, I had planned a trip from my home in Salt Lake City through Ohio. My friend John said to stop when I got to Bowling Green and call a man he knew living there who wrote good poetry. That man was Howard McCord. I wanted to write good poetry too so I was anxious to meet him. I did stop and call, from a noisy drive-up phone near the Ohio Turnpike, with a heavy rain just beginning to crack down. No one answered however, and our motel reservations were guaranteed hours down the road, so I did not talk to Howard McCord that trip. And gradually, I forgot I had ever intended it, being pressed as a graduate student, worrying over my bad poetry. Until one day this past November when Dale Walker at NOVA called to see if someone in the English Department might interview a poet coming to visit the UT El Paso campus.

Even before I heard the name, I had this small nudge of surprise, the same one I always get when I manage to join the two ends of one of my blackboard drawings of a circle. It seemed fated. So, years after I first set out to do it, I did meet Howard McCord. And it was a pleasure to tie one of my circles in such good company, as, coincidentally enough, Howard was tying one of his own by returning to El Paso, his home.

He was born in El Paso, grew up here, and graduated from Texas Western College in 1957 as did his wife Doris. His parents both attended Texas College of Mines. The first Woodrow Wilson Fellow from TW, Howard McCord has since published 14 books of poetry, with individual poems and other work in scores of magazines, including *Partisan Review*, *Harper's Bazaar*, and the *New York Times*. He has read at colleges from Berkeley to Cornell and currently directs the Master of Fine Arts Program in Creative Writing at Bowling Green State University in Ohio. His latest book of poems, *Friend*, will appear this spring.

Howard McCord is a poet whose mind's eye has never really left the landscape of his youth, in his words: "the drainage of the Rio Grande." For him, a physical return to the El Paso area is pleasurable, but not really a rare occurrence. For his poetry continually conjures and reflects the desert and the mountains, the valley of the river, the Organs, the Franklins, the cacti, the spider, the snake, the drifting sand and the delicate flowers of a dry country.

It is a lazy November afternoon, slanting light and a few sluggish flies at the windows where we sit, Howard talking of his land . . . "As a child growing up, out playing, I was always conscious of the mountains, good old Mount Franklin. In Ohio, where I live, I don't see any mountains. All I see are the streets in a rather nice small town, mostly farmland, and then these little woods. And if that had been the country of my childhood, maybe I would have been struck by those closer things. Perhaps the woods, the trees, the smaller things in nature might have at-

# CHARTING THE DARKER MOUNTAINS

by Les Standiford



**Howard McCord**

tracted me and become as strong an influence on me as, say, I believe the whole mountain ranges are now. And while I love the flowers and small things, really I tend to think in terms of mountain ranges rather the smaller woods."

Shortly after, we are interrupted by a television newsmen. The newsmen are here for an interview and film, that will air on the six o'clock news, just before the evening's poetry reading. I tag along and take notes while the reporter asks questions. "Yes, El Paso seems different, all right. The freeway is amazing. It took my mother's house. It's hanging somewhere over that new road." I go for books that the camera will pan during the interview. When I return, they are filming. The bright lights pick up the silver in McCord's hair, deepen the lines in his face. He looks now as rugged as a Marlboro cowboy, an authentic mountain climber. In fact, he tells me later, he has been doing a "light climb" in the Organs this week. He speaks of climbing blind through clouds, of breaking suddenly into baths of sunlight.

Trying to describe what he's looking for in his frequent backpacking adventures, camping in India, hiking the interior desert of Iceland, McCord emphasizes that he can change his perspective entirely, that he can shed his old skin. "I mean I get totally engrossed in the land. When we were traveling in Iceland this past summer we were out in the interior two weeks camping and the news would come over the short-wave radio in Icelandic and our Icelandic driver would utter a couple of laconic remarks about the cod war and that was the extent of any kind of news. I didn't dream that Watergate was going on and it didn't bother me the least bit. When I got back, the world was in pretty much the same condition as when I left it."

I ask him of the speaker in "Toad Man," a character who has gone into a woods on the shoulder of a mountain to live and listen to the toads calling from the spring. I ask him if he sees this Toad Man copping out. "It's a temporary respite, but it is a way of getting the perspective on what's happen in that world



out there that can be so horrifying. When you are continually caught up in it, it is very hard to get the long view, to see the events which seem so terribly important momentarily in the longer context of years or centuries or the vastness of geological time."

McCord spends considerable time in that workaday world as well. He teaches, administers a growing graduate writing program, lectures at various gatherings, serves on the national Coordinating Council of Literary Magazines, is currently at work on a book called *Desert* that includes a section on the arctic deserts of central Iceland and Lapland. Though perhaps best known as a teacher of writing, he also lectures in Asian civilizations, mythology, and general esthetics.

"Somebody asks me what I am and I'd say a poet, but also I'm a teacher; I'm a husband, I'm a father, sometimes I'm an auto mechanic, a plumber, and a mountain climber, and a walker, and when I think in terms of my art, yes, I write prose too. But I use poet here as an artist whose medium is language. Prose or poetry, it's using language to create an artistic object and to that extent then, I'm a poet."

Earlier in the day we had driven to La Hacienda, formerly the officer's club at the early site of Fort Bliss. On the way we passed the orange stone barracks that housed a cavalry unit during World War I. It seemed a particularly appropriate place for lunch. McCord ordered enchiladas, despite an acidic stomach, and said: "You don't get much Mexican food in Bowling Green." During the meal his eyes wandered toward the ceiling. Following his gaze I found a hand lettered sign high on the wall: THIS RESTAURANT WILL CHANGE HOURS OF OPERATION AS FOLLOWS BEGINNING APRIL 27, 1971. At the next table a young girl with sad brown eyes coaxed her Afroed baby to eat. A waiter spun through the tables, expertly balancing a pitcher of beer and three full glasses. McCord's gaze fastened on it all, and I wondered if there'd be a poem out of this.

After lunch, we walked down through the parking lot to a small field where a small stone memorial stood half hidden in brush and yellow grass. In cast letters it mentioned Simeon Hart's Mill, a crucial supply depot for the western-bound settlers of the mid-1800's, and our talk toward how it must have been. We were standing there, fifty yards from the river, a hundred from another country, and on the left was the freeway, traffic burning up on the elevated roads. But then the wind picked up, dimming the highway noise, ruffling McCord's hair and the upturned collar of his denim jacket; and we were quiet, staring down at the marker. For a moment, watching his intentness, it was possible to see the river fill and the grass green and the freeway fade . . . "My landscape has never been the city itself. I really don't associate the city landscape with home. I like the Franklins and the Organs, the Hueco Tanks, and the deserts

around where I spent very happy times."

McCord describes himself as a poet of the landscape; but before you associate him somehow with all those faded and static paintings on an aged aunt's parlor wall, you should take a closer look at what this landscape artist can do. His landscapes are rugged country, full of the dangers of desert-baked snakes, sheer drops to the rocks, no water, a hot sun, Indians patient as circling hawks, slipping fingers on the cliff's last handhold—and these landscapes mirror, in their harsh and honest imagery, that deep interior psychological landscape that we each carry around inside. Sometimes we glimpse it unbidden in dreams, or in brief moments of insight that are sometimes fearful, and sometimes the best part of living.

In the poem "The Spanish Dark," McCord ties the two landscapes together in typical fashion:

The land is Mexico,  
the border is a delusion of the whites.  
The sand belongs to both sides of the river;  
it blows back and forth, back and forth.  
Everybody born in the drainage of the Rio Grande  
is an Indian or a Mexican.  
After the Spanish conquered it they  
turned into Mexicans. The land wins.  
The Indian wins.  
Because the Mexicans turn into Indians  
if they live in the land. The land only loves Indians  
who plant it easy and pat the ground  
to call the water down the row  
and it comes licking along the corn stalks  
like a puppy.

That evening, at the reading, the seats fill up quickly. Arriving late, someone rattles a locked door of the room, but McCord does not pause in his poem. Next to me a girl scribbles periodically in furious bursts. I try to see what images, what lines, what thoughts, but she hides the writing effectively with her arm. During a pause, I scan the anticipating crowd, turn to something McCord said earlier: "For me, writing and reading poetry is a way of trying to tell people that they have a wilderness even while sitting in their living room, protected, it seems, on all sides. There is this beautiful, strange, dangerous, lovely, loving wilderness, that is theirs to explore. I hope they will be richer if they explore it."

After the reading, a small group gathers at the podium to ask about Iceland, about the poems, about the availability of his books. A few old friends come forward to exchange greetings. It is agreed to reconvene for beers and we arrange to meet at La Cantina, again an appropriate place. Posters of literary greats stare sternly down on the rough tables, and literate graffiti curl about the walls. McCord sips his beer, occasionally lifting a hand to an acquaintance. Now a reporter from the newspaper joins the table and McCord offers the statistics of his profession.

"Circulation of all the little magazines, the literary magazines, is right about a million copies . . . maybe a quarter or a half million people are seriously interested in poetry being written today . . . The

Directory of American Poets lists twelve-hundred who have written at least one book . . . Poetry volumes are printed in editions of one hundred to maybe thirty-five hundred for the bigger presses . . . A few quite successful poets may pull in at best two thousand dollars a year from book royalties and other publication sales . . . maybe another five thousand to seven thousand a year doing two full reading tours . . . So a very successful poet can earn eight or nine thousand dollars a year from his craft, which is a living, though not a great one . . . And of course many poets are attached in one way or another to a university or academic institution of some kind and I'm thankful for that."

Later I ask him about the sometimes criticism that a writer or performing artist is stifled by the university and he reaffirms his feeling, emphasizing his points with the tapping of his glass. He says that the university is an exciting place for a poet because so many people are concentrated there, reading poetry and engaging the mind in general, even the people who use the facilities and enjoy the cultural offerings of the school without actually being enrolled. Pausing, he adds: "I've been very lucky in the two universities in which I've taught because I felt as a poet I was an accepted member of the academic community and respected for my art as much as an engineer or biologist or Shakespearean scholar is respected for his art. I think that if a university offers that kind of respect to writers in their midst, the writer can be very happy."

Someone asks if he feels he can teach anyone to be a writer and he smiles and waves his hand at the thought. "You don't teach creative writing, but you help creative writing happen, or you just encourage writing. I don't like the word 'creating' sometimes. You can't teach somebody to be a poet who doesn't have a sense of the vocational calling to be a poet—with that particular temperament and set of talents. If he has those things, you can teach him a lot about poetry and you can respond to his poems so that he will get an idea on whether his intended effects come across. But I don't know where the creative urge comes from."

As he finishes, he smiles again and lifts his eyes above the table, thinking? envisioning? Involuntarily I look too, expecting maybe a tiny flying muse, like a Tinker Bell hovering over us. Only smoke hangs there, but it's light and forms soft layers.

It is getting late, and spurred by the thorough, probing questions of the newspaper reporter, I begin to worry that I'll never get to the heart of Howard McCord. I fire out questions, about censorship, on the future of the university, on creative urges, on women's liberation. He smiles at my desperation, but there's always a response:

"A little school district in Ohio has just banned 'Winesburg, Ohio.' Then a few weeks ago a student of mine, now a teacher at Drake, North Dakota, wrote me that his school board had just burned three



dozen copies of Kurt Vonnegut's latest novel along with a treasury of modern short stories because one girl complained of profanity in the work. To the extent that the recent Supreme Court decision may increase the likelihood that such acts would be sustained, I think it was a silly and shortsighted decision . . .

On women's liberation he observes that if some illogical things go on in a movement, it is often because some individuals can get more involved in the movement itself than get involved in what the movement is trying to bring about. He mentions the excesses of the student unrest of the 60's where many students joined the movement as a kind of "in" thing to do, without any sense of the goals of building a more responsive educational structure. But speaking of the positive benefits of that period he points out that "Now, in most universities, student participation is *sought after* by the administration and by the faculty. The old paternalist institutions are pretty much a thing of the past."

Outside, caught in the glow of the neon signs, we talk of his feeling about his own work, his fears that some poems do not convey what he intended, his feeling of a boundless store of poems inside him just waiting on Howard McCord, the man, to be about his business. It's heady talk now in the crisp air, and the mountains seems to have drawn up close in the dark. His eyes shine a little in the soft light and the wind is cruising again.

At last we strike a pause, and sense that it's getting late. While we stand I try to conjure up the earlier words that struck this same sense of great anticipation, of possibility, that seems to hover here about a street corner, but it is not until later that I can look them up . . .

"You know, the deserts are really quite fragile. Start plowing them up and they'll blow away in front of your eyes. You have to learn to get the water to the corn. You've got to be careful. You've got to be alert. There's a lovely Laguna Pueblo poet named Leslie Silco who has a poem about taking care of the mountain. And that attitude of taking care—it's hard enough to take care of your own farmland, much less a mountain. But to her, it extends the care that must be given not only in the house and out in the pueblo and out in the fields, but it extends beyond that to the mountain itself, for which a care almost like reverence must be maintained.

"And I think that is what I always hope that people come to wherever they are; and I hope that awareness will send itself down the line."

While I stand there trying to pick up the right phrase, form one last question, something tells me it's time to stop for now. McCord smiles again and waves goodbye and walks around the corner of a building out of sight.

For all I know he is headed for the mountains.

## THREE POEMS by HOWARD McCORD

### BACK FROM THE ORGAN MOUNTAINS

Climbing is the hard work of going where there's no particular need to go, except the wish, and call from the goddess who hides in stone, her voice basil, quiet as a scent.

The vertical is cause enough for human disorder, steep is confusion, slick, and with a wind produces the liberation of folly, and the celebration we came for.

Ice is a kind of laughter, and I do not dream of falling, but of reaching where I cannot see, grasping a corner into which the universes fold, and holding it all for an instant.

### FRIEND

What if I  
am given  
to absolutes?

Inside I am  
a theologian.

My belief is  
fervent,  
unyielding.

I believe in  
uncertainty,  
compromise, the  
sorriest kind  
of reality.

Things are  
not what they  
seem, they are  
**only** what they  
seem.

And stuff  
like that.

I may be  
the sole person left  
still possessed

by ontology . . .  
like a cobbler

with no shoes  
to mend.

Could you love  
a cobbler  
with no shoes  
to mend?

A theologian?

A man  
with two  
left hands?

### FRIEND

Rare friend,  
tonight this is  
the most lovely  
and mysterious  
word  
in English.

aurora  
ruby  
rose

I am drunk on  
the word, my  
mind is slow,  
and hurts.

It means  
not often.

One dictionary  
lists Latin  
tautologies,  
but I know  
languages  
in which rare  
means "flaming pearl,"  
or "puffin-down."

It's used of women,  
wine, jewels, good  
lines in bad  
poems. Dawn's so  
common  
days without it  
are called  
**rare.**

Let us be thick,  
with deep affinities  
and never found  
apart  
in nature.

If something be  
rare about us, let  
it be our strength  
in love, and  
the way we swim.



# THE MINER WHO CROSSED THE LINE

by Nancy Hamilton



LOU COPE, 1970

The best stunt of the 1948-49 school year was putting Lou Cope's car on the Museum steps.

Nobody could go in or out the front door of the centennial for several hours. Nobody could figure out how the car got there; there were no tracks and no damage along the way; it was as if it had just flown up the steps and landed gently at the front door.

Lou first learned about it when he emerged from a house of worship he was attending with some friends. Herb Brashar was waiting for him and gasped, "For-God's - sakes - Lou - get - up - on - the campus - and - get - your - car - out - of - the - Museum!"

Sure enough, when Lou got there his 1934 black Chevy was still there. So were the police, laughing their heads off, and a wrecker. In removing the car, they also removed a few rose bushes from the flower bed.

"It was an emotional moment," recalled Lou at last year's Homecoming. "It didn't matter whose fault it was the car was on the Museum steps, it was my car."

It took him 15 years to find out exactly

how the prank was pulled, Cope said. He had had a premonition of trouble the night before and had carefully locked the doors and doublechecked them. But the pranksters didn't need to open the car to move it. They just picked it up. There were so many dorm guys and their buddies involved, there were more hands than places to put them to lift the car.

"Two weeks later they were going to put my car on the Engineering Building roof," Cope said. "They had broken into the car and pushed it to the construction site beside the building. Someone had hot-wired the crane there and started the engine but a watchman ran them off."

Dr. Anton Berkman, who handled school discipline matters, was very upset about the car on the Museum steps. Cope heard that he was saying things around school like, "Now I've got the goods on Cope." But Cope didn't get kicked out, even though he was constantly alienating himself against the administration because of his stand on the Name Change.

When plans came into being to change the College of Mines and Metallurgy to something else (Texas Western College in

1949), Cope was among the loudmouthed Engineers who opposed the move. They marched around in hard hats, carrying signs and trying to find support among the Eastsiders. Those were the days when the Peasants painted a green line along the east side of the present Geology Building and established their territory to the west of the line. Those of us from east of it were Peedoggies. We had separate political parties, social gatherings and such.

But Cope crossed the line one day and thereby endeared himself to the journalists. In fact he still attends the Journalism Luncheon every Homecoming (he has missed very few) and generally rated a special introduction from John Middagh, department chief, as our own mining engineer. But that's getting ahead of the story.

As he recalls it, Cope one day took issue with some statement in the Prospector and went to the office in Kelly Hall to register a protest.

"I was told that if I felt so strongly about it, I ought to write something. I ended up writing a column," he said. His column was called "The Wet Stope." He explains that stope is a mining term for an opening resulting from extraction of ore. (At mining conventions, a hospitality room is called a wet stope.)

Having two brothers in the advertising-PR-writing line of work, Lou readily fell in with the Peedoggie journalists and used to hang around the Prospector and El Burro-Flowsheet offices when he wasn't on the west side of the green line.

This was to prove a real boon to those of us who enjoy interesting letters and conversation, as through the years he has always kept up his correspondence with not only the Peasants but the Peedoggies as well. He and his wife Millie have sent me Christmas cards from all over the place, with photos of their two boys growing up and whatever animal—llama, dog, etc.—was the current family pet. Now that they are more or less firmly planted back in the States, we have a chance to reminisce at Homecomings and sometimes in between.

Their conversations are peppered with memories of their experiences abroad in the mining industry. Like the time they were living in Peru, among Quechua-speaking people at 15,500 feet, the altiplano.

"The people held a ceremony for Carnival the night before Lent, that had to end before sunup," Cope related. "They built a fire in a pit of certain dimensions and orientation, then took a white, living llama and cut out the heart and lungs. At one point in the Quechua incantation, the head man had a glass of wine and threw it over the fire. The lungs were severed from the heart and dropped in the fire.



The heart continued to beat for a few minutes and everyone there was supposed to put his hand on the heart and feel a beat. The blood was then drained from the heart and the people took it in little vials to their homes and sprinkled it around.

"I asked the mine foreman, who spoke Spanish, to explain the significance of these activities. He said the blood sprinkled around brought good luck to the house for the coming year and feeling the heart beat meant your own heart would continue to beat for the year. I said, 'This is an ancient Incan custom?' He said, 'Oh, no, es puro católico!'"

"Like most of his students, I had Prof. John F. (Pop) Graham on a pedestal," said Cope. Though Pop believed in staying 10 years on a job, Cope's plans were different and somehow Pop went along with his frequent changes in order to gain specific experience.

Dean Eugene Thomas regularly chewed him out at registration about his low grades. But in recent years, Cope had what he considers the ultimate compliment from Dean Gene. "One day I got a call from people about doing a consulting job. They said that they understood that I was the only G.D. mining engineer in the country who could do the specific job they wanted done in a rather wild area of South America. I asked who told them so, and it was Dean Gene.

Perhaps his greatest compliment came from another teacher. Prof. Guy Ingersoll had worked at a gold-silver property in the rather isolated interior of Ecuador. Fifty years later, Cope was working at the same camp in 1963. Prof Ingersoll visited and stayed with him for about three days.

"It certainly is nice," observed Cope, "to be out of college 13 years, be in a responsible job and have one of your professors visit and see how you are doing." He considers that visit one of the nicest things that ever happened to him.

When Cope graduated with a mining engineering degree (metallurgy option) in 1950, the mining industry was in a depression. He had worked summers, however, and the experience brought him three job offers. He chose a job at Climax, Colo., where he got a couple of quick promotions and realized he would miss some experience he felt he needed. So he became a tramp contract miner, known in the trade as a gypo. After a year in two or three different mines, he met Mildred McNulty from Minnesota at Bishop, Calif., and they were married in 1953. They settled down there and their first son, Larry, was born in 1954. Lou moved to a production supervision job in Nevada. The tungsten subsidy was discontinued and mines were shut down. "That hardened me against government controls because they make for feast or famine in mining," observed Cope.

He then worked in Newfoundland where Tom was born in 1957. Then came the opportunity for a job in Latin America, something he really wanted. He was the only engineer and the Copes were the only English-speaking people in their Honduras valley. Then they went to Peru, Ecuador,

and back to Honduras, with two periods in the States in between..

Millie taught the boys a correspondence course designed for their life style. When Larry was junior high age, they decided to come home, turning down offers from Mexico City, Bogotá and Lima, and moved to Denver in 1966.

"I worked three years for a design engineering company" Cope said. "Meanwhile Millie and I saw the need for helping mining professionals find jobs and started an employment agency dedicated to this. Millie took care of the business and I worked at it nights and week ends. I had been taking vacation and leave time on consulting jobs. So I decided in January 1970 to do what most engineers hope to do, hang out my shingle as a consultant and devote more time to the personnel work. Because of our acceptance by the mining companies, I have been able to do a lot of counseling to individuals and companies. I like it."

His consulting services have taken him all over the U.S. and to Canada, Mexico, Central and South America. He works in mine examination, evaluation, rehabilitation, construction, and trouble shooting. In the last six months the bulk of his work has been spent in gold operations.

"The gold industry was booming in the thirties," Cope pointed out. "During World War II it was stopped by government order. Now you don't turn a mine on and off like a faucet. When you shut it down it deteriorates. With a fixed price but costs of labor and marketing increasing, in most cases it becomes uneconomic to work gold."

The Copes didn't choose to go to Latin countries where there was a large foreign colony, but chose to go where they were the only or among the few foreigners. "It was a tremendous education for the children and interesting for us," he noted.

Among experiences they recall was the time of President Kennedy's assassination. Lou was traveling muleback in Ecuador in a backwoods area to look at a gold mine in the Upper Amazon basin. He was amazed to see a number of American flags displayed in the Quechua-speaking area. Millie was shopping in Cuenca and people came up and hugged her and were crying in sympathy for the death of her President.

While life abroad has been educational for the children, it also inspired some classic comments on return trips to the States. Such as the question from his small son "Daddy what's that funny flag?" on seeing the Stars and Stripes. And, when catching a bus in Houston, "Daddy, are all these people gringos?"

Larry, 19, is now a sophomore at Colorado University studying meteorology. Tom, 17, is a high school senior.

After learning to ski in his mid-40s about five years ago, Lou decided to go back to school, part-time. He is in his third year at Colorado Mines working on a master's in mining engineering. It shook him up a bit when the coeds called him "sir" and he couldn't pretend he was as young as he felt.

His thesis, which he hopes to publish, is

on gold mining. He worked with the late D. B. Smith, a fellow UT El Paso graduate whose mine at Colorado Springs was the subject of Lou's research. "I hope to make it an update of mining and milling methods of handling and treating gold ores," he commented.

Cope's special brand of humor is treasured by those who have come across it. Such as his remark to Jim Lundy, trying vainly to nudge his ancient vehicle into passing another car: "It's no use, Jim, he put it in gear."

Or of his description of the reaction of his seatmate on a Mexican bus when returning home overland from South America. They reached the boundary fence between Sonora and Arizona. Lou pointed proudly and exclaimed to the man beside him, in a voice filled with emotion, "Es mi patria." The Mexican looked at the endless stretch of desert nothingness and just shrugged. (When Lou tells it, it's pretty funny.)

While he has retained most of the characteristics that made him a memorable Peasant in the past, Cope has softened on one subject. That is the Name Change. He says now it was the only logical way to go. "How could anyone go to the College of Mines anymore when there hasn't been a mining degree program for several years? We have to make room for progress."

In the past three years he has been much involved with organizing UT El Paso Ex-students of the Denver area. He served as their first chairman, though he hastens to say it is a group effort. They meet at least twice a year with a "shirt and tie" dinner with a speaker, the last one being President A. B. Templeton, and a picnic in the fall, weather permitting. (It didn't in 1973.)

"Wynn Anderson of the Ex-Students office does our mailings and has been an outstanding help in getting this group going," said Cope. "We couldn't have gotten it together without his help."

He was AIME president in college and continues to be active in his professional group. Recently he was chosen to Who's Who in the Southwest. "I think it's a racket but Millie thinks it's an honor," he noted.

Among his longtime friends from college days is Dick Lindberg, who pushed the '34 Chevy from Anthony to El Paso when Lou first brought it here. Dick and Lou and Jack Neill had an apartment together on Arizona street, The Empty Arms. A few years later, when Lou and Millie were married in Tonopah, Nev., Dick was best man.

"He commented then that maybe I'd amount to something yet with a good girl like that," recalled Lou. "It's true. Everything I have become is due to her inspiration (pushing)."

Just as Lou is sort of an adopted journalism alumnus (the Engineers are proud to claim him, too), Millie is sort of an adopted UT El Paso ex. And the two of them are working with other exes in the Denver area to keep folks remembering their old school, from whichever side of the green line they may have originated.





# CONTRIBUTIONS REPORT

1973 GIFTS TO THE UNIVERSITY OF TEXAS AT EL PASO

## GIFTS EXCEED ONE-HALF MILLION IN 1973

Private support of the University by alumni and friends totaled \$515,419 during 1973. Contributions consisted of gifts of cash, securities, equipment, and books.

Ted F. Karam, Chairman of the Development Board—an organization which oversees all programs for the advancement of understanding and support of The University of Texas at El Paso—stated that, "By means of the various Honor Rolls on the following pages, we wish to thank the many alumni and friends who have contributed to the Excellence Fund. The many hundreds of donors listed in this report have helped the University to move forward at a much greater pace than state appropriation funds normally allow."

Dr. Arleigh B. Templeton, President of the University, stated that, "This report, reflecting over one-half million dollars in private gifts to U. T. El Paso, confirms what I perceived soon after my arrival one year ago. The El Paso community, and particularly the University's alumni, provide the greatest level of outside interest and support I have ever experienced at a public university."

"I am deeply gratified at the pride and commitment demonstrated by those recognized. It makes us all work harder to improve every University endeavor."

Of the total gifts during 1973, \$119,577 was contributed for the support of the University's Intercollegiate Athletics program. The remainder of the gifts, \$395,841, was in support of the University's academic programs. Of the academic contributions, the largest portions went to the unrestricted Excellence

Fund—most useful to the University because of its flexibility—and to student aid. The Library received another substantial portion of the total, both in gifts of books and in cash for book purchases.

Business firms, national as well as many El Paso companies, contributed more than \$113,000 to academic programs, and much credit for this support is due to the Development Board's Corporate Gifts Committee whose chairman was William H. Gardner and vice chairman was Hugh K. Frederick, Jr. Special thanks are also given to L. A. Miller for his special efforts in this campaign.

Alumni Fund for Excellence chairman, Bruce G. Bartell, reported that alumni again responded in force with a record 1,626 alumni giving in ex-

cess of \$65,500 in support of academic programs. Total contributions by alumni were \$79,800. Non-alumni individual benefactors were led by The President's Associates, a group of special benefactors who contribute \$500 or more each year in support of academic advancement. The chairman of the Associates was William H. Orme-Johnson, Jr. and this group contributed over \$40,000 to the University.

Mr. Karam expressed the appreciation of the Development Board and Dr. Templeton to the many volunteer workers who gave much of their time to the assistance of the University in 1973, and to the generous friends—individuals, businesses, professional groups, clubs, churches, and associations—who contributed this essential financial support to the University.



Ted F. Karam, *Chairman*



Tad R. Smith, *Vice Chairman*

## THE DEVELOPMENT BOARD

The Development Board—an organization of 25 leading business, professional and civic leaders of El Paso who are appointed for three-year terms by the Board of Regents after nomination by the University's President—participates in programs for the advancement of understanding and support of the University.

Their primary responsibility is to serve as a liaison between the University and the community and, upon request, to assist or advise the President.

Four new members appointed by the Regents for the current year are Marion S. Bell, Dr. Gordon L. Black, Jack V. Curlin, and Louis B. McKee.

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## THE PRESIDENT'S ASSOCIATES

Membership in the President's Associates increased to 50 in 1973, Chairman W. H. Orme-Johnson, Jr. announced. The Associates was established to give greater recognition to men and women who are leaders in support of the University's academic programs.

Contributions by The President's Associates totaled \$40,456 in 1973. One half of the unrestricted contributions were placed in The President's Associates Endowment Fund which has grown to over \$38,000. Income from this endowment is spent on academic programs selected by the Associates and the President of the University.

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Following are firms and their foundations which contributed cash and securities of \$100 or more to the University's academic programs in 1973.



**WILLIAM H. GARDNER,** Chairman  
Corporate Gifts Committee

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## ALUMNI CONTRIBUTE \$65,538 FOR ACADEMIC PROGRAMS

The Alumni Fund for Excellence began its second decade of existence with an outstanding contributions total of \$65,538 during 1973. The annual Fund—established in 1963—has since provided over \$400,000 in alumni gifts of cash or securities for academic (non-athletic) purposes at the University.

Bruce G. Bartell, Alumni Fund chairman, reported that 1,626 alumni contributed in 1973. The amount given was several thousand dollars greater than in any previous year except 1971 when there were two major alumni gifts and the Hervey Foundation Challenge.

Mr. Bartell expressed particular appreciation to the many voluntary workers who were responsible for the fine success of the 1973 Campaign.



**1973 ALUMNI FUND CHAIRMAN**  
Bruce G. Bartell

# The Alumni Fund Class Report for 1973

## 1973 ALUMNI FUND OFFICERS

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Vice Chairmen: Sanford C. Cox, Jr. ('51)  
Robert W. Summerford ('61)

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7 Mrs. Raiford Hair  
6 MRS. ROSITA M. HORWITZ  
7 Mrs. John W. Johnson  
11 Mr. & Mrs. Warren Lord  
11 Mr. & Mrs. James R. Martin  
11 Mr. W. F. Rike, Jr.  
11 Mr. & Mrs. Pollard Rodgers  
3 Mr. Alfredo Terrazas  
6 ING. SALVADOR F. TREVINO  
3 MRS. LEO HARDY WIPFF

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6 Mrs. May W. Barton  
5 MR. & MRS. DAN BOYD, JR.  
2 MR. DAVID L. CARRASCO  
Mrs. Mary L. Collingwood  
7 Dr. William G. Figueroa  
5 DR. & MRS. J. W. HARSHBARGER  
Mrs. Winifred E. Houser  
3 MR. & MRS. JACK L. HUNT  
2 Mrs. Margaret Caster Kidd  
10 Mrs. J. W. Long  
6 Mrs. Effie Medford  
7 DR. & MRS. RICHARD L. MOORE  
5 Mr. Clarence J. Oppenheim  
7 Mrs. Rosemary W. Paul  
11 Mr. & Mrs. D. L. Pillow  
4 Mr. Eliot H. Shapleigh  
3 Mrs. Jane Downey Spencer  
11 Mrs. Edythe Threadgill  
6 Miss Lelary Williams

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4 Mrs. Sam H. Boden, Jr.  
4 Mr. & Mrs. Earl Brown, Jr.  
2 Mr. & Mrs. W. C. Collins  
2 Mrs. Betty K. Crawford  
2 Mrs. Bettie K. Greffert  
Mr. & Mrs. Ralph H. Hellums  
4 Mr. & Mrs. T. B. LaRock  
2 Mrs. Clifford R. Marsh  
2 Mr. & Mrs. William L. Massey  
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3 Mrs. Richard H. Schneider  
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11 Mr. & Mrs. D. M. Van Doren  
3 Mr. Thurmond A. Williamson  
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9 Mrs. Wayne Champney  
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Mrs. Ross S. Evans  
3 Mrs. R. D. Lindner  
9 Dr. & Mrs. V. A. Miculka  
6 Miss Susie O'Neill  
11 Mrs. L. D. Pemberton

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- 9 Donors for \$1,954  
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MS. LEONA S. LAKEHOMER

- 4 Miss Dorothy Little  
7 Mrs. Sara Thomas Maddox  
9 Mr. & Mrs. Norman Rosen  
8 Mrs. Paul A. Rossbach  
3 Mrs. Leonard D. Simpson  
7 Mrs. Mollie Gossett Smith  
8 Mrs. William D. Tippin

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5 Mr. Rene Diaz  
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2 MR. & MRS. W. JOHNSTONE, JR.  
11 MR. BERNARD S. LAUTERBACH  
5 Mr. & Mrs. Louis L. Leeds  
11 MR. RICHARD W. MITHOFF  
7 Mrs. J. L. Morrill  
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MRS. AGNES PRUSZKA  
10 DR. WILLIAM J. REYNOLDS, JR.  
4 MR. W. E. (PETE) SNELSON  
2 Mrs. Jennie M. Whitney  
10 Mrs. Ira D. Williams

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2 Mr. Alex Aguirre  
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6 Mr. & Mrs. George L. (Jack) Richards  
8 MR. & MRS. WILLIAM C. SCHILLINGER  
2 Mr. Thomas P. Webb  
7 Mr. J. M. Whitaker  
3 Mrs. Thomas B. White

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- 52 Donors for \$1,375  
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AND FOUNDATIONS NOT LISTED IN OTHER SECTIONS OF THIS REPORT)

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  - 4 Mr. & Mrs. Malcolm H. Boswell
  - 10 Mrs. Alice Bourland
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  - 2 Mr. James H. Hamilton
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  - 7 Mrs. Allie Mae Harry
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  - 2 Mr. C. Ben Olney
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  - 5 Mrs. Glenn C. Warwick
  - 10 COL. C. FORREST WILSON

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  - 7 Mr. Humberto Berumen
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  - Miss Evelyn Wisdom
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### CLASS OF 1953

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- Mrs. Charles C. Anderson
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- 7 Mr. & Mrs. Jimmy Angelos
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- 9 Dr. & Mrs. Jacob B. Robbins
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- 11 Mr. C. Terrazas
- 6 Mr. William D. Thompson
- MRS. EMILY H. VOWELL
- 6 Owen D. Williams, M. D.
- 6 Mr. Johnny Yee

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- Mr. J. Mack Adams
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  - 9 MR. & MRS. WAYNE O. AHO
  - 10 Mrs. Harriet McDonald Allen
  - 6 Miss Irene Araiza
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  - 2 Maj. Jack A. Brandon
  - 2 Mrs. Carl D. Broom

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Numerals preceding names indicate number of consecutive years alumnus has given. Names of Matrix Society members are in capital letters.

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- 10 MR. & MRS. HUGHES BUTTERWORTH, JR.
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- 4 Mr. Julian Cardona
- 4 Mr. Jerry Collison
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- 6 Mr. & Mrs. Jerry T. Wright

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  - Mrs. Patricia J. Isbell
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  - 5 Mr. Fred M. Brewer
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  - 8 MR. & MRS. EDWIN J. BURNS
  - 4 Mr. & Mrs. Robert C. Butkus

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  - Sister Mary Visitation Biby
  - 2 Mrs. Alicia P. Bustamante
  - Mr. Leopoldo S. Calanche





Hughes Butterworth, Jr.  
1973 Matrix Society Chairman

# The Matrix Society

The Matrix Society increased its membership to 220 members and contributions to \$43,000 during 1973. The Society is an alumni organization with membership extended to faculty and staff, and each member contributes at least \$100 per year to the University. Gifts may be designated for any academic (non-athletic) purpose.

While the funds contributed are important to the University, Matrix directors believe the opportunities provided members to develop closer relationships with the University community are equally important. The Society sponsors several luncheons each year, and each includes candid discussion of University affairs with Dr. A. B. Templeton, University President, speaking at one or more of these informal meetings, at the invitation of the Society.

Hughes Butterworth, Jr., 1973 Chairman, will continue his duties in 1974, as will his Vice Chairman, James F. Elliott.

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JAMES F. ELLIOTT,  
Vice Chairman

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MORTON BLAUGRUND  
BRADLEY E. FISK  
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C.P.A.'s	Frederick W. Nelan	21 for 1,397

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JOSEPHINE CLARDY FOX by Ruby Burns. El Paso: Texas Western Press, UT El Paso, 1974, \$10.

When Mrs. Josephine Clardy Fox died in El Paso on May 11, 1970, at the age of 88, she had lived in seclusion (mostly in Providence Hospital) for some years, and most of her peers had preceded her in death. It was well known that she was very wealthy that she had no family, so it was natural that everyone—except, of course, her bankers, lawyers, and real estate brokers—should speculate as to the size of her fortune and how she would dispose of it.

Known to be an eccentric whose life had been spent in travel, patronage of the arts, and in compulsive buying of expensive clothes, jewels, fabulous and flamboyant hats, and in art objects (Meissen, Dresden, Sevres, paintings, urns, books, vitrines, tables, rugs) it should not have been surprising that she left all her worldly goods to one institution, the University of Texas at El Paso. She had not changed her will significantly in 25 years, and at the time she executed it, the then School of Mines was a struggling little college trying to gain a foothold for higher education—in El Paso. The now-thriving branch of the University of Texas System received the windfall of more than \$3,000,000.

It was natural, customary and laudable that the then President, Dr. Joseph R. Smiley, should wish to honor the benefactor in some significant manner, and he, perhaps conferring with others of the administration, decided that a book should be written about Mrs. Fox and commissioned Mrs. Ruby Burns to write it. It was a felicitous choice, for Mrs. Burns, long-time newspaper woman and editor, is a facile and charming writer and made the transition to the narrative medium and book-length project with dedication to fact and personal integrity. She had access to the vast collection of letters, documents, business transactions, and memorabilia of a lifetime—22 huge boxes of them—and her reference, acknowledgements and Index are professional. She also talked at length with friends and acquaintances of this legendary figure.

Josephine Clardy was the over-indulged only child of Zeno and Allie Clardy of St. Louis, who came to make their home in this western outpost when she was a baby. She was sent to finishing school, enjoyed voice lessons, travel and every social advantage that doting parents could provide. She was a great beauty and had many suitors, including the patient and persistent Eugene Fox, whom she married at 36, after 12 years of promises deferred. The

basis of her fortune derived largely from her father, who acquired much valuable property in lieu of attorney's fees.

She was not always affluent; she and her mother, both widowed fairly early, were extravagant and improvident enough that the Great Depression caused them to suffer grim deprivations for a time. Recouping losses and under the guidance of a very able realtor they became affluent once more, and it was during the years following hard times that Mrs. Fox accumulated many of the priceless treasures that made her home on Montana Avenue take on the appearance of a museum.

Mrs. Burns is both honest and compassionate in describing the personality of Mrs. Fox. In the first chapter she paints a picture of Mrs. Fox in middle life, her parents and her husband deceased. She was lying in bed one day suffering from a back injury, and she grew hungry. But there was no cook or maid, and no food in the house that could be heated in one of the three ovens in the big downstairs kitchen or in the stove of the small kitchen upstairs! She called a friend to bring her some lunch, and the friend, leaving, mused: "...nobody to love and nothing to eat. How dreadful to be so rich and yet so poor!"

Mrs. Burns says that she appears to have been sweet and happy when young, and attributes the change in her personality to the scar on one eye which greatly marred her once beautiful face. It had been an accident and had cost her the sight of that eye but she never spoke of it and her friends dared not.

In her closing remarks, Ruby Burns is very gentle as she tells about Mrs. Fox's change from Presbyterian to Catholic. She had loved the Sisters of the Catholic school she had attended as a child, and also her husband had been a Catholic. As she thought about human morality, she asked to be baptized and received into the Catholic church. Of this decision during her last illness, Ruby Burns wisely comments, "Who would care to ask through what portal she entered Paradise?"

This book was designed by Carl Hertzog, and the dust jacket carries a lovely portrait of the young Josephine, assuredly a beauty, in the Gibson girl tradition. The cover cloth, deep blue with violet-edged binding, is adorned with an open fan in gold, suggestive of one of her favorite possessions. The book has few pictures, the most attractive being three in color of treasures from the Fox Estate selected to adorn Hoover House.

—LAURA SCOTT MEYERS

**THE COATTAILLESS LANDSLIDE: EL PASO PAPERS ON THE 1972 PRESIDENTIAL CAMPAIGN**, Edited by Joseph M. Ray. El Paso: Texas Western Press, UT El Paso, 1974, \$5 cloth edition, \$2.50 paperback.

Located in the Southwestern tip of Texas and hundreds of miles from any other major urban area, El Paso cannot be considered a city vital to the campaign strategy of any national candidate. Na-

tional campaigns, however, are as vital to El Paso as they are to New York or Dallas. Dr. Joseph M. Ray and other UT El Paso faculty, familiar with both these facts of political life, have four organized symposia on Presidential elections to insure that the UT El Paso community be informed and feel a part of that national political orgy known as Presidential campaigns. *The Coattailless Landslide* is the "culmination" of the 1972 symposium.

Although the title of the volume and its contents are not directly related (as the editor himself states), the title does say something important about the 1972 election, and the collection is internally coherent. So be it.

The volume is divided into five sections, each preceded by a brief introduction describing its contents. In addition to the expected academic analyses of the campaign and the Presidency, the collection also includes speeches delivered in El Paso by three national politicians (Spiro T. Agnew, R. Sargent Shriver, and John Schmitz) as well as transcriptions of panel discussions by "experts, practitioners" and students. The collection also includes many of the better political cartoons of the campaign.

The major value of the collection is that it reflects the nature and style of the 1972 campaign. The speeches by the politicians, for example, remind us once again of the sad state of American political life. Spiro Agnew, stumping in El Paso for Senator Tower, tells us that he has "always considered frankness and consistency essential to public life" and that "We should be a nation and a people united in purpose and ideals." Sargent Shriver, clad in the rusty armor of Camelot and astride a political nag, carries the stained banner of traditional politics; acknowledgments to local politicians; promises of party victory; an indictment against the incumbent. How predictable, how shallow, how characteristic. John Schmitz somewhat accurately, if unknowingly, evaluated his opposition. "The incumbent, Richard Nixon... has broken virtually every campaign promise he has made..." "George McGovern would at least wake up the Congress, and they might become something other than an applause and cheering section for policies laid down by the executive and judicial branches of the government."

As is typical of collections such as *The Coattailless Landslide*, the scholarly papers included vary greatly in quality, but this again is an accurate reflection of the academic community's inability to analyze and evaluate our contemporary situation. Dr. Hoxie's "Comments on the Presidency" was tailored to an undergraduate audience, but undergraduates surely deserve more than Dr. Hoxie gave them. Prof. Harding tells us that American voters "neglect to answer that most critical and crucial question—who has fully demonstrated in the speaking campaign that he is the better equipped, by experience, by personality, and by leadership to become President..." There is, however, no necessary relationship between oratorical skills and governing abilities, and Prof.



Harding's fifteen-item scale for evaluating speakers is therefore of dubious value as well as lacking in validity.

Other articles, however, are worthy of serious attention. Prof. Shannon's discussion of campaign financing is insightful and documents the historical and contemporary dimensions of this issue. Prof. Ray's rating of Nixon's performance as of 1972 highlights clearly the strengths of the incumbent: although lacking in charisma and substantive accomplishment, Nixon "seems to have enough moxie to take all." Prof. Cook's penetrating if extremely pessimistic analysis of the body politic is an invaluable addition to the collection. Dr. Rostow's analysis of the election as "another deviating election" and Prof. Cumming's discussion of public opinion polls are also of value.

In sum, *The Coattailless Landslide* is a useful collection because it so resembles the 1972 election: the shallowness of the campaign, the refusal or inability of many academics to come to grips with the changes around them; the public's lack of understanding (as evidenced in the panel discussions) of the nature of the political system. These and other aspects of the 1972 campaign are made manifest in this reader.

—RUDOLPH O. DE LA GARZA

**JUH: AN INCREDIBLE INDIAN** by Dan L. Thrapp. El Paso: Texas Western Press, UT El Paso, 1973, \$3. [Southwestern Studies #39.]

Apache history is so nebulous as to be virtually non-existent; thus it takes a courageous practitioner to delve into this tribe's past for an account of anything approaching reality, but Dan L. Thrapp, a journalist for the Los Angeles *Times*, has tried it with his monograph.

He has been successful in bringing together most of the information available from white men's printed sources concerning Juh's life, but many of these are highly suspect. For example, Thrapp cites one book—*I Fought With Geronimo* by Jason Betzinez, helped by Wilbur S. Nye and published in 1959 by Stackpole—on 12 occasions, and Eve Ball, a New Mexico writer, in five other instances.

How credible these sources are is indeterminate by my own personal knowledge, but when Betzinez's book came out, Bill Wallace, whose family has owned or managed the Corralitos Hacienda for well over a century and its members have had first-hand experiences with Apaches of various sub-tribes, told me the Betzinez book was not only inaccurate, but purposely untruthful.

Wendell Chino, a leader of the Mescalero Apaches, once told me he had "given up" on Eve Ball as an accurate historian of his tribe.

So, what do you have? You have a 44-page monograph which at least pulls the Juh references together under one cover, but it is the desire of many in the Southwest to see a whole new evaluation done on the Apaches. Where to start?

Wallace has told me that for time past memory the Apaches met periodically on

a mountain near Janos called Carcaj (meaning "quiver" or container for arrows, in Spanish) to plan out and design strategy for their raids. These meetings were attended by representatives of the dozen or so sub-tribes and their raids were coordinated and well planned, not just a helter-skelter series of actions thought up at the last minute.

Many residents of Janos are descended from these Apaches and would be a source of information if the researcher spoke Spanish or Apache, and could stay alive long enough to learn something.

—WILLIAM C. MCGAW

**THE PERMIAN BASIN** by Samuel D. Myres. El Paso: The Permian Press, 1973, \$15.

Comparable to *Gone With the Wind* in length, Samuel D. Myres' giant work on the Petroleum Empire of the Southwest runs to 708 pages and narrates, with a wealth of illustrative materials, the stupendous Era of Discovery in oil and gas by pioneers of that region. Once the West Texas oil fields flamed to the sky, with gasoline selling for decades at 15 or 20 cents a gallon. Oilmen made fortunes and lived like the barons of old. They earned money galore and spent it with wise heads and generous hands. They endowed great institutions, mainly The University of Texas, and hired high-priced professors from the North and even lecturers from abroad with yet stranger accents. And what a gallery of hardworking individuals those Texans were who cut into the bowels of the earth, principally native Southwesterners of course, but a small vivid sprinkling in early days of outlanders too. There were dons from Spain, lairds from Scotland, herrenfolk from Germany, and yet another immigrant or two from the then distant Czechoslovakia and boundless Russia—adventurers like Benedum the Wildcatter, pioneers like Coronado full of "arrogance and greed," and settlers like Shannon, the stout Scot.

Dr. Myres, already famous for his editorship and deep diggings into the basic and rare facts, unfolds in his newest mammoth-size publication, not simply resistless documentations in depth, but a humane epic of human struggles, dreams, disasters, and triumphs. The Permian Basin dramatis personae have shaped and influenced the destiny of the American Southwest for all time to come.

Tomorrow must issue from today and yesterday; and Dr. Myres (B.A., M.A., Ph.D., LL.D.), formerly professor of political science at UT El Paso, looks into the future to program yet another volume in his significant series, a super plan that will supercede in quality, scope, and length even a peerless masterpiece like the story of the Richfield Oil Corporation told matchlessly by the late Charles S. Jones in *From the Rio Grande to the Arctic* (1972), where Robert O. Anderson labored stalwartly as co-worker. Dr. Myres had assistance too, aid from veteran writers, designers, artists like Bertram Wright, Carl Hertzog, and José Cisneros. A big book by big men on the modern

world's biggest business—petroleum to propel you through the air, under the water, on the land; and natural gas to cook your food, keep you warm, light your lights—this book on the rich Permian Basin, on Midland and Odessa, speaks vividly, citing heroic deeds of stalwart Southwesterners of the exciting region, dilating on their achievements outside the petroleum industry, and referring to a Permian Basin Museum, Library, and Hall of Fame, and on and on.

A major achievement by any standards, S. D. Myres' expansive analysis does not deal with today's collapse, namely the quenchless 1974 Energy Crisis. But the distinguished author-editor-investigator, a fabulous West Texan himself, knows that the forbidding color and nauseous odor of oil symbolizes much more than "Black Gold." Tragedy comes too, comes to those who oilless must pound the pavement, walk the beat, crawl upon the earth. Oil also brings grief to the rich and to their heirs, breeding family division and pitting brother against brother. Worse yet, oil has turned progeny against their parents, avaricious children accusing their own mama of insanity. Before her death, one such mother said: "Oil has been a curse to me. I wish they had never found a drop of oil on my ranch. It has brought me nothing but trouble and sorrow, definitely set my children against me and made me poor again," [page 477].

And so too the days of wildcatting, of boomtowns, of millionaires created overnight are "gone with the wind."

—HALDEEN BRADY

**BORDERTOWN REVISITED** by Frank Mangan. El Paso: Guynes Press, 1973, \$8.

As one who believes strongly in giving credit where it is due . . . In 1964, shortly after his *Bordertown* was published, I stood with Frank Mangan down by the alligator pond at San Jacinto Plaza and, having read his book, said: "Frank, you are a fine writer. You ought to start work on a second volume of these sketches about El Paso. Call it 'Son of Borderland.'" I have a witness to this scene too. Conrey Bryson was there. Well, Frank Mangan forgot who suggested it but a decade later, toward the end of last year, the present book was issued by Guynes Press of El Paso. It is an updated, revised and added-to *Bordertown* which means it is very likely the best and most enjoyable breezy little handbook on what El Paso and the Border was and is that you can find anywhere.

Let us take one short passage. Why did people come to The Pass to begin with? Mangan says "They came into the pass like buckshot through a funnel. And they came for many reasons. Some were simply lost in the desert when they stumbled into the narrow green strip of oasis where the Rio Grande curves between the borders of two nations. They came to raise cattle on the sparse bunchgrass. They came to build railroad tracks and decided to stay. They came to drink cheap liquor and gamble and raise hell when the rest of

(Continued on page 17)



# POWER TO THE PEOPLE...

by C. Sharp Cook

## OR MAYBE NOT

*C. Sharp Cook is an acknowledged expert on the world's energy resources and their relationship to America's economic growth and human welfare. In this article he explains that the search for additional sources of energy is only part of the problem of satisfying future energy needs. Cook is professor of physics at the University of Texas at El Paso. He received his A.B. degree from DePauw University and his Ph.D. degree from Indiana University, subsequently taught at Washington University (St. Louis) and the University of Santa Clara, and for 17 years was a scientist at the U.S. Naval Radiological Defense Laboratory in San Francisco. He also spent one year as a Fulbright professor at Aarhus University in Denmark. He has published articles in several scientific journals and contributed to Van Nostrand's Scientific Encyclopedia and The Encyclopedia of Physics.*

The people of the highly industrialized nations of the world have developed a strong dependence on the instantaneous availability of numerous types of energy sources. For example, a recent curtailment of natural gas supplies to the electric generating stations at San Antonio and Austin, Texas, clearly disrupted the normal mode of life in those cities. This year, for the first time, people are experiencing nationwide shortages of gasoline for their automobiles. The standard of living within the United States and certain other countries, such as Japan and the countries of western Europe, has been closely related to an ever-increasing utilization of available energy resources.

The rate at which we are using our energy resources has been reasonably well documented. The accompanying chart plots the annual use of energy in the United States from all sources for the 60-year span between 1910 and 1970, with energy being measured in quadrillions of British thermal units (Btu's). A Btu is the amount of energy needed to raise the temperature of one pound of water by 1°F. A kilowatt-hour of energy amounts to 3413 Btu's. Note the slight increase during World War I and the decrease during the depression years following 1930. However, no decline followed World War II but instead a continuing rise occurred, until we are now using more than three times the amount of energy we did in 1940. This spectacular rise can easily be one of the basic causes of our current energy problem. Although no one can imagine the magnitude of the almost 70 quadrillion Btu's of energy that we used in 1970, its enormity can be partially realized if translated into other terms. For example, it is equivalent to the energy that would be released by a daily detonation of about 3,000 nuclear weapons of the Hiroshima type.

This tremendous rate of consumption of energy resources has had its effect, especial-

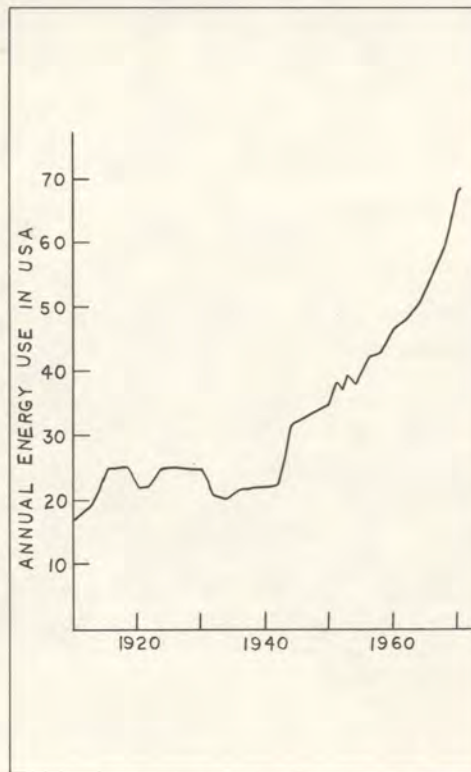


Chart of annual use of energy in the U. S., as discussed in the text.

ly since the supplies of fossil fuel are finite. M. K. Hubbert, of the U. S. Geological Survey, has indicated that the world's population has now consumed about 2 percent of the initial minable reserves of coal and lignite and between 10 and 15 percent of the pumpable crude oil. While these percentages are not extremely large, they clearly indicate that we are consuming our fossil-fuel supplies at a significant rate.

If we continue to increase our use of energy resources at rates comparable to those of the recent past, our supply of oil will be exhausted in another 50 to 75 years and our supply of coal in about 300 years. Since 300 years extends well beyond our lifetime, the contemplated exhaustion dates may appear to be rather far in the future. However, if we look at recorded history, our viewpoint changes considerably. The U.S. will celebrate its 200th anniversary as a nation in 1976, but it is really a relatively new country compared to most European countries or, for example, Iran, which celebrated its 2,500th anniversary in 1971.

The urgency becomes more apparent when one considers that the sources of energy used in the U.S. in 1969 were: petroleum, 38 percent; natural gas, 37 percent; coal, 21 percent; waterpower, 4 percent; and nuclear, about 0.2 percent. Although considerable publicity has been given to other possible sources of energy, such as nuclear fission, nuclear fusion, geothermal energy, solar energy, and tidal

power, almost 95 percent of our energy still came from fossil fuels during 1973.

Meeting future demands for energy will be an increasingly difficult, if not impossible task. We are already experiencing situations in which the demand for fossil fuel exceeds the supply. One way to alleviate this problem is simply to look for additional supplies of fossil fuel and for other sources of energy. The difficulty with this approach is that available amounts of fossil fuels are finite and the development of new sources of energy usually requires long periods of time for research, development, testing and evaluation before these new sources can make significant contributions. Another approach is to ask ourselves whether we really need all this energy and if perhaps we cannot solve our problems, at least temporarily, through use of energy resources only when actually needed.

### PRIORITIES

A basic problem related to setting any sort of controls on the use of energy is that each energy-dispensing company is in business to sell its product, since profits depend on sales. As a result the electric company competes against the gas company and each aggressively advertises to convince buyers of new homes, for example, that their type of power is best. To induce home buyers and builders to use gas, the suppliers of this commodity sometimes point out that home users of gas are not interruptible and, if there is a shortage, only industrial users will have their supply curtailed. Whether this policy is entirely reasonable may be questioned for, if an individual is not employed because the industry for which he works cannot be supplied with the necessary fuel to continue its operations, he may begin to wonder how he is going to pay for that supply of gas that is flowing into his home. Some advertising tries rather subtly to shape opinion. For example, an advertisement in the January 24, 1972 issue of TIME magazine makes it appear that, unless power companies rapidly build more generating plants, the housewife may have to start washing by hand rather than using her electric washing machine, or hospital elevators may stop running. There was no mention in the advertisement that it might be more feasible to turn off the millions of kilowatt hours that are consumed by all the superfluous lights used in advertising rather than stop a washing machine or an elevator in a hospital.

Oil companies and automobile manufacturers also compete with each other to attract motorists as customers. Is the competition really in the best interests of the general public? An interesting study regarding priorities has shown that, if private automobiles were used only for trips



exceeding three miles in length, the annual consumption of fuel by automobiles in the U.S. would be cut by 50 percent. The problem here is how to induce car-owners to use public transportation, if it exists, or a bicycle which is much healthier, rather than jumping into the family car to run down to the local store or over to see a neighbor. Does the time saved have such a high priority relative to the race toward fuel depletion and greater atmospheric pollution?

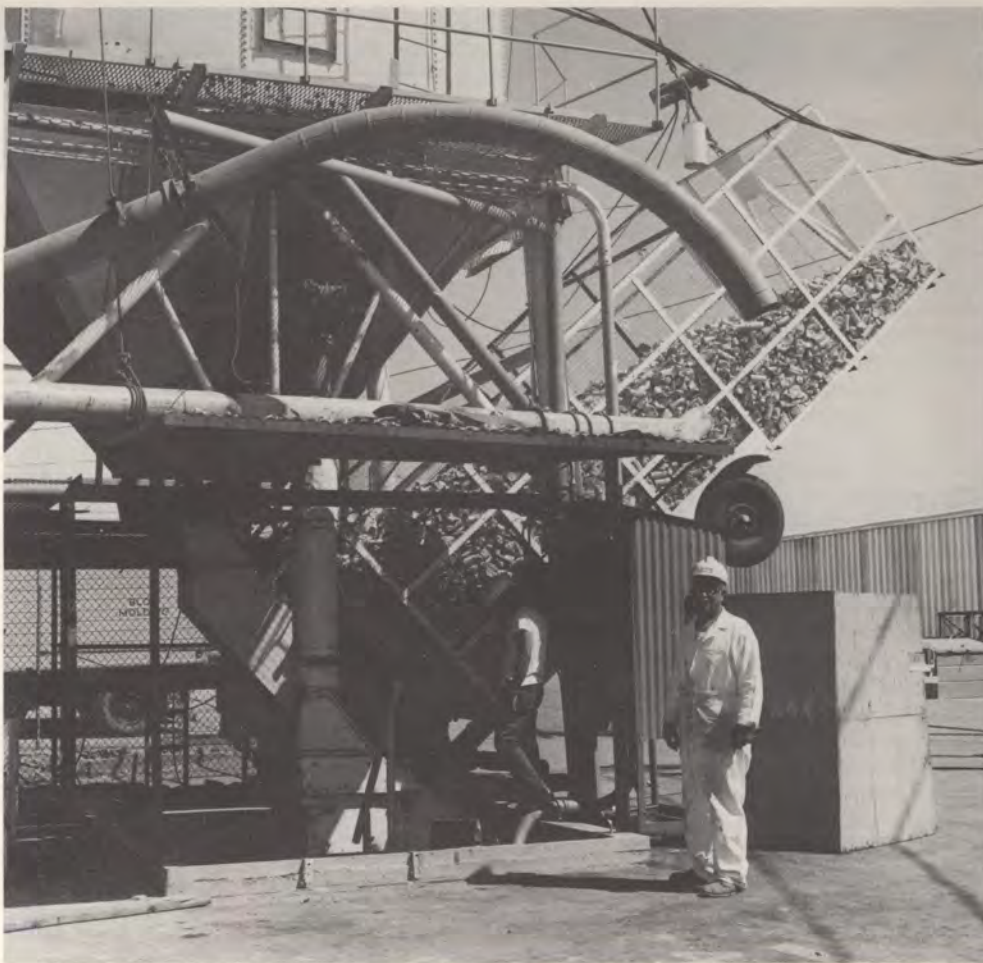
Many other questions of priorities can also be raised. We have built a society that operates on the assumption that energy is abundant. When the supply of energy is short how do we determine who gets the available supply? Someone will surely be hurt by any system of allocation.

### EFFICIENCY

When the growing shortage of fuel becomes sufficiently critical, conservation is possible through more efficient use. Unfortunately, there has been only minimal effort in recent decades to develop more efficient uses of fuel. Much wastage can be traced to the habits of the average citizen, even though he may not be aware of his guilt. He is willing to use large quantities of energy for a slight convenience, as long as the cost is distributed over a period of time. An example is the production of throw-away aluminum cans, largely for the beer and soft-drink industries. The energy required to transform enough bauxite into aluminum to make one can is approximately six-tenths of a kilowatt-hour, enough energy to keep a 100-watt lamp burning for six hours. Recycling costs are only one-third those of production directly from bauxite and thus, if aluminum cans could be recycled, considerable savings of energy resources would be possible. However, only a very small fraction of the cans are recycled—less than 10 percent.

Other ways of being more efficient in our use of energy resources are possible, many of which may at first appear to be completely insignificant in terms of the overall power picture since they involve such a small fraction of the total power consumption. However, when all the households or industries in which such savings are possible are added together, some of these small items amount to a large number of kilowatt-hours. An example is the self-defrosting refrigerator, which uses almost twice as much electric power as an ordinary refrigerator. Another is fluorescent lighting, which is about four times as efficient in the production of visible light as the ordinary incandescent light bulb. Some situations, however, cannot be so clearly resolved. A California official for example, has suggested that night sporting events be banned, since the lights used for these events use huge quantities of power. However if each spectator went home and turned on his television set, another large user of power, there might not be any savings at all from such a decree.

Another example that affects many homes is the ineffective use of insulating



Used aluminum beer cans being unloaded at the Coors distribution center in El Paso to be prepared for recycling.

material to prevent the flow of heat through walls and roof. Almost all homes and apartment buildings could be better insulated to reduce the amount of energy consumed for space heating and air conditioning. The problem here, as in many other situations, is that gradual payment of a large fuel bill is not so severely felt as initial capital outlay to have the building properly insulated at the time of its construction.

Solid waste accumulates in large amounts wherever people are located. Since much of it is burnable many cities once disposed of it by open-air burning in dumps. But because open-air burning produces large quantities of air pollution, cities are turning to disposal by the sanitary landfill method. However landfill operations require huge areas, and available land is becoming scarce. Unfortunately, neither type of disposal makes use of the energy that is available—often in appreciable quantities—in any collection of burnable waste. Only recently have attempts been made to make use of these burnable wastes in a practical manner. For example, in April 1972 the Union Electric Company began accepting shredded garbage and trash from the city of St. Louis for use as supplementary fuel at its Meramec electric generating station. The project, which is sponsored in part by the Environmental Protection Agency, is expected at capacity to burn about 300 tons of refuse each day.

Another source of energy can be developed from more efficient use of existing

resources of animal wastes, most of which are currently considered to be pollutants. Animal waste and water spontaneously yield methane (natural gas). H. L. Bohn of the University of Arizona has calculated that a feedlot of 100,000 cattle could produce enough methane to supply the natural gas needs of a city of 30,000 people and that there exists enough such waste in the U. S. to supply all its current natural gas needs. However, other people believe that Bohn's estimates are far too optimistic. Methane can also be used to power automobiles. British inventor Harold Bate has developed a system that uses methane gas distilled from the leavings of a neighboring pig farm to run his 1955 model car. He estimates that the methane developed from approximately 100 pounds of manure is equivalent to one tank of gasoline.

Many other examples can be found of ways in which we can be more efficient in our use of energy resources. Two such examples involving conversion of fuel to electrical energy are magneto-hydro-dynamic (MHD) techniques and fuel cells. Other savings may be possible through use of superconducting materials for electrical transmission lines; enormous amounts of electric current could then be transmitted with almost no loss of energy. However, as with any unknown process or procedure, much more research and development effort is necessary before any of these ideas can be brought to commercial feasibility.



## ECONOMICS

A review of the past century reveals that we have been able to get tremendous amounts of energy at relatively little cost. Future costs are going to be much higher, since acquisition of fuel becomes increasingly more expensive as we deplete sources that are easily accessible. For example, offshore oil production and recovery of oil from the fields of northern Alaska are simply more expensive than operations that pump oil from beneath land in the 48 contiguous states. Although the U. S. has as much or more oil tied up in oil shale in Wyoming, Utah, and Colorado than the known oil reserves under the Arabian peninsula, the costs of recovery of that oil are tremendous, at least three times the current average costs of oil production in the U. S.

The reduction of pollution is also costly. Elimination of the emission of sulfur dioxide and other pollutants from the exhausts of industrial plants costs millions of dollars for every installation. Such costs are recovered only by passing them along to the consumer of products produced by the plant. A recent estimate indicated that pollution controls on automobiles will add about \$400 to the price of every new car. Furthermore, these controls generally reduce the efficiency of automobile engines, and as much as 35 percent more fuel may be necessary to meet pollution standards set for 1976. Cooling towers, often needed to control thermal pollution, are huge and costly. The capital investment necessary when electric utilities are required to install them, plus other pollution controls, can only add to the cost of electric power. A. J. Wagner, chairman of the board of directors of the Tennessee Valley Authority (TVA), estimates that, to meet all existing and planned state and federal requirements for environmental protection, a plausible annual cost to the TVA system alone is \$600 million. TVA's current annual revenue is about \$600 million, so the cost of power may actually double just to reduce pollution to legal limits.

Psychologically, the economic problem may be the most serious one. Mere technological developments will solve most of the other difficulties. However, people have been accustomed to using all the energy they want at an extremely small cost. Explaining the rising costs of energy — some of which are here now — to an unhappy and frustrated public will be a real challenge both to industrial public relations officers and politicians.

## FUTURE SOURCES OF ENERGY

Only three basic sources of energy are available: solar energy, nuclear energy, and a small amount of mechanical energy associated primarily with the relative motions of the moon and the earth.

Almost all the energy we are now using or have used in the past is solar energy. Besides the small amount of direct conversion of solar energy that we are now attempting, wood and all fossil fuels have been produced as a result of the growth of cells that received their energy, either

directly or indirectly, from solar radiation. Hydroelectric power is available only as energy from the sun evaporates water. Windmills can be operated only because solar energy produces disturbances in the atmosphere of the earth that cause the air to move relative to the surface of the earth.

When we speak of nuclear energy, most people think of the splitting of uranium, technically known as nuclear fission, which is used in all nuclear power stations now in operation. However, it is also possible to obtain energy from the merging of a few types of atomic nuclei. This process, known as fusion, is responsible for the energy we get from the sun, where hydrogen nuclei are continuously coalescing to form helium nuclei. It is also responsible for the energy released by thermonuclear weapons, sometimes known as hydrogen bombs. Although nuclear fusion may be the ultimate answer to our energy problems, its use commercially is still very far away. The problem is that no one has been able to sustain nuclear fusion at less than explosion levels for a long enough time to get more energy out than was injected to start the process. Although a number of fusion reactions are possible, the ultimate hope is to develop a reactor that fuses two deuterium (heavy hydrogen) nuclei into a single helium nucleus. Having this ability to burn deuterium would then allow mankind to use the deuterium in the oceans, which is adequate to supply our energy needs for more than a million years. Unfortunately, we still

have not demonstrated that a practical solution is feasible. After such a feasibility demonstration, many years will be needed to develop a commercially usable reactor.

Even though nuclear fission is currently being used to generate a limited amount of our electric power, it also has a number of problems that must be overcome before it can become the abundant source of energy that once was envisioned. First of all only three nuclear species have the characteristics needed for fuel in nuclear reactors. These fissile nuclides, as they are called by nuclear scientists, are uranium-233, uranium-235, and plutonium-239. Of these three only uranium-235 is found in nature and is the only one now being used in significant quantities in reactors to supply energy for electric generating stations. Because only 7 kilograms of uranium-235 can be found in every 1000 kilograms of uranium extracted from the earth, available supplies of fuel for nuclear fission reactors are rapidly being depleted. Essentially all the remaining 993 kilograms are uranium-238. However, the situation is not as bleak as might at first appear, since uranium-238 in a reactor can be converted into plutonium-239. Similarly thorium-232, which is also found in relatively large quantities, can be converted into uranium-233. If either thorium or uranium can be converted at the same rate at which the fissile nuclides of uranium or plutonium are being burned, as much fuel is being produced as is being burned, a very remarkable situation.



The Trojan nuclear power station near Portland, Oregon. Compare the size of automobiles in the parking lot with the size of the cooling tower. The nuclear reactor is located in the domed structure near the center of the picture, under the crane. Although cooling water comes from the Columbia River, no waste heat is dumped back into the river; all goes through the cooling tower. This tower alone cost \$8 million to construct (Courtesy Portland General Electric Company).



A reactor in which more nuclear fuel is produced than is consumed is called a breeder reactor. Long ago breeder reactors were shown to be scientifically feasible; only engineering problems applicable to the development of a working system still must be solved. R. D. Nininger, of the U. S. Atomic Energy Commission, has compiled information about available resources of uranium and thorium and has concluded that if the breeder reactor is developed and used, we have adequate resources to provide the electric generating needs of the U. S. for a period of 1,000 years or more. However, many problems still must be solved before nuclear fission can become the standard source of power. Such problems include

hydroelectric sources could produce a much larger fraction. The increase in overall use of electric power in the U. S. was so great during the past few decades that the fraction of electric power produced by hydroelectric means fell from 35 percent in 1930 to only 20 percent in 1970. Yet in 1970 hydroelectric power production alone exceeded the total production of electric power in 1940 and was more than two-thirds the total production of 1950.

Direct conversion of solar energy offers almost unlimited theoretical possibilities. When the sun is directly overhead the power reaching the earth's surface is more than one kilowatt per square meter. At this rate the power incident on a region

Since such a project becomes a huge engineering feat, its success is still uncertain. However, use of solar energy by individual homes and buildings appears very feasible and could be developed with little effort.

Prior to the rural electrification program, windmills were used for power on many farms and ranches of the U. S. Windmills have been used for an even longer time in Holland and Denmark. In many parts of the U. S. prevailing winds blow a sufficiently large percentage of the time to make windpower feasible. Again, as in the case of direct solar conversion, use of windpower appears most practical on an individual house or building basis rather than in any system that tries to use a central generating station concept.

In some regions of the world the flow of tides contain large quantities of energy, which result from gravitational interaction between the moon and the rotation of the earth. To make effective use of the tides as a source of energy one must have an estuary into which water flows and across which an electric generating station can be built. The total energy that can be harnessed depends on both the height of the tide and the total amount of water flowing through the mouth of the estuary.

At the present time only one large-scale tidal power plant exists, completed in 1967 across the mouth of the La Rance estuary, near St. Malo in France. The capacity of this plant is 240,000 kilowatts. For the North American continent a proposal was made in the 1920's to use Passamaquoddy Bay, on the U. S.-Canadian border between Maine and New Brunswick, as a source of tidal power. It's potential capacity appears to be about ten times that of La Rance. However, a joint U. S.-Canadian commission which studied this project reported in 1961 that it was economically unfeasible since the amortization of initial costs would have required a charge for electric power that would not have been competitive with power supplied by more conventional means. In general, the locations at which tidal power can be developed are limited so that even though tidal power possibly can supply significant amounts of power within regional areas, it will never be more than a minor source of energy.

Geothermal energy is possible because of the hot interior of the earth. This heat most probably is caused by a form of nuclear energy, the decay of naturally-occurring radioactive substances in the earth. To use it commercially requires that the geothermal heat interact with water in the earth's crust to form steam or hot water, which must then find its way to the surface. Natural ejection of steam occurs only rarely, the best known area in the U. S. being Yellowstone National Park. Only at the Geysers, north of San Francisco, has a commercial electric generating station using geothermal energy been developed in the U. S. This plant now develops slightly more than 400,000 kilowatts of electric power and ultimate plans are for about 1,000,000 kilowatts. Other geothermal electric generating stations have been developed in Mexico, Italy,

*(Continued on page 17)*



Part of the Geysers geothermal power station north of San Francisco  
(Courtesy Pacific Gas and Electric Company)

questions concerning the safety of nuclear reactors, the disposal of radioactive wastes produced by these reactors, and security measures needed to prevent unauthorized use of fissile materials for the production of nuclear weapons.

Whereas the relatively easily available fossil fuels represent energy accumulated from ancient solar radiation, energy from current solar radiation is not so easily harnessed. However, if we are willing to accept some changes in our way of life, current solar radiation may be able to supply a large fraction of our energy needs.

At the present time approximately 20 percent of the electric power generated in the U. S. is produced by hydroelectric means, which is possible only because of the effects of solar energy. If we were not so gluttonous in our use of electric power,


having an area approximately equal to the city of El Paso is equivalent to the total power producing capacity of all the electric generating stations in the U. S. However, the sun is never directly overhead in the U. S. and sometimes there is cloud cover, so the average amount of power available is considerably less than one kilowatt per square meter, but still extremely large overall compared to any other source of energy.

Over the past several decades a few ingenious individuals have put solar energy to work in heating their homes or providing hot water, and have been very successful in this undertaking. Some people have suggested huge solar farms for collection of energy from the sun to operate central generating stations in much the same manner as fossil fuels now supply the needs of electric generating stations.



# Alum Notes

Compiled and Written by  
Jeannette Smith



Although **John E. Shryock** ('50) is a fully commissioned missionary with the United Methodist Church, he says he should be addressed as "Mr." instead of "Reverend" because he is a layman working in the field of administration. He writes from Salisbury, Rhodesia, where his duties, he says, "include a bit of accounting, reporting, auditing, legal work and any other task that might come under the heading of administration." And he adds, "It is a real privilege to be one of the three missionaries on the office staff of Bishop Abel Muzorewa, the outstanding African leader in Rhodesia today."

Mr. Shryock encloses in his letter a clipping from the New York Times, dated May, 1971, that describes a dispute between the American Methodist Church in Rhodesia and various mining companies as an "operation like something from a gold rush western." It seems that the mining companies had prospecting rights to develop a rich strike of copper on some mission land on which is built a church, school and hospital. To forestall the plan, the American Methodist Church marked off the land with pegs and registered a claim to copper mining rights.

Mr. Shryock post-scripts the clipping by saying an agreement was finally reached in the spring of 1972 whereby a mining company is now paying the AMC \$1,050 per month just for the option to work a mine on the mission land, and as of November, 1973, "they have not even drilled the first hole yet but when they start mining, we (the Church) get five per cent of gross which will run into six figures over a period of 10 years . . . even though our claims cover only 2,600 feet of the ore-bearing strip."

## CLASS OF 1925:

**Bert R. Haigh**, Outstanding Ex-Student in 1955, recently was presented a certificate and pin in recognition of his 50 years' membership in Masonic Fraternity Lodge 1111. The pin was placed in his lapel by **Odie W. Pearce** (1929 etc.), past master of El Paso Lodge 130, and **Col. (ret.) O. Paul Lance** ('47), 40-year member of Lodge 130.

## CLASS OF 1934:

**Mrs. Marjorie Heyser**, formerly Coordinator of Technical Services for the El Paso Public Libraries, has been named Assistant Director of Libraries.

## CLASS OF 1940:

**Ezequiel Garcia Elizalde** is president of El Zafiro Jewelers in Juarez, and a member of the El Paso Archaeological Society.

## CLASS OF 1945:

**Mrs. Robert F. Haynsworth**, formerly Hazel Cooper, has been named First Lady

of El Paso for 1974 by Beta Sigma Phi Council. She was selected for the honor from a list of candidates submitted by local women's civic and social organizations.

## CLASS OF 1948:

**Dr. Jacob R. Morgan**, a heart specialist recently retired from naval medical service, is director of the Texas Tech University School of Medicine Regional Academic Health Center at Thomason General Hospital. Dr. Morgan will supervise training of medical students, interns and residents in medicine at the local hospital.

**E. F. Bohmfalk** is associated with the DuPont Co. in Waynesboro, Virginia.

## CLASS OF 1950:

**Dr. Alma Barba** is back on the UT El Paso campus as Program Development Specialist of Teacher Corps, and recently earned a doctor of education degree from New Mexico State University.

**Philip D. Stoner** is a certified public accountant and officer-stockholder in the accounting firm of Lipscomb, Cox, Colton, Stoner and Co., also a member of the board of trustees of the Ysleta Independent School District.

## CLASS OF 1951:

**U.S. Army Col. James D. Thomas** is Inspector General at White Sands Missile Range and was recently awarded the Legion of Merit for duties performed as Chief of the Air Defense Division, JUSMAG-Korea and as the senior advisor to the Republic of Korea for Air Defense.

**Col. Ken Chesak** and his family are in Ft. Belvoir, Virginia, where he is assigned to the Operational Test and Evaluation Agency.

## CLASS OF 1952:

**Gus Rallis**, a local attorney, recently was elected president and chairman of the board of Pan American Savings and Loan Assn.

**Dr. Werner Spier**, obstetrician and gynecologist, has been named Chief of the Medical and Dental Staff at Hotel Dieu Hospital.

**Don W. Reagan**, manager of El Paso Natural Gas Building Co., has been elected president of the Building Owners and Managers Assn. of El Paso.

**Col. Raul A. Garibay** is an Army Attaché to the American Embassy in Montevideo, Uruguay.

## CLASS OF 1953:

**Rosendo Gutierrez** has been elected to serve on the Phoenix, Arizona City Council.

**George H. Clements** and his family reside in Dallas where he is salesman for National Chemsearch Corp.

## CLASS OF 1954:

**Lt. Col. George R. Giles** is attending the U.S. Army War College at Carlisle Barracks, Pa. Col. Giles has two awards of the Distinguished Flying Cross, the Bronze Star Medal, the Meritorious Service Medal, 13 awards of the Air Medal, the Joint Service

Commendation Medal and the Army Commendation Medal.

## CLASS OF 1955:

**Robert W. Garcia**, a federal probation officer in El Paso's Federal District Court, recently was presented the Richard F. Doyle Award as the top probation officer in the United States. Garcia received the honor in recognition of his work in opening Alternative House in June, 1972, a halfway house for adult male offenders. Since its opening, Alternative House has helped to prepare 80 parolees to start new roles in society after their prison releases.

**Lloyd B. Harris** has been appointed president of Mission Savings and Loan Assn. in El Paso.

**Dr. Ray E. Santos**, a surgeon in Lubbock, has been appointed chief of staff for the new El Paso Veterans Administration Outpatient Clinic scheduled to open in late spring or early summer.

**Mrs. Alicia Moya**, third grade teacher at Cedar Grove Elementary School has been named Teacher of the Year by the Ysleta Teachers Assn.

## CLASS OF 1956:

**John Ross**, formerly first assistant City Attorney, has been appointed City Attorney, the post having been vacated recently by the death of Mr. Travis White.

## CLASS OF 1958:

**Gilbert Rodriguez** and his family reside in Joplin, Mo. where he is Chief Engineer for AZCON Corporation. His wife is the former **Letitia Ornelas** who attended TWC from 1954-57.

**Mike Thompson**, local attorney, has been elected president of the El Paso Trial Lawyers Assn. His wife is the former **Gloria Willis** ('59).

## CLASS OF 1959:

**Ralph Miranda**, local attorney, is director of the El Paso Legal Assistance in conjunction with the Military Legal Corps.

**Mrs. Edward Canfield**, formerly Karen Jean Masterson, teaches a class of five children who fall into the category of "autistic and autistic-like children." The class is part of the "Help Is At Hand" project of the San Jose (Calif.) Unified School System.

## CLASS OF 1960:

**Melchor T. Ontiveros Jr.** is Engineering Services Project Manager for Kentron Hawaiian Limited Co. at the Johnson Space Center in Houston.

## CLASS OF 1961:

**Harry M. Kaufman** is associate director of the Drug Regulatory Affairs Division of Pfizer Pharmaceuticals, N.Y., and has an intriguing Westport, Connecticut, residential address—Six Rabbit Hill Road.

**Karl Guy Goodloe** (M.S. '73) is a Registered Professional Engineer and employed



by the U.S. Civil Service at White Sands Missile Range.

#### CLASS OF 1962:

**Richard C. Alsup** is vice president and general counsel for Houston Natural Gas Corporation and a member of the American, Texas, and Houston Bar Associations.

**Dr. Frank H. Besnette** is dean of the College of Business Administration at Northern Arizona University in Flagstaff. His wife is the former **Linda Sue Curton** ('61).

**Martin J. Sisk** and his family reside in Richardson, Tex. He is an investment broker with the First National Bank of Dallas. His wife, the former **Yvonne Yapor** ('60) is owner-director of Shamrock Nursery School in Dallas.

#### CLASS OF 1963:

**Richard D. Hughes** is president of Richard D. Hughes and Associates and has been elected president of the El Paso Assn. of Insurance Agents. His wife is the former **Susan Reynolds** ('60).

**Edward Prado Jr.** is managing editor of a recently-formed accounting firm called E. Prado and Co.

**Mrs. Howard F. Funk Jr.**, the former Susan Joel Thomson, (M.Ed. '73) teaches chemistry at Eastwood High School.

**Rev. L. Thomas Oler** is pastor of the Lumen Christi United Presbyterian Church which serves the Lisle-Woodridge-Bolingbrook area near Chicago, Ill.

**Francisco (Frank) Torres** is a Systems Engineer assigned to the Space Shuttle program with Rockwell International Corp. in Downey, Calif.

**Mrs. John J. Obermiller** does the book-keeping for her husband's business, Obermiller Men's Wear of El Paso

**Mrs. Al F. Celani**, the former Betty Roann Ward, is with her husband, Capt. Celani, who is stationed in Germany.

**Mara V. Rubio** is associate professor and counselor at Tulane Medical School in the Department of Social Psychiatry, and is also completing courses in Art Therapy and Hypnosis.

**Wilbur A. Stone** is a petroleum geologist for Esso Eastern, Inc. and has been working in Jakarta, Indonesia, for four years.

**Donald G. Tomlins** is a partner in a consulting engineering firm in Poughkeepsie, N.Y.

#### CLASS OF 1964:

**John Wayne Smith** is director of the El Paso Public Library and president of the Border Arabian Horse Assn.

**Stephen A. Edwards** teaches crafts at Gadsden School and is an artist who has won various awards including one for drawing in the Texas Fine Arts Competition, others at Laguna, Calif., and at Austin, Tex.

**Dr. Robert A. Barakat** (M.A.) is assistant professor of anthropology and history at Memorial University of Newfoundland, St. John's, Newfoundland, and is developing a graduate program in historical archaeology.

**Tommy L. Wells** has been promoted to geophysical specialist and assigned to Lima, Peru, to work with Tenneco Oil Company of Peru.

**W. Andrew Burke** is Deputy Director, Sales & Marketing, for the South Carolina Public Service Authority. He and his wife, the former **Catherine McGregor Wilson** ('65), reside in Pinopolis, S.C.

**David Rosado** is an attorney with the law firm of Woodrow Bean II and Hector Zavaleta.

**Robert Dee Wharton** is a teacher for the Board of Education of the City of Chicago and a graduate reading student at Northeastern Illinois University.

**Larry V. Meeks** is a football and track coach at Address High School. His wife, the former **Nancy Kay Dickenson** (M.Ed. '73) teaches business education at Irvin High School.

#### CLASS OF 1966:

**Margaret Zumr Faber** is a high school teacher in Toledo, Ohio.

**Manuel Chavez** (M.S. '69) is manager of the Mechanical Analysis Laboratory of the Office Products Division of IBM in Austin, also working on a second master's degree at St. Edwards University.

**Doyle H. Gaither II** is executive vice president and trust officer of Citizens State Bank of Ysleta.

#### CLASS OF 1967:

**Jack R.** (M.S. '73) and **Peggy Dowdney** reside in Amarillo, Tex., where he works for Diamond Shamrock Corp.

**Richard R. Montes** is a teacher and coach at Ysleta High School.

**Abel Aldaz Jr.** is Chief, Equal Employment Opportunity Office, Oklahoma City Air Material Area, with headquarters at Tinker Air Force Base, Okla.

**Dr. David F. Briones** is Chief Resident Psychiatrist at the University of Texas Health Science Center (UT Medical School) in San Antonio, also a Fellow in Child Psychiatry.

#### CLASS OF 1968:

**Michael Nix Gunning** is Senior Planner with the Long Range Planning Division of the Office of Planning and Urban Development in Corpus Christi, Tex.

**David Arrieta** (M.S. '73) works in the Civil and Architectural Branch of Standard Oil of California in San Francisco. His wife **Sandra** is a 1972 graduate of UT El Paso.

#### CLASS OF 1969:

**Terry L. Finton** (M.Ed. '73) is counselor, head varsity coach, assistant varsity football coach, and College of the Desert Extension Registrar, at Eagle Mountain High School in Eagle Mountain, Calif. His wife is the former **Nancy Dralle** (1973).

**Ted Taylor** is a petroleum engineer in Houston with Mobil Oil Co

**Jacqueline Fairchild Jackson** is a case-worker at the Texas Welfare Dept. in Houston, working in Aid to Families with

Dependent Children. Her husband Greg is doing his pediatric residency through Baylor College of Medicine.

**Aubrey W. Tucker** (M.Ed. '73) is principal of Ascarate School in Ysleta Independent School District.

**William Duncan Halliday** (M.Ed. '73) teaches Business Education at Jefferson High School.

#### CLASS OF 1970:

**John M. Mackley** is program director for KIUP AM & FM in Durango, Colo.

**Rev. Bernard W. Stein** resides in Florence, Tex. and receives his Master of Divinity degree from Brite Divinity School, TCU, this spring.

**2/Lt. Maria A. Calderon** is an electronics engineer at the Space and Missile Technical Training Center at Vandenberg AFB, Calif.

**Gaspar Enriquez** teaches art at Bowie High School, is listed in Who's Who in American Art, and exhibits his paintings, etchings and silk screen prints at various locations in El Paso.

**Mrs. Leonard Kammerman**, the former Susan Butcher, is a teacher in the Houston, Tex. Independent School District.

**Sam Telles** is in charge of Springer's Specialties, a new division of Guynes Printing Co. that serves advertising groups and other organizations with specialty items.

**Theodore Edward Wasko** (M.A. '70, M.Ed. '73) is the coordinator of the TX Counseling Center at Fort Bliss.

**Carolyn Zumr** is a Marketing Support Representative for the New Orleans Branch Office of IBM-Office Products Division.

**Paul W. Heard** is assistant analyst for Shell Oil Company in Houston.

**Mrs. Hope Hitchens Franco** is teaching English as a Second Language in the Santa Ana School System. Her husband **Hector** ('71) is in his junior year of medical school at the University of California at Irvine.

#### CLASS OF 1971:

**Antonio Sifuentes** is a deputy officer with the Adult Probation Office in El Paso, and a member of the Texas Corrections Assn.

**Mrs. Catherine L. North** is teaching in the Columbus Public School System in Columbus, Ohio.

**Carmen Leal** is Coordinator of the Mathematics Laboratory at the El Paso Community College.

**Beverly Ann Knox** teaches school in Austin, Tex.

**Darrell R. Adams** and his brother **Douglas B. Adams** ('73) are part of a four-member musical group known as Kite. The group works full time as vocalists and musicians and has made a single record, released by Stacker Labels. One of the songs on the record is "Child of the Earth," written by Doug.

**Natividad Campos** (M.Ed. '73) is teacher and chairman of the Art Department at Jefferson High School. His wife is the former **Lydia Andow** ('69).



**CLASS OF 1972:**

**Irma Castaneda** has resigned her position as deputy probation officer with the West Texas Regional Probation Dept. and is now with the staff of NARCONON—El Paso.

**Mrs. G. T. Gutierrez**, formerly Maria L. Reyes, is teaching first grade at Burnet Elementary in the San Antonio Independent School District.

**Larry Donofrio** is a product engineer for the Farrel Co., manufacturers of heavy machinery in Derby, Conn.

**Sharon Lynn Conroy**, a teacher at Andress High School, was named "Teacher of the Year" for 1973-74 by the El Paso ISD.

**Mark McDonald** is a reporter-sports writer for the Abilene (Tex.) Reporter-News.

**CLASS OF 1973:**

**Nancy Kay Rogers** teaches fourth grade math at Magoffin Elementary School.

**Oscar Benitez Jr.** is a physical education and intramurals instructor in the Aurora, Ill. school district.

**William J. Butterfly** is an instructor in the High Altitude Missile Department at Fort Bliss and is entered in the on-post graduate program sponsored by Sul Ross State University, working toward a master's degree in educational psychology.

**Debra J. Little** teaches math at Riverside High School in the Ysleta ISD.

**Barbara Jean Mumm** teaches second grade at Terrace Hills Elementary School.

**Robert Louis Onick** teaches science, also coaches football and track at Canyon Hills Intermediate School in El Paso.

**Donald Max Collins** is Explorer executive of the Yucca Council in El Paso.

**Oscar H. Martinez** is an electrical engineer with Stone and Webster in Boston, Mass.

**Mrs. Cheryl Barnes Israelson** and her husband reside in Juneau, Alaska, where he is a computer programmer and she is an accountant, for the State of Alaska.

**Clifford Joe Hensley** is a research engineer in the Organic Process Research Dept. at Dow Chemical Co. in Clute, Tex.

**Gary M. Thomas** is back in El Paso as assistant program director of the Armed Services YMCA-USO.

**William J. Morgan** is coordinator for the new El Paso Christian College, a Bible-centered undergraduate school.

**Dan W. Carter Jr.** is a high school teacher in Las Vegas, Nev. and is working on a master's degree in Second School Administration at the University of Nevada at Las Vegas.

**Carol Beckham** is a member of the staff of Campus Crusade for Christ International in Los Angeles.

**Mrs. Cynthia Martin Hesk** is teaching English at an intermediary school in Am Holzel, West Germany. Her husband, 1/Lt. Walter Hesk, is in the German Air Force. Her sister, **Jerri Martin** (UT System School of Nursing at El Paso, '73) is employed at Baylor University Medical Center in Dallas.

**DEATHS**

**Mr. Albert E. Millar** (Mining Engineering, 1922), who was for some 42 years the master planner, developer and manager of mining properties for Anaconda Copper, died May 7, 1973 in Santa Barbara, Calif.

**Mr. Alwyn L. (Al) Washburn** ('31 etc.), life long resident of El Paso and former owner of Washburn Company, died December 7, 1973.

**Mrs. Sarah Gregor Critz** (B.A. 1936) died December 16 in Lawton, Okla. She is survived by her husband, Lt. Gen. Harry H. Critz (ret.), a former 4th Army Commander.

**Mr. Jack N. Fant** ('36 etc.) died December 25, 1973 at his home in El Paso. Mr. Fant was 65th District Court Judge at the time of his death.

**Mr. J. C. (Bob) Lawrence** ('43 etc.), life-long resident of El Paso and co-owner of the National Bakery, died January 9.

**Mr. James W. Bing, Jr.** (B.S. 1951), senior production geologist with Gulf Oil Corporation for 30 years, died July 3, 1973 at his residence in Lafayette, Pa.

**Mr. Elden Lawrence** (M.Ed. 1953), chairman of the Agriculture Department at Ysleta High School for 28 years, died November 12.

**Mr. Robert Kniveton** (1956) died February 9, 1970 in an automobile accident, according to word recently received from Mr. Jack Bernard Woll of El Paso, brother-in-law of the late Mr. Kniveton.

**Dr. Charles Raymond Sullivan**, who graduated from UT El Paso with honors in 1960, died December 24, 1973 in Shaker Heights, Ohio. Since 1966 Dr. Sullivan had been an assistant professor of physics and active in research at Case Western Reserve University in Cleveland.

**Mr. Alfredo Ortega**, an instructor of Spanish at UT El Paso, died January 20 in Pecos, Tex., of an apparent heart attack. Mr. Ortega had been a resident of El Paso for 21 years and earned a B.A. degree in 1961 and an M.A. degree in 1963 from the University.

**Mr. George M. Weidmann** (1963 etc.) died November 8, 1973 in Karvajalein Island of the Marshall Islands. At the time of his death he was assistant manager of the Commissary in Karvajalein Island for the Global Associates of California.

**Mrs. Dorothy Chavez Dowe** (1963 etc.) and her daughter Meschel died from accidental carbon monoxide poisoning on February 2 in Albuquerque, N.M.

**Mrs. Marian D. Philpot Brantly** (1970) died April 22, 1973.

*(POWER continued)*

New Zealand, Japan and Siberia. Reykjavik, Iceland, heats most of its buildings using hot water from geothermal sources. In numerous areas, such as parts of the Imperial Valley of California, drilling apparently can enhance the flow of hot water. Also, proposals have been made to inject water into selected geological formations that are at high temperatures, extract the steam or hot water that is produced, and use it for the production of electrical energy.

Since the supply of fossil fuels is finite and the development of new energy sources usually requires long periods of time for research, development, testing and evaluation before they can make significant contributions, thought must be given to their utilization now so they will be capable of assuming the full energy load later. Until very recently most people have ignored the growing energy problems, possibly through lack of knowledge, maybe in the hope that they will go away, or perhaps because of doubt that a citizen can personally do anything to bring about a solution. Even today no major coordinated effort is being made to solve long-range problems. Undoubtedly one factor in this apparent apathy is that the magnitude of these problems is almost overwhelming; they are truly multidisciplinary, involving the environment, the economy, the health and well-being of the populace, and almost all aspects of what we call civilized society.

Because we are all involved, if only to the extent that our supplies of energy may be rationed, it is imperative that we keep ourselves aware of the existing situation and informed about what can be done to avoid a serious crisis. Passing this information along and getting people to listen and react may be a real challenge, but the effort is essential if we are to maintain any semblance of the standard of living that has been attained in those parts of the world that are large consumers of energy and that is aspired to in the remainder of the world. □

*(BOOKS continued)*

America was too tame for them. They came with the Army to a frontier post. They came out of Mexico running for their lives. They came from Missouri and Ohio and Illinois with lung trouble and six months to live. They came one jump ahead of an east Texas sheriff. They came to find a place in the sun and start a new life in a spot so remote and isolated and sandy that any smart gambler would have made a book they wouldn't last a month."

Can anybody improve on that?

*Bordertown Revisited* has the imprint of Guynes Press which means printing of excellence; art is by Fred Carter, photographs by Cletis Reaves, binding by Gerhard Schermer—a totally beautiful production.

—DALE L. WALKER





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