



21 Feb 1980

## The Missouri Miner, February 21, 1980

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# Missouri Miner

*For the Students of UMR*

Volume 68, Number 20

Thursday, February 21, 1980

Human Factor Engineer

## Expert Matches Men and Machines

SOURCE: OPI

If you've ever fumed because the appliance switch was unhandy, the dials were unreadable, or that some machine seemed to be designed for a physical dwarf or mental giant instead of an average person, you're in good company.

It's these small — and sometimes large — problems that are the province of Dr. Alphonse Chapanis, who is a visiting professor at the University of Missouri-Rolla this week. Dr. Chapanis is an expert in human factors engineering — designing machines for human use, taking into account human ability and limitations.

While such problems may be merely an everyday frustration, they can be the cause of serious — sometimes fatal accidents.

This was the case during World War II when technology was making such rapid progress. After receiving his Ph.D. degree in psychology at Yale in 1942, Chapanis, a reserve officer, was called into service. He was assigned to Wright Air Development Center to study possible psychological problems with the design of aircraft.

He found problems of a kind he hadn't anticipated — "a mismatch of men and machines," he says. There were such things as identical side-by-side aircraft control knobs, easily mistaken by pilots, oxygen face-masks that didn't fit (there were only three sizes) — literally life-and-death factors.

## STUCO Blood Drive Below Average

By KEN HARDY

The Student Council Blood Drive held here two weeks ago resulted in the collection of 430 units of whole blood. This amount was sixteen percent below the goal for this drive, and twenty-three percent below the average goal for UMR.

Duane Dierschow, the Student Council Blood Drive Chairman, said that the cold weather that week could be partly to blame for the short-fall. Also, two whole fraternities

These and other World War II studies were the beginning of a new field — human factors engineering.

Since 1946, Chapanis has been at Johns Hopkins University where he established the first engineering psychology program in the world.

"Now there are 55 universities around the country that offer the program — and we cannot educate engineering psychologists fast enough to fill the demands of industry," he says.

Chapanis's research has ranged over a wide area of people-and-machines topics. These include such things as vision, experimental psychology, computer science, vision, statistics and experimental design. His findings show up in such everyday things as color recommendations for best visibility and in the keyboard design of the push-button telephone.

For the past nine years, Chapanis has headed the Communications Research Laboratory in the department of psychology at Johns Hopkins. Recent studies have been on telecommunications systems, especially long distance conference calls. Now the group is working on what Chapanis calls the "man-computer interface."

"Specifically we are trying to design a 'user-friendly' computer," he explains. "We are trying to design a computer so that a first-time user can sit down without any instruction and start to use it. All instructions will be self-contained on the computer itself and the language designed so that it is natural and easy to use."

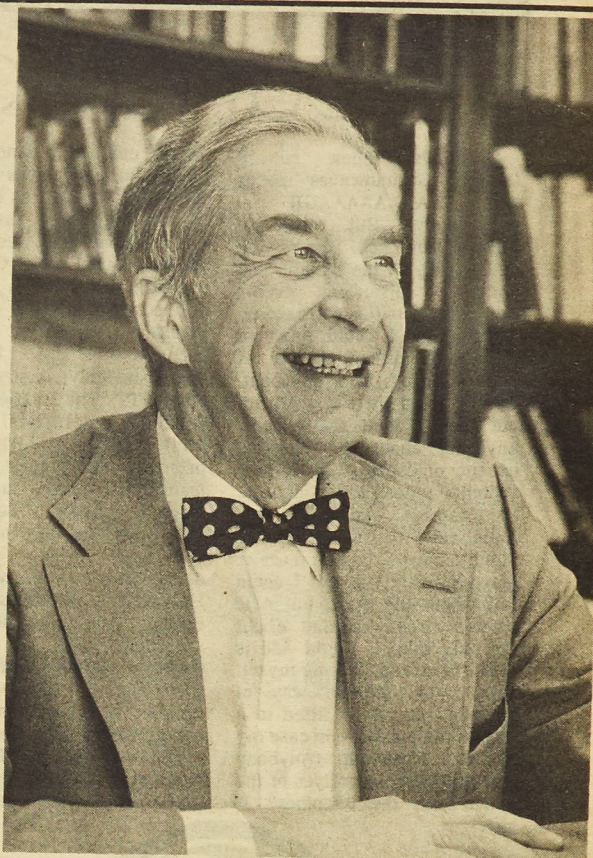
were prohibited from donating because one or more of their members had infectious mononucleosis. Dierschow also cited the popularly held misconception that two months must pass between donations. He said that it is safe to give blood every six weeks if necessary.

The next Blood Drive takes place on April 23 and 24. The Student Council hopes for a better response then. The drive will be more than two weeks before exams, so students need fear not dulling their response.

Chapanis has been a consultant for many governmental agencies and industry, and recently was asked to write a human factors evaluation of human errors in the Three-Mile Island Nuclear Plant accident.

He is irritated when accidents are attributed simply to human error — "because that doesn't tell you what to do about it," he explains.

"Sure, people make mistakes," he says, "but the solution is to try to design around these potential mistakes — first to reduce the possibility of error and second so that if a person does make a mistake, it will not have any unintended consequences."



Dr. Chapanis, Human Factors Expert

(Photo by OPI)

## UM Curators Pass Fee, Housing Increases

SOURCE: OPI

Increases in student activity fees and housing charges for the University of Missouri-Rolla campus were approved here today by the University of Missouri Board of Curators.

Effective the fall semester, 1980, the double occupancy housing rate for the Quad Complex at Rolla will increase \$189 to a total of \$1,699 for the academic year. Rates at Thomas Jefferson Residence Hall will remain \$100 higher, increasing to \$1,799. Proportionate increases were approved for the summer session. Married student apartments were increased \$15 a month to a range of \$145 to \$175, \$160 to \$175 monthly with utilities.

Student activity fees were increased a total of \$5.75 per semester, effective this summer. The increase raises the fall semester activity fee to \$65.75. The second semester fee is \$58.25 and the summer fee is proportional on a per hour basis.

Specific student activity fee increases include \$.50 each for the Rollamo (yearbook), Missouri Miner (student newspaper) and the student social and recreational budget; \$1.50 for KMNR-FM (student radio station); \$.25 for athletics; and \$.25 for general lectures.

UMR students recently conducted a referendum on activity fee increases. A

proposed \$3.00 University Center fee increase was not supported so that fee is unchanged.

In explaining the need for the housing increase Joseph D. Wollard, UMR's executive director of Administrative Services, pointed to increasing operating costs and a need to make improvements in the Quad Complex.

"We should accomplish an acceptable level of maintenance, provide timely repairs and replacements plus maintain an adequate reserve as an obligation to our debt service," Wollard said. "However, for many years our rates have not been such that we could generate full support for these items."

Housing rates at Rolla over the past 10 years have increased at a rate of only about 5.3 percent. Operational costs,

because of inflation, have increased at a much faster rate which has produced the depleted reserve fund and limited facility improvements.

This increase is designed to fulfill that obligation, enabling the campus to make badly needed replacements and remodeling in the Quad Complex.

The five dormitories and Rayl Cafeteria, which make up the Quad Complex, were obtained between 1950 and 1966. Only essential maintenance and no remodeling has been made on these facilities since then.

UMR has hired an architect to prepare plans for remodeling and renovation of the Quad Complex. The present plan is to complete this work over the next five or six years at an estimated minimum annual cost of about \$150,000.

## This Week's Goodies

Miller Gong Show Pg. 3

DOE Follies Pg. 5

Tanning Salons Pg. 11

Koenig's Kraziness Pg. 7

Karen Williamson: M-Club Athlete Pg. 15



# Puzzle

## Answers

ANSWERS  
P A T R I C K

(Continued From Page 19)  
equation. The unsuspecting student rejoices. Surely I can work that one out! Receiving a

student's attention on the part where the error came in. Thus, little by little the professor complicates the problem but

# Groundwaves

Greetings, fellow culture lovers! Groundwaves needs help WAAAAAAGH — desperately! But, seriously folks, (heh, heh, figure the odds), with all the socially and politically disturbing events taking place in the world today, you'd think I could think of something interesting (or at least amusing) to write about. Well, I could write about Iran, but then I don't really know anything about the country, except, of course, that if they switched places with Alabama, the capital would be Birmingham (or would it be Montgomery?). So that more or less kills that subject. I could talk about the draft, but Arlo Guthrie already did that. About the only thing I might add is that I'm already having myself custom (a Scottish way of spelling "custom") fitted to a kilt for the big move in case my number comes up (Anybody know how to play "Eyes of the World" on the bagpipes? It

might come in handy over there). So, that leaves me with nonsense. Well, I was listening to the half-speed master of "Abbey Road" last week on the GDebs request show (God! Did it good!) and I had to jump up and scream in a fit of total, exhilarant joy for at least 45 seconds after "Ah, Darlin'" when suddenly, it struck me! SPLATTTT The Beatles owned Auxiliary Enterprises! I mean, think about it! What was probably the biggest money-losing company in music history? Apple! So, what happened after they completely fell under? They made a desperation deal with the University of Missouri to operate Aux. Ent. at a pre-specified loss for an indeterminate period of time so that the U. could always balance its unorthodox profit-taking with a huge, gaping loss (from our pockets of course) through Aux. Ent. I mean, you gotta admit, they had to be

professionals at losing money, right? Who but a professional could manage the biggest money-making musical group in the business at the time and still come out in the red? These guys probably lose three or four hundred dollars every time they go to the bathroom! They gotta have a system worked out. Go to a cheap burger joint, hand the sweet-looking sixteen year old behind the counter a fifty for a two-fifty meal and take off before she can give you change. What does the sweet-looking sixteen year old do? Report it to the boss? Hell no! She stuffs the change down her training bra and proceeds to get the entirety of Rolla High School drunk the following Friday night. If that doesn't make her popular, nuthin' will. Why didn't I think of this before? I mean, it's so obvious! Hey, wait a minute — that means that if anybody's got the corner on a Beatles reunion, we do! DIGIT! The BEATLES for St. Pat's? Dynamite! Well, how about it, Jess? We can work it out, ya know what I mean? Heh, heh. Awww, I knew deep down there had to be a good reason for that student activities fee raise! Now, everybody, don't chide Jess too much about this, I mean, I guess I kinda blew his cover but ya gotta let the man work at his own pace — don't wanna cramp his style, ya know? I'm sure he's got a real BIG surprise in store got us. We're just waiting, Jess! Here's watts happening this week:

(Continued on Page 12)



# Window shopping

(Continued from Page 8)

and hit him squarely on the head ... it gave him a concussion. Clifford's latest endeavor is the revolutionary oxygen bomb. In his own words: "It's really an anti-bomb. The enemy launches its hydrogen bomb, and we intercept it with our oxygen bomb in half the atomic proportion. The result is two parts their hydrogen bomb to our one part oxygen bomb. This eliminates the danger of radiation, but now we're faced with the problem of disposing of a new bomb with the power of a 100 megaton water balloon."

**Clyde Feeley, BA Philosophy, Class of 1920.**

MSM's first philosophy major, Clyde Feeley astounded his entire graduating class by philosophically proving that he didn't exist.

Clyde spent the next thirty years of his life searching for an answer to man's problems. Possessed with the hope of finding the key to the eternal mysteries, he studied the ancient Greek philosophers, the Renaissance writers, and even the skeptical modern thinkers. His life was dedicated with helping man reconcile himself. Then, August 4, 1953 at 7:33 a.m. he found the answer. He raced out into the street shouting, "I've got it! I've got it!!," and then he was hit by a cement truck in the rush hour traffic.

**Artemus Lint, BS Computer Science, Class of 1927.**

Truly a man of vision, Artemus Lint studied computer science at a time when there was no computer science. Immediately after graduating, Artemus accepted the only available job in which he could punch little holes in little cards — a railroad conductor. And for the next twelve years it appeared that the genius of the man would go unnoticed forever. But a lucky stroke in 1939 supplied him with enough money to retire. His uncle had the stroke.

Returning to MSM, hw spent the next few years writing the first crude computer program. He carefully transcribed each statement into computer language on a coding sheet of his own composition, and then marched into the basement of Harris Hall where he has been patiently waiting the past 25 years for an unoccupied key punch machine.



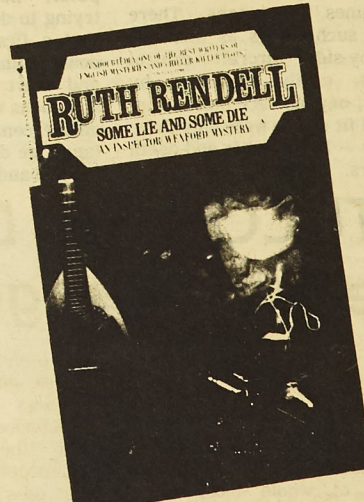
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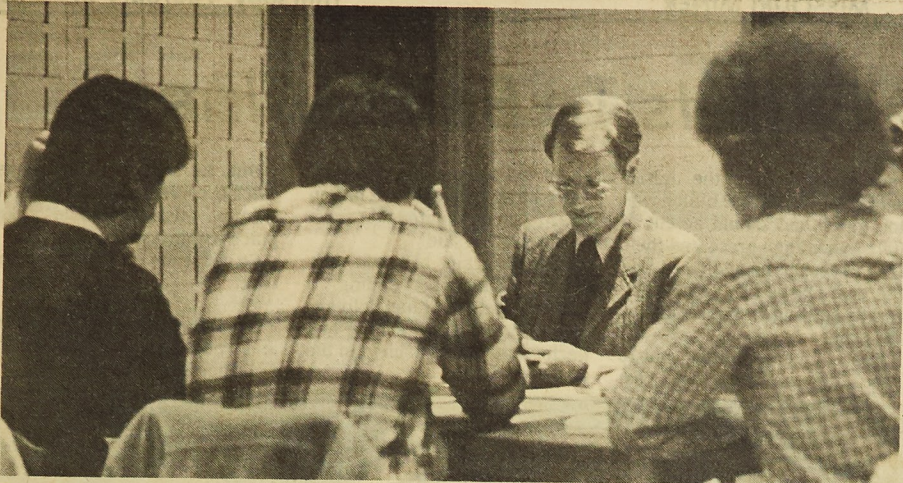
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Dean Robertson deals a round of blackjack at SUB's Casino Night.

(Photo by Cook)

## News

Thursday, February 21, 1980

MISSOURI MINER

Page 3

### Self-Improvement

## Exercises Offered

A twelve-week program of exercises for self-improvement for the students and public has been planned by the Self-Improvement Exercise Group of the Coterie of Faculty Wives. Under this program, the participants will learn simple ancient oriental exercises to keep their bodies in a physically fit condition and free from disorders. The key to good health is flexibility of the spine. In addition, accelerated relaxation techniques for increased efficiency in day to day

work will be taught through the medium of breathing and thought process. Discussion sessions will include (a) an explanation of the process of conflict and fear in one's mind and how one can attain freedom from these maladies and (b) hints for health through eating wholesome food and sprouts. The program starts Wednesday, February 27, at 6:30 p.m. in the Missouri Room of the University Center. They are free for everyone.

## Missouri Miner

The MISSOURI MINER is the official publication of the students of the University of Missouri at Rolla. It is published weekly at Rolla, Missouri. The MISSOURI MINER features activities of the students and faculty of UMR.

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THE MISSOURI MINER  
T-1, 341-4235  
University of Missouri-Rolla  
Rolla, MO 65401

## Gong Show Is Back

Brush your teeth and comb your hair, the 1980 Miller Gong Show is coming to town. Next Wednesday, February 27, 1980 Miller Brewing Company, Grellner Sales & Service, and The Attic Lounge will present the 3rd Annual Miller Gong Show. The Attic will have reduced prices from 7 p.m.-12 a.m., and the first act begins at 8 p.m. With Chuck Barris on vacation, the guest host will be UMR's world famous Greg Hicks. The contest is open to both students and townspeople.

Prizes will be presented for Best Act, Worst Act, and most Unique Act. The judges will be

Brian Wagner-President of the St. Pat's Board, Mark Suellentrop-President of Theta Tau Omega, and Ed Latimer-past President of the Interfraternity Council.

Again, the contest is open to both students and townspeople. All acts will be limited to ten minutes. You need not play a musical instrument to enter, however, you must supply your own costumes and props. For more information or applications contact: Jerry Frederick-364-5226, Joe Gabris-364-2930, or The Attic Lounge-364-1058. Be sure to attend this first St. Pat's Psych-Up.

## New Heating Equipment To Burn Cheaper Coal

SOURCE: OPI

A bid for \$933,300 for heating plant equipment on the Rolla Campus was awarded here today by the University of Missouri Board of Curators to Harold G. Butzer, Inc., of Jefferson City.

the state's General Assembly a Supplemental Appropriations Request for an additional \$2,250,000. This money is needed to meet inflationary costs,

additional air quality equipment required and a different new boiler which will accommodate the burning of Missouri coal and wood chips.

### Valentine's Day Massacre of 1980

#### PHYSUCKS 24 RESULTS OF TEST 1

Total Points Possible - 120 pts.

This Section's Average - 45 pts. (38%)

Overall Average - 48 pts. (40%)

PUNT!

Time to head for Parker Hall...

And then to the Mountains!

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(About T-shirts, we mean)

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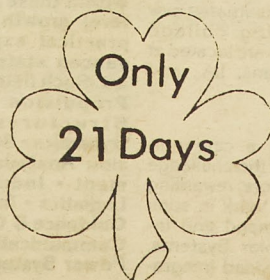
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# Puzzle

## Answers

DUFFY  
PATRICK

(Continued From Page 19)  
equation. The unsuspecting student rejoices. Surely I can work that one out! Receiving a

student's attention on the part where the error came in. Thus, little by little the professor complicates the problem but

In Ten Years--

## Space Shuttle Flights To Be Routine

By NINA BONDAROOK  
National News Bureau

You may be aboard one of the at least 500 space shuttle flights within the next 10 years, even if you have heart ailments, diabetes and other health problems.

Secretary of the Air Force Hans M. Mark, who was appointed to the post in July 1979, said after rigorous testing, the Air Force and National Aeronautic and Space Administration has discovered that just about anybody can go into space. "In a few years, quite a few people will have been in space and it will not be an unusual thing to have gone," Mark said.

Dr. Mark made his comments during a recent visit to the Air Force Academy in Colorado Springs as part of its Distinguished Speakers Program. During a presentation to more than 2,000 cadets, military personnel and the public, he said, "Space flight is very much easier and more benign than we thought." In fact, he said, a group of test subjects over age 70 were found fit to travel by shuttle.

The shuttle program is a joint effort between NASA and the Air Force. There will be two launch sites: Vandenberg Air Force Base, California, and the Kennedy Space Center in Florida. The Consolidated Space Operations Center, recently announced by the Air Force as the location of one of two mission operations centers, will be constructed in Colorado Springs. The civilian operations site will be at Johnson Space Center in Texas, he said.

"It's especially important for those of us in the Air Force to think about it (the shuttle) because of the military potential — potential for national security." It is a clear indication that the United States is capable of the kind of achievements that make us a great nation."

Each shuttle flight will be operated by an astronaut-type pilot, a co-pilot, and a mission specialist. An additional four passengers trained to handle cargo will make the journeys, he said.

"They are people who will not have to have high qualifications. They will not have to be pilots," he said of the payload specialists. "They will have to be experts on that particular payload."

When the shuttle program began in 1968, Mark said President Nixon told

researchers that the initial estimated cost of \$22 billion was too much and should be cut in half. When they presented their first proposal, he again ordered the cost slashed by 50 percent, finally settling on \$5.5 billion for the program.

Costs have escalated, and to date, the program has cost

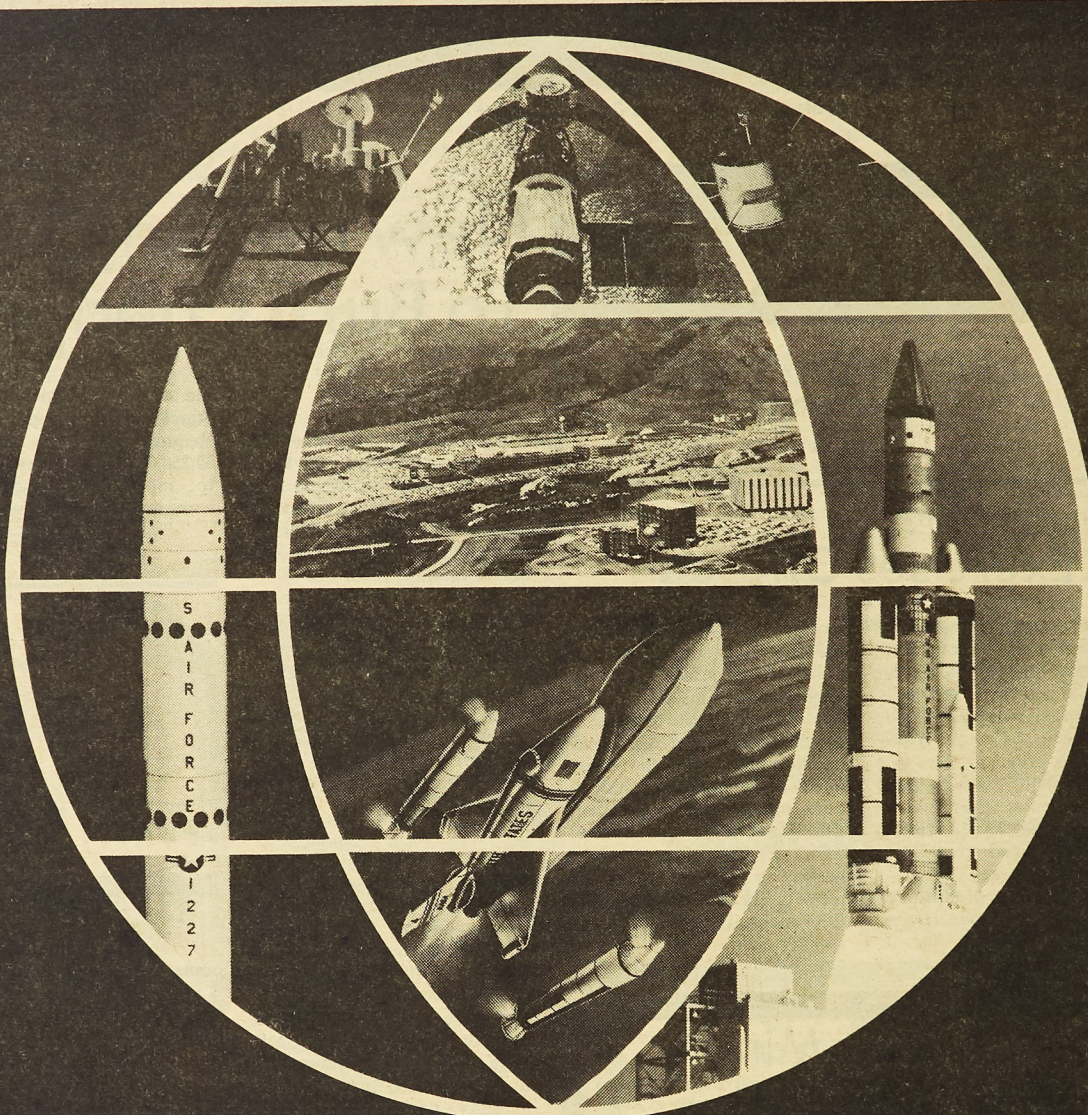
about \$13 billion. "In addition, there have been about \$2 billion in unanticipated cost overruns," he said.

The program has run into major problems; finding a suitable method of fuel delivery to power the main engine and perfecting the heat shield in the shuttle's exterior

But, he said, both problems can be corrected and the first shuttle mission should take place within a year.

So get ready for your own star trek.

Nina Bondarook is a writer and photographer based in Colorado Springs.



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# DOE: Stranger Than Fiction

Reprinted from World Research, Ink

By BECKY HABER

**BIG BUSINESS MAKES HUGE PROFIT ON OIL.** The headlines go on and on; again, the public is fooled. According to a recent article in the Los Angeles Herald Examiner the breakdown on a gallon of gasoline which sold (early 1979) for 78.9 cents in California, goes as follows: 33.5 cents to Saudi Arabia; 20.6 cents for various U.S. government departments; 2.0 cents to the oil company; 1.2 cents to dealers and the remaining 22.6 cents to cover costs. Headlines should be changed to: **BIG GOVERNMENT PROFITS AGAIN!**

The vice president of a small Kansas company, Highway Oil, which operates 225 independent gas stations, went to the Department of Energy to argue that regulations are destroying his firm. According to the vice president of Highway Oil, Mr. Gaffey, DOE encouraged his company to invest \$300,000 in gasahol production equipment. The company needs gasoline to

run the equipment, but DOE won't let them have it. Much to Mr. Gaffey's dismay the DOE agreed that the regulations were bad for the company, and one top DOE official sees no relief in sight. The DOE has a backlog of 5,000 such complaints.

Well, DOE is letting them have the gas, but certainly not in the form the company can use.

During the height of the energy crisis, the Department of the Navy used 64 aircraft to fly 1334 officers to Las Vegas for a reunion at a cost of more than \$191,000.

All of this, and the government wants us, the taxpayers, to quit being so wasteful?

The National Science Foundation is helping us (at least they think so) even more than the DOE. They have spent \$84,000 to try to find out why people fall in love; \$81,000 to study the social behavior of the Alaskan Brown Bear; \$25,000 to study how people react to a picture of an octopus in a barnyard; and \$112,000 to examine the African climate

during the last Ice Age — that's just naming a few!!

The Department of Energy is having trouble making up its mind with regards to our energy crisis. First of all in May 1979 they urged oil refineries to put more of their crude into gasoline and less into heating oil, which previously was forbidden. In mid-May, the DOE changed its mind again, this time about the U.S. oil companies dealing with foreign markets; earlier the oil companies were urged to stay out of the foreign market but now DOE is urging them to buy more crude abroad. And, early in '79 the DOE decided that we had an abundance of natural gas and asked industrial users to burn as much as possible. Confused? So are we.

Senator John H. Glenn, Jr. (D. Ohio) was surprised during a recent subcommittee hearing on nuclear power. A scientist witness produced a Geiger counter and took a reading in the Dirksen Building hearing room. Come to find out, the construction stone was emitting 250 millirems of radiation — a higher dose of background

radiation than people received downwind of the Three Mile Island nuclear plant at the height of the accident. This scared the people in attendance and Senator Glenn announced "This hearing is adjourned."

What can \$34,000 do for you,

Then, we have the National Institute on Alcohol Abuse and Alcoholism which has spent millions of dollars to find out if drunk fish are more aggressive than sober fish, (that's always nice to know, you may want to buy a drunk fish rather than a sober one); if young rats are

## Comments

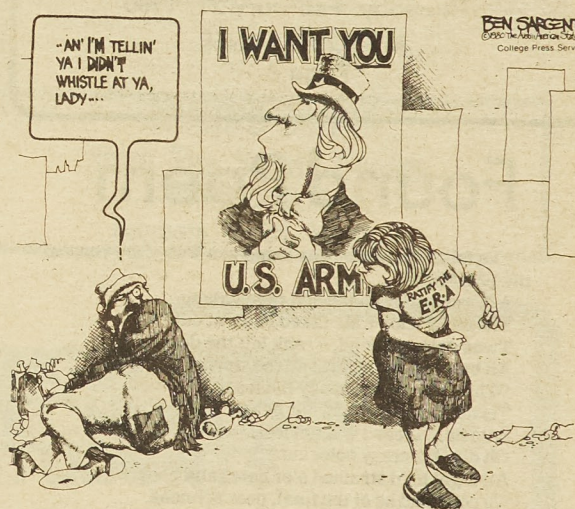
Thursday, February 21, 1980

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the taxpayer? It will tell you that the Department of Energy (DOE) is running smoothly. (Now, we'll be able to sleep nights.) This recent \$34,000 study was authored by the people who worked with James Schlesinger in setting up the department.

more likely than adult rats to drink booze in order to reduce anxiety; and if rats can be systematically turned into alcoholics. Maybe this means we shouldn't put any cheese which contains beer, wine, etc. into our mousetraps?



Edison didn't bitch about darkness

Seeing the need for change,

Ford didn't demand laws to hassle horses.

Bell didn't lobby against late letters.

Carver didn't demonstrate against spoiled soil.

And the Wright brothers didn't file  
a class action suit against gravity.

## CAN YOU IMAGINE WHAT THE WORLD WOULD BE LIKE IF THEY HAD?

Famine will not be stopped by people carrying placards in parades. Famine will be stopped by those men who can fix nitrogen cheaply at low temperature and low pressures and bring nitrogen fertilizers to the world, by the geneticists who will be able to breed plants with high lysine, tryptophane and methionine content in their protein. It will not be effected by slogans and bumper stickers.

—Professor Paul Saltman  
Univ. California, San Diego

## St Pat's GREEN

On Sale in the Student Union.

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Sweatshirts-6.00

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Buttons-.50

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# Puzzle

## Answers

DUFFY  
PATRICK

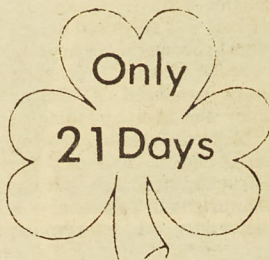
(Continued From Page 19)  
equation. The unsuspecting student rejoices. Surely I can work that one out! Receiving a

student's attention on the part where the error came in. Thus, little by little the professor complicates the problem, but



## Features

Thursday, February 21, 1980  
MISSOURI MINER  
Page 6



## Found Poem

The following poem was found in a February issue of the 1954 Miner.

A fierce wind howled and raged about  
The day Fickle Fate faked Fratrut out.  
Twas dark and wild, Frank left the dorm  
All bundled up, he braved the storm.  
"This is the worst to say the least.  
Tis no fit day for man nor beast."  
Said he, "I fear I will get lost.  
Oh dig this crazy holocaust."  
All night he'd strained o'er notes and book  
No copy had he of the final, poor schnook.  
To pass he needs to make an E,  
But he was not too slick, you see.  
So he studied doggedly, night and day,  
This sucker chose the honest way.  
Oh, the snow lay heavy o'er the town,  
And a mighty wind bent poor Frank down.  
It knocked him one way and the other,  
It really was a nasty mother.  
Poor Frank staggered through the storm.  
His cashmere coat scarce kept him warm  
When finally he arrived and sat,  
A glacier was formed on his hat.  
The professor passed the finals around  
They were two feet thick and weighed a pound.  
But Frank was sure this test he'd cool  
He knew each fact and every rule.  
"I'll have no cheating," the professor said.  
"If you dare talk, I'll knock you dead."  
And when the test was under way  
A friend in softest tones did say,  
"Oh, I say, Frank, you are unzipped."  
A great embarrassment poor Frank gripped.  
He clutched. "This can't be true," said he.  
"How humiliating, oh woe is me."  
The professor leaped toward Fratrut's seat.  
"I heard you speak, you little cheat.  
I'll have no cheating on my test."  
Despair lay hard in poor Frank's breast.  
"Hand in your paper, wretch ill-starred.  
The Dean will punch your T.S. card."  
And thus the fickle finger of fate  
Pointed at Frank, he got the gate.  
The moral of the story is  
Never think you've cooled a quiz.

Nature provides us with many examples of how to live. When we say "natural," we connotatively mean those things which parallel to Mother Nature as closely as possible. Human litter, for example, is often classified as unnatural because it mars the environment. Consequently, if we examine nature and follow the guidelines established in nature, we will be living as naturally as humanly possible.

Recycling is abundantly present in nature. Bodies of water partially evaporate into the air, forming clouds. The clouds float along, gathering moisture, until they are too heavy; then, they pour their water back to the Earth and bodies of water. This cycle perpetuates itself and is an excellent feedback system. Plants expel oxygen which animals need to survive. Animals, in turn, give off carbon dioxide, which plants must have present in their environment to live. This is another example of a perpetual cycle, a type of "you-scratch-my-back-and-I'll-scratch-yours" situation, during which outputs of a process are converted back into elements reusable in the process. Recycling, or recovering and reusing the "waste products" of a system, instead of destroying or abandoning these waste products, is natural, can be logically implemented, and is beneficial to all living organisms on this planet.

Recycling is a natural constitution and a necessary structure during these days of rising fuel and disposal costs. As Roger Starr of the Horizon states:

**The ultimate problem of solid waste is not that the waste itself takes up valuable room on the spaceship "Earth" but that the stock of elements is limited, and if the elements are locked into waste irretrievably, they are lost to human life. As the character of man's waste has changed — from organic compounds capable of decomposition and regeneration through the metabolic processes of life, to compounds such as plastics, which resist decomposition — so the ability of the Earth to sustain life may have been impaired.**

Nick Nichols, the manager of the Rolla Recycling Center, has one goal in his job: Keep those reusable elements OUT of landfills, and put the elements back into the human cycle of utility.

Economics, politics and personal action are the methods to implement recycling. Recycling is costly, but the conventional disposal methods cost more. Recycling Centers create jobs and directly recover valuable elements needed for industry. In essence, an industry is created out of industries' waste.

Franklin Associates, Ltd. compiled three separate studies into a single report for Alcoa. This corporation sought to emphasize the benefits of resource recovery on a nationwide basis. The report em-

phasized that, in small communities, recovering wastes and using energy from combustible wastes in the recovering process is ideal. On a large scale, in "150

million people (62 percent of the total U.S.A.) would be served; 226 recovery facilities would process 103.8 million tons of municipal waste (57.6 percent of total U.S.A. waste generation). To do so would require \$6.3 billion (1974 dollars); \$1.53 billion annual operating cost; revenues would reach \$1.15 billion; net operating costs would be \$378 million, or \$3.64 per ton of waste, nearly double the cost of not practicing resource recovery. These facilities would employ 25,700 people not now employed in municipal government or industry."

Furthermore in 1919, when Toots Schuman was St. Patrick, Miss Edna Kiel of St. Louis, daughter of Governor Kiel (after whom Kiel Auditorium in St. Louis is named) was crowned St. Pat's Queen.

So it was  
But who asked

## Recycling - Nature's Own Way

"In terms of actual recovery products, under full development, there would be 7.5 million tons of ferrous metal

(Continued on Page 8)



# Women's Basketball

By GERRY GOEKE

The UMR Women's Basketball Team closed out their regular season action last week with a split, losing to Southwest Missouri State last Wednesday by 2 in a real heartbreaker, but recovered in time to wallop Southeast Missouri State on Friday, 71-49.

The Lady Miners looked like two different teams in the Southwest game. In the first half, they looked slow and lacked aggression and payed for it, as they went into the locker room at halftime trailing by nine. The Lady Cagers came out in the second half with a new aggression and vigor, and fought back to tie the game with six minutes left, and from then

on the two teams seesawed; for the lead until, with four seconds left and the score tied, SMSU had a jump ball in UMR's zone. The Miners allowed only a 20 foot jumper to a girl that had just come into the game, and the shot bounced around on the rim and went in. This loss put the Women's District record at 2-4, but their play was impressive enough throughout the season to warrant an at-large berth in the State Playoffs, which will go from Thursday to Saturday of this week, February 21-23.

In the Southeast Missouri State game last Friday, the Lady Cagers totally outclassed a lesser Indian squad in a good warmup game for the State Playoffs. They played well, but

were not driven to the limit of their capabilities.

Coach Annette Caruso is very optimistic about her team's chances in the State Playoffs this weekend, and though the Miners were seeded eighth (out of eight teams) and will have to play Northeast Missouri State in the opening round, she is "pleased with the seed," as UMR beat NEMSU at their court in Kirksville earlier in the season by 7 points. The other teams in the State Tournament besides UMR and NEMSU are Missouri Southern, Missouri Western, Lincoln University, William Woods College, Southwest Missouri State, and Evangel College.



Karen Williamson

## M-Club

### Athlete of the Week

Karen Williamson has been selected as this week's M-Club Athlete for her outstanding basketball accomplishments. Karen received roses and a trophy during halftime against Lincoln. Karen received this

award based on the fact that she played in her 100th game this season. This was highlighted when it was announced she had been chosen as this year's MVP for the Lady Miners.

### Intramural Standings

DIVISION I		LEAGUE II		DIVISION II	
LEAGUE I				LEAGUE I	
Campus	5-0	ABS	6-0	RHA	4-0
Beta Sig	5-1	Tech	5-1	Delta Tau	4-0
Sig Ep	3-2	GDI	4-1	Lambda Chi	2-2
Sig Nu	2-3	Phi Kap	3-2	Theta Xi	1-3
TKE	1-3	Mates	1-4	CCH	1-3
Kappa Sig	1-3	Pi KA	1-5	CSA	0-4
Sig Pi	0-5	TJHA	1-5		
		KA	1-4		
				LEAGUE II	
				Manor Inn	5-0
				Wesley	4-1
				Sig Tau	4-2
				BSU	3-2
				Triangle	3-3
				AE Pi	2-4
				Delta Sig	1-5
				Acacia	0-5

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Stardusters	2-1
AWS	1-2
KD	1-2
TJHA	0-3

#### LEAGUE II

Chi O	3-0
MSRA	2-1
ZTA	2-2
WHA	1-2
Crescents	0-3

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February 28, 29, March 1

## ENGINEERING & TECHNOLOGY STUDENTS

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Foster Wheeler Energy Corporation is a leading engineering and construction firm serving the petrochemical and related industries nation wide.

Our Houston Engineering Center will have representatives on campus Tuesday, February 26, to conduct interviews for engineering and design positions. If you will be graduating in May in Chemical, Electrical, Mechanical, or Civil Engineering, or in Engineering Design Technology, sign up at the Placement Office on February 18 to arrange for an interview.

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# Puzzle

Answers

DUFF  
PATRICK

(Continued From Page 19)  
equation. The unsuspecting student rejoices. Surely I can work that one out! Receiving a

student's attention on the part where the error came in. Thus, little by little the professor complicates the problem but

## CBN CORNER

### 'Newsight '80' searches for the untold story

by Scott Hessek

The correspondents from the ABC and NBC affiliates were there. They wrapped up their interviews into neat 40-second packages and departed so they could edit them for the six o'clock news. Their stories on the seminar were simple, even bordering on the simplistic: "The nice doctor came down, said some nice things about 'crib death,' and now the world is going to be a better place."

But after the network people left the corridors of the Eastern Virginia Medical School, a small news team remained behind. Two CBN University students with a mini-cam on a wobbly tripod and forty feet of knotted extension cord came for the real story—and they were determined to stick around until they got it.

And get it they did.

#### The real story

Not only did they discover that the Sudden Infant Death Syndrome is the leading killer of American babies over two weeks of age, and that special home monitoring programs now offer some hope for a small percentage of infants, but they also discovered something not mentioned in the seminar's program. Much of the progress made in the battle against this disease started because a non-medical housewife and her friends got together and decided to do battle against Sudden Infant Death when the medical profession was ignoring the entire question and denying that anything could ever be done to save the babies.

Nothing on the seminar program listed this information, which went on to expound at length on the background of the participants and the erudite qualifications of the universities and hospitals that backed them. The CBN team, filming for a segment of 'Newsight '80' and a potential news documentary down the road, got this information because they were not willing to settle for the obvious.

#### Concerned parents

In their probing, they found that a group of parents called the Tidewater Guild for Infant Survival had, for the past eight years, been voluntarily helping parents who lost their babies. They also found that the Guild had been battling attempts by the Federal government and the medical community to have the entire question of 'crib death' shoved under the rug, and the doctors now lauded by the medical community had pioneered work in the face of medical criticism.

They learned that this remarkable organization and its affiliated Guilds had accomplished all this without a penny of Federal, state, local or United Way money. They had done it by themselves by beating on doors, stuffing envelopes, holding bake sales and refusing to go away.

The real story is that determined, 'average' people can change things. It's a story you'll probably never see on the other network newscasts. But it will be among those things covered by Newsight '80 for the CBN Satellite Network and CBN's owned and operated stations. The CBN News team got the story because they refused to settle for pat answers.

TV COMPULOG SERVICES, INC.

## Recycling

(Continued from Page 6)

recovered; 0.73 million tons of aluminum; 6.4 million tons of glass, 5.5 million tons of paper and 71.6 million tons of combustible waste with a heat content equivalent to the heat content of 123.4 million barrels, of crude oil per year." These non-virgin materials wouldn't been wasted, but instead, there is a way to reuse them.

Aluminum will play an important part in the economics of recycling programs. (Recycle those beer cans!) Direct benefits include the non-virgin materials saved from landfill and energy conservation of industries that don't have to produce the extra tonnage that is recovered. Construction companies will participate in the increased labor employment associated with large-scale initiation of recycling centers. Most importantly, every consumer will have to arise to a new consciousness; individual participation is necessary to make the recycling industry work.

#### URBAN ORE

"Human waste has been referred to as urban ore." There are many steps that we can take in our homes towards recycling. First of all, gather tin cans and aluminum cans (separately), glass containers, newspaper and magazines. These can all be taken to the recycling center. Also, biodegradable substances such as orange peels, egg shells, coffee grinds, and moldy food can compile a compost heap. Compost is an excellent fertilizer, and a great way to dispose of nitrogen- and bacteria-containing substances. Recycling and its benefits totally outweigh the energy that we expend while we recycle. Consider recycling. There aren't any simple solutions, only intelligent choices.

## Windowshopping

a potpourri of ideas.

This week "Windowshopping" honors four famous UMR alumni by asking that all important question:

#### WHERE ARE THEY NOW?

**Zeke Rhomboid, MS Electrical Engineering, Class of 1922.**

During the thirties, Zeke worked for the City of Chicago wiring electric chairs in series for mass convictions of racketeers. Shortly thereafter, he became an independent inventor patenting such discoveries as the low pass filter cigarette.

In the early fifties, Zeke thought big and was fired by his company. They manufactured transistors.

Now in his later years, he is taking life easy in Florida. After witnessing the great advances in electrical engineering technology during his illustrious career extending nearly half a century, Zeke was recently asked if he would do it all over again. He replied, "No."

**Clifford Yapney, MS Physics, Class of 1925.**

Most students remember Clifford for his lifelong desire to expand upon Newton's Law of Gravity. He spent years sitting under apple trees waiting for the golden opportunity. Finally and unexpectedly it came. One evening while he was casually relaxing in a Winesap orchard, an apple snapped from its branch

(Continued on Page 10)

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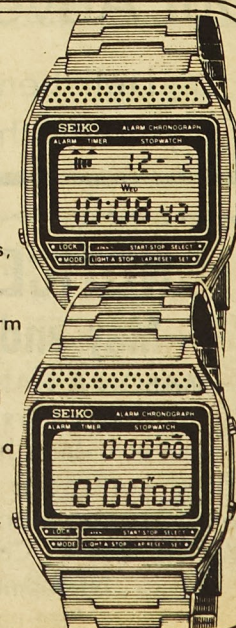
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## Koenig's Krazy Eight Mile Island Fiasco

(Continued from Page 7)

mileage can be gotten out of the Iwalk crisis. Relating to item one here on the agenda code named Golden Fleece. President: Yes I feel a great affection for the Greek citizens living in our fair land and have chosen to name this entire operation after one of their primitive in it's Barbaric splendor legends. P.R.: Certainly Mon. President, but the discussion was of your reelection to office and frankly I feel that regardless of what the polls say we are in trouble. To use a trade term, coined as it were by Masters and Johnson, we have peaked to soon. Religious: Sir! you talk about this unfortunate incident as if it were something which can be timed or manipulated such that President interrupting the Rev.: Thank you Rev. your words are appreciated let no mistake be made about my deep personal respect for religion. I would however at this time like to ask a question of you gentlemen. Has this truly grown to the point that it must be labeled a crisis? Legal: speaking strictly from a legal stand point I feel that we have no choice in the matter. The extensive use of that term in the press alone marks it as such. President. At last! Finally my first crisis. Perhaps now I can

write a book after all President Tricky wasn't the only one! Congressional: Mon Artair I think it might be best to wait a bit on that book. After all isn't "My One Crisis" a bit of a weak title for a book. Why Pres. Tricky wrote about his six before he was even elected to our highest office. Legal: I think Mr. Asuwisk might have a point, but in the light of one certified crisis I believe we might be able to position other events so as to appear, looking back on them, to have been times of personal and national crisis. I'm thinking specifically of the incident at Eight Mile High Island incident. Political: I agree I also think the Hurt Chance incident, the more in sorrow in anger angle, has possibilities P.R.: Gentlemen! we are missing the point here we face a crisis of the first order at this very moment. With the Iwalkian situation drawing to a close we must find some way of maintaining the momentum we have gained. President! Exactly! what is your recommendations should I begin to campaign again. After all that got me elected the first time. Political: Mon. President it's alright for a candidate to run

for office, but an elected official can't afford to appear to even need to run for office much less have the time. We've got to stand on our record and if we can't stand on our record we'll have to invent one. Intellectual: I've been staying out of this discussion in order to gain an impression of your views on the matter. Now however I feel I can shed a little light on this issue. As has already been said we face a grave political situation. If you will cast your thoughts back just a few months you will realize that our present situation is not at all that bad. At that time we were far behind in the polls with no hope in sight. Then as if by magic some Iwalkians grab a few of our icecream vendors there on convention and we're 30 pts. ahead in the polls, I believe in the old idea that if it works once try it again. Military: Just a minute sir. you know that no one has higher regard for the opinion of intellectual members of our society, but you often lose sight of real life situations. Our intelligence network has drawn up a study relating effective presidential crises to events that occur during them with a very startling result. In order

to do us any good we have got to have the President burned in effigy. President: I don't see any trouble with that we can always fall back on President Tricky's method and reinstitute the draft. Military: But sir you don't realize the unfortunate state of the young men in this country. They haven't got the guts enough to shave their legs and put on a dress, much less burn a president in effigy. President: how about if I come out in favor of building elementary schools on top of nuclear waste disposal sights. That should get somebody mad. Congressional: No, No Mon. President a thousand times no that would be a grave danger. The conservatives would accuse you of running up the national debt to build new schools in a time of decreasing student population. and the liberals would say that you attempting to "throw a few tid bits" to them in order to get

elected. National Security Advisor: It's off the subject but how about my proposition to double the guard on your appointment Mon. Ennedy. If he where to be killed by a political assassin this whole then could be turned upside down over night. P.R.: I see what you mean. That could be just the kind of thing to give his campaign a boost. Handled properly (and he does have some good personnel) being assassinated could sew up the nomination for Ennedy. President: (taking up the man of action expression that had won him many followers) let's not talk about it let's do it.

Now back to our real problem. Let's have some original solutions. Military: I've got your answer in one word. Communism.

### INTERVIEWING Mon. Feb. 25 ENGINEERS

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## It Happened Here

#### 50 years ago this week

23 to 30 men show up for track tryouts for first Miner track team.

#### 25 years ago this week

Shirley Briegeman selected St. Pat's Queen by Ed Wilson, noted St. Louis Disc Jockey.

#### 15 years ago this week

Gin tournament scheduled.

#### 5 years ago this week

Pavlov's Dog and Kansas slated to appear. Phase II postponed, again.

## POSTERS

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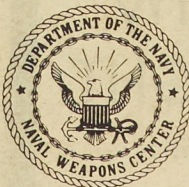
Jct. 63 & Pine Rolla 364-4544

# GRADUATING ENGINEERS AND SCIENTISTS

Have you considered these factors in determining where you will work?

- |   |  |   |
|---|--|---|
| <ol style="list-style-type: none"> <li>1. Will the job offer challenge and responsibility?</li> <li>2. Will your future employer encourage job mobility?</li> <li>3. Will your future employer encourage, support and reward continued professional education?</li> <li>4. How much choice will you have</li> </ol> | <ol style="list-style-type: none"> <li>in selecting your work assignment?</li> <li>5. Big starting salaries are nice — but what is the salary growth and promotion potential in the job?</li> <li>6. Can you afford the cost-of-living in the area?</li> </ol> | <p>At Naval Weapons Center we have given these things a lot of consideration and believe we have the answers for you.</p> <p>Arrange through your placement office to interview with our representative(s) on <b>February 28th &amp; 29th, 1980</b> with <b>Wynn Johnson</b>. We think you will like what you hear.</p> |
|---|--|---|

If you cannot fit an interview into your schedule, write or call:



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student's attention on the part where the error came in. Thus, little by little the professor complicates the problem but

# SUB Scripts

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## Ugly Man

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By COLLEEN HEILD  
CCRS Writer

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Consumer Reporting Service

Tanning can now be as easy  
as taking a shower — but

But just as too much  
showering can leave a person a  
little wrinkled, and a badly  
designed or incorrectly used  
shower can cause injury,  
tanning and tanning booths can  
also be risky for some people,  
experts warn.

The physicians also main-  
tained that commercial tanning  
salons offer no adequate pre-  
tanning examination by a  
competent doctor. As a result,  
people with chronically sun-  
sensitive skin will be allowed to  
use the tanning facilities, taking  
the risk of irritating their skin,  
they said.

Those with a sunburn may  
receive further injury by tan-  
ning in the booths, and persons  
taking certain medications  
whose ingredients increase skin  
sensitivity, such as tetracycline  
and oral contraceptives, should  
also avoid the salons, they said.

The doctors concluded that  
persons especially susceptible  
to harmful effects from  
ultraviolet rays are usually  
light-skinned, blue-eyed and  
fair-haired, leading Urbach to  
claim: "The people who can't  
get a tan want to tan the most."

The Academy and the FDA  
plan to develop a brochure to  
warn tanning booth consumers  
of the potential hazards in-  
volved.

In November, the FDA sent  
letters to manufacturers and  
operators of tanning booths,  
suggesting that special controls  
be implemented "as soon as  
possible," said Bill Rados, an  
FDA spokesman. The controls  
include: Timers in the booths,  
goggles for the users, and a  
warning sign posted to list the  
possible dangers of overex-  
posure. Ultraviolet bulbs used  
in the booths should also be  
partly shielded, the FDA  
recommended.

The FDA also advocates  
blocking off the booth with lines  
so consumers will know where  
to stand. Hand rails and proper  
ventilation to assure tem-  
peratures remain under 100  
degrees are also suggested.

"A worrisome number (of  
booths) didn't have these"  
before the FDA issued the  
guidelines, Rados said. "I don't  
know how many have them  
now."

If the operators fail to comply  
with the safeguards, FDA in-  
spectors could cite the tanning  
salons and conduct follow-up  
inspections. And if the FDA still  
isn't satisfied, "The options  
include seizing the establish-  
ment or taking them to court.  
We have the force of the law  
behind these suggestions," said  
Rados, who added that initial  
spot inspections will be made in

the coming weeks.

Since August 1978, when the  
first salon opened in Searcy,  
Ark., the FDA has received  
about nine complaints and  
several reports of sunburn  
injuries. One person reportedly  
started to faint in a booth and  
fell into an ultraviolet bulb.  
Some persons recently have  
complained that the bulbs  
burned their eyes, said Rados.

Immediate tightening of  
safeguards was recommended  
because a quick tan is apt to  
appear attractive in the winter  
months, Rados said. In ad-  
dition, the salons would be  
especially popular with persons  
who want a slight tan before  
traveling to the beach, he said.

While the salons appeal  
mostly to customers between  
the ages of 18 and 45, persons in  
their seventies and eighties also  
use the booths, said Susan  
Barden, vice-president for  
Tantrific Sun, Inc., the largest  
and oldest salon franchiser,  
located in Searcy.

In response to the der-  
matologists' warning, Barden  
said: "It (a tanning booth) is  
the same thing as the sun.

Dermatologists have been  
telling people for years to stay  
out of the sun but are now  
concerned with tanning booths  
because they're a new thing.

"I've had a lot of der-  
matologists send us their  
patients (for treatment).  
Dermatologists use the same  
bulbs as we do."

Many factors can influence  
the amount of exposure needed  
for a safe tan. "Even drinking a  
diet soda one-half hour before  
entering the booth can make a  
difference," she said.

Barden said the FDA  
recommendations include "a  
lot of things we were already  
doing." At the estimated 90  
Tantrific salons around the  
country, for example, a  
prospective customer must be  
screened by a booth operator  
and a computer before being  
allowed to enter the booth.

While clients may spend up to  
10 minutes in the booth, most  
usually begin with one minute  
of exposure and build their tan  
gradually, she added.

Tanning salons usually  
charge \$35 to \$50 for 20 visits,  
Braden said.

# Buyer's TANNING SALONS Guide

perhaps a bit more risky.

Like in showering, you can  
stand quietly in a small, rec-  
tangular enclosure for a minute  
or two bathing. But bathing in  
the heat of ultraviolet light  
instead of water.

And like in showering, where  
you come out a bit cleaner, the  
commercial tanning salon  
booth leaves one a bit browner.

"Tanning booths are all right  
if you want to get cooked,"  
warned Dr. Fred Urbach, a  
leading skin specialist who  
stresses the hazards of using  
ultraviolet lamps for a quick  
tan.

The tanning salon industry,  
however, claims the rays  
received in the booths are no  
more dangerous than those  
emitted from the sun.

Still, the Federal Food and  
Drug Administration is con-  
cerned. Parlors specializing in  
nothing but bronzed bodies are  
mushrooming around the  
country, with more than 1,000 in  
operation. And as a result of the  
"tanning boom" and based on  
investigations of alleged in-  
juries received in the booths,  
safety guidelines have been  
established by the FDA. Spot  
FDA inspections of parlors also  
will soon begin.

In addition, a group of 14  
dermatologists from the  
American Academy of Der-  
matology issued a warning Dec.  
5 against the use of tanning  
booths.

This panel of photo-biologists,  
who specialize in the sun's ef-  
fect of skin, stated that tanning  
creates dry, leather-like skin,  
purple blotches and scarring.  
Overexposure to ultraviolet  
rays often leads to skin cancer,  
they claimed. "Tanning is  
medically harmful," said  
Urbach, who is a Temple  
University dermatology  
professor. Speaking for the  
panel, Urbach added, "We don't  
think a tan is good for you. It's a  
status symbol."

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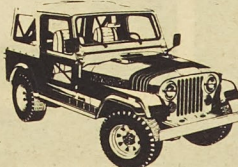
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# Puzzle

## Answers

DUFFY  
PATRICK

(Continued From Page 19)  
equation. The unsuspecting student rejoices. Surely I can work that one out! Receiving a

student's attention on the part where the error came in. Thus, little by little the professor complicates the problem but

## Classified

Attention House D: Did you know Joe Thuet's birthday is the Saturday, February 23? Make him feel wanted. Happy Birthday, Joe.

To KMNR: Thanks for the Genesis feature! From the Editor and his Little Brother.

## Lost

LOST: Ladies wrist watch, gold, digital numbers, if found please call 341-2764 and ask for Susan. Reward for its return. Please!



## Ground waves

(Continued from Page 10)

TODAY — The NFCB tape at 1:30 p.m. will be "Guess What's Coming to Dinner" and at midnite Dave Strayhorn, our new station manager, will be featuring what might be one of Joe Venuti's last professional recordings — "Joe at Chicago 1978" — have you noticed how many great musicians have died lately?

FRIDAY — "Fast" Fred Murphy will feature a mystery album at 8:30 a.m.

SUNDAY — Yours truly will feature "Count Talent and the Originals" on the Soul and Reggae show at 5 p.m. The album features Mike Bloomfield on guitar and a host of bay area musicians helping him out. The Rock and Roll Doctor himself — Dr. D will feature "Piano Blooze Orgy" on Blooze for Rolla at 8 p.m. — this album features a variety of legends and guarantees to be a treat. At midnite, Ronnie Haywood will Feature a Bob Jones-Earl Klugh collaboration titled "One on One" on Quadrajazz.

MONDAY — Careening J.R. will feature "Marrying Maiden" by It's A Beautiful Day—definitely a classic — at midnite on the RBR show.

TUESDAY — NFCB at 1:30 p.m. is called "Willy Nilly" at the artist feature will put "Fast" Fred back in the headlines and bringing you about 3 hours of Santana.

WEDNESDAY — Ric Davis will feature Rick Derringer's "Guitars and Women" at 9 a.m. That's it, and remember—Politics is hard drugs.

"Mark"

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Thurs.-6:30 p.m.  
Saturday-Afternoons

## Personal

1) Bermel — thanks for the terrific weekend.

2) Mo Jo — Happy 7th Day after Valentine's Day! Donna.

3) Sex, Drugs, Rock and Roll!

4) Suds — Had a nice Valentine's Day...Thanks!

5) Mike Heinze — How was the coney dog?

6) Dear Dave, you were the life of the chair party! Thanks

7) To my boyfriend, Do you wanna get funky with me! From your girlfriend.

8) Bod, I meant what I said! D.M.

9) Robox, Everybody has to sleep sometime!

10) Kelli, How did you get your hair so curly!

11) 6th Floor, Pretty Cute — Don't forget to tell Ken! Donna.

12) Eddie, say no more!

13) Tim, I thought you meant Rob, PLEASE give me another chance! Your Loving Sneezebag.

14) To four crazy "stick-in-the-muds": tell them all where to stick it!!!

15) Rocky, thanks for a great weekend. Im "yours!" — Kat.

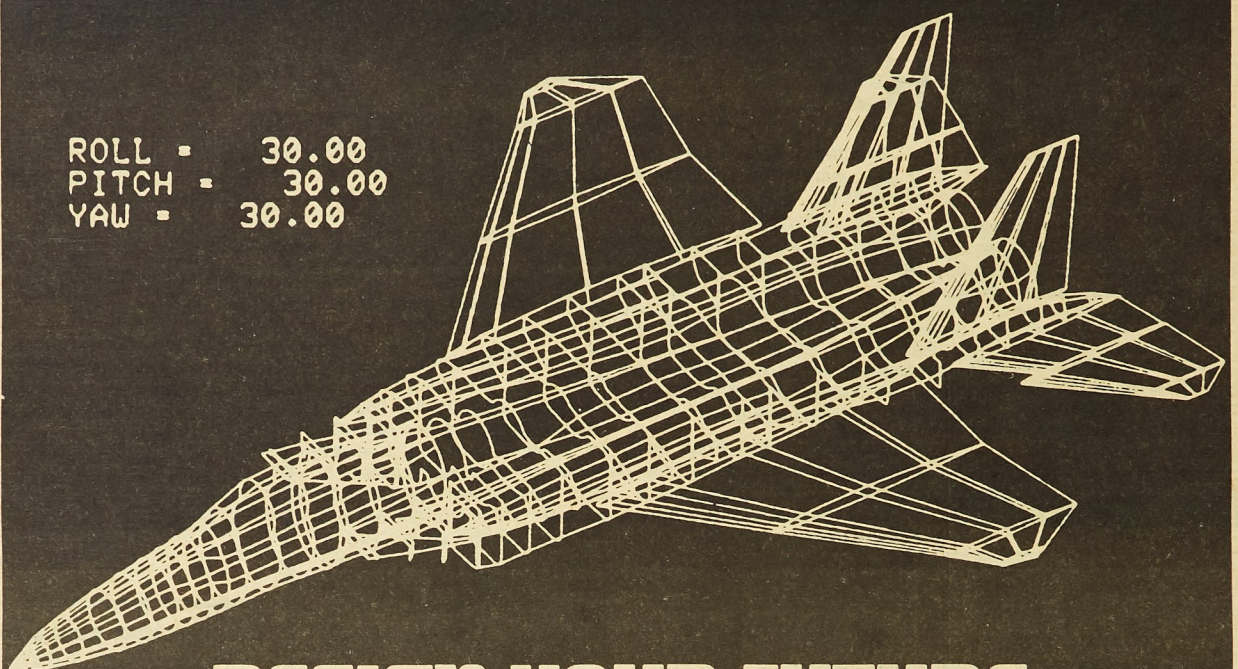
To the S.O.B. that stole a STUCO jacket at Kappa Sig's party Friday night you could have the decency to return the keys from the pocket. Marty 364-8648.

Eric D., remember the good time we had last weekend in Rolla — see a doctor.

Land C, want to see your bodies, give me a call, Dave.

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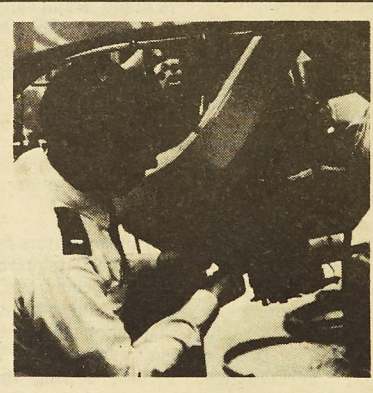
ROLL - 30.00  
PITCH - 30.00  
YAW - 30.00



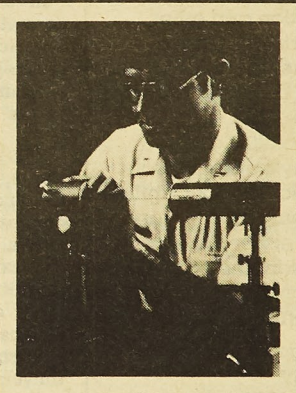
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College Attending \_\_\_\_\_  
Date of Graduation \_\_\_\_\_ Degree \_\_\_\_\_



# Miners Take Two Over Weekend

By CHRIS WILSON

The Miner men's basketball team began a three game road stint last weekend, with their annual Northern Missouri swing. For the first time in Coach Billy Key's 16 year career as UMR head coach, the team returned to Rolla with two victories and no defeats. This Saturday, UMR journeys to Warrensburg, Missouri to tackle the NCAA's top ranked Division II team, the Central Missouri State Mules, who clinched this year's MIAA championship.

Pershing Arena in Kirksville was the site Saturday night, as the Miners started their Northern trip against the Northeast Missouri State Bulldogs. The 'Dogs were attempting to avenge an early season loss to UMR on their home floor, but it wasn't to be.

UMR started fast, jumping out to a quick 11-4 lead. However, NEMS fought back, scoring the next seven points. Ossie Cobb scored at the 14:35 mark, producing the first tie score at 11-11. Following eight more ties and nine lead

changes, Gary Riechmann scored on a driving lay-up with 3:20 left in the half. The hoop made the 43-42, giving UMR a margin they held through the remainder of the first half. Fueled by 62 percent team field goal shooting, and 21 points by Derek Nesbitt, the Miners closed out the first 20 minutes with a 52-48 advantage.

Half number two was played every bit as well as the first, but just a little slower. UMR shot 57 percent, while NEMS again shot 61 percent from the field.

Jeff Kipp paced the Miners with 12 second half points. After the lead had changed hands four times, Kipp put UMR ahead for good. A jumper from the top of the key with 6:00 left to play moved the count to 75-74.

NEMS hung tough, never falling behind by more than four points. They cut the margin to one with 54 seconds remaining when Jim Tillman scored to make it 88-87. UMR refused to fold though, as Leonardo Lucas calmly cashed in two free throws with :22 to play, producing the final points of a hard fought, 90-89 triumph.

Derek Nesbitt led all scorers with 31 points, while Leo Lucas added 21 points and 8 assists. David Winslow of NEMS controlled the boards with 14 rebounds.

After their strong weekend performance, the Miners went west to Maryville, Missouri, to take on the Northwest Missouri State Bearcats. Again, the home team was seeking revenge for an earlier defeat, but again, the Miners were equal to the task.

After eleven minutes of play, there had been six ties and the lead had changed hands five times. NWMS led initially 4-0, and now led 21-18. However, it was the last they saw of UMR. The Miners then canned eight straight points to move ahead 36-21. Two scores apiece produced a 30-27 count with 1:46 showing on the clock, and then six more unanswered points provided UMR with a 9-point, 36-27 bulge.

The second half was nothing more than UMR running and Northwest chasing. After leading 42-34 with 15:23 remaining, UMR allowed

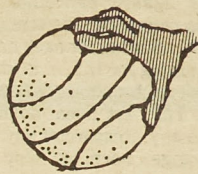
Northwest to get no closer than 10 points for the rest of the contest. The Miners made it easy for themselves by hitting a sizzling 75 percent of their field goal tries over the final twenty minutes. Calvin Horhn paced the second half attack with 12 points.

Derek Nesbitt again took game honors with 23 points (11-13 field goal attempts) and 10 rebounds, while Leonardo Lucas produced another strong performance, adding 16 points and 7 assists.

The victory moved UMR's MIAA mark to 4-5, while standing at 10-12 overall.

Following this Saturday's

rematch with MIAA champion Central Missouri State, the Miners return home to host the Southwest Missouri State Bears. Tip-off is slated for 7:30 p.m., Monday, Feb. 25. UMR will be attempting to turn the tables on the Bears, after their heartbreaking 2-point loss in Springfield four weeks ago. A big crowd always helps, so we hope to see ya' there. Good Luck, Miners!



## Sports

Thursday, February 21, 1980

MISSOURI MINER

Page 13

## UMR Signs All-State Rusher

SOURCE: OPI

The leading rusher in the state of Missouri for 1979 is coming to the University of Missouri-Rolla.

The Miner coaching staff announced this week that Fredericktown's Tommy Nifong, who led the Black Cats to a 10-0 regular season record last season, has signed with UMR.

Nifong put together some astonishing credentials at Fredericktown, highlighted by

last season's 1,892 yards gained on the ground. He scored 21 touchdowns during his senior year, and connected on 22 of 26 point-after-touchdown kicks and booted two field goals.

"Tom is a very durable back," said UMR Head Coach Charlie Finley of the prep tailback. "He has real good balance, and when he is hit often is able to get four or five more yards."

Nifong was also an out-

standing punter for the Black Cats, averaging 36 yards per kick during his senior year.

"It would be my hope that he could become another Terry Ryan for the Miners," said UMR assistant coach Bud Mercier. Ryan was UMR's top ground-gainer for three years.

Fredericktown will miss Nifong, who led them in rushing, punting and scoring all the years he played varsity football. Their program improved as he did, going from an 0-9 mark his sophomore year to

the 10-0 regular season mark of last season. The only blemish on the 1979 slate came in a post-season 38-13 loss to Country Day in the 3A state play-offs.

Nifong, a 5' 10", 180-pounder, holds 15 school records at Fredericktown. Besides leading the entire state in rushing, he also paced Missouri's 3A schools in scoring last year.

Nifong said he chose UMR because, "I enjoyed being around the coaches while I was here. It really seems to be the right atmosphere for me to be around."

He was the Mineral Area Activities Association's (MAAA) first team running back his junior and senior year, and an unanimous All-State first team selection at running back during his final season.

The three-year letterman also won letters in baseball and basketball for Fredericktown.

Also signed by UMR was Nifong's twin brother Terry. The 6', 156-pounder played

quarterback for the Black Cats, throwing for 400 yards and completing 39 percent of his tosses.

Finley sees Terry helping the Miners in the area of defensive back.

"He is a good athlete, who helped Fredericktown compile that 10-0 mark," the veteran mentor said. "He may also be able to play at wide receiver."

Coach Mercier echoed that thought, stressing "Terry has real good quickness and good hands."

Each brother plans on entering petroleum engineering at UMR.

"The people at UMR show a great amount of concern for your education," Terry said. "This is real important to me, because you have something to look forward to upon graduation."

UMR also announced the signing of a third prepster,

(See Nifong pg. 14)

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# Puzzle

## Answers

DUFFY  
PATRICK

(Continued From Page 19)  
equation. The unsuspecting student rejoices. Surely I can work that one out! Receiving a

student's attention on the part where the error came in. Thus, little by little the professor complicates the problem but

## Olympic Games

# IOC Feelings On Moscow

By CHARLES GRIFFIN  
National News Bureau

The furor over the Moscow Olympic Games leaves the world sorely divided. The President and many other Americans feel we should not go to Moscow as long as the Soviets are holding Afghanistan. Allied governments around the world are expressing similar sentiments.

But the International Olympic Committee (IOC) is firmly against cancelling the games or moving the site. And the IOC member for each nation — including the U.S. — is firmly against such action. They have to be. They are honor-bound to ignore any pressure of any sort to change, harm or stop the games.

IOC members are chosen for life and they are carefully screened. They are not chosen as representatives of their countries, but to be delegates to their countries to guide the Olympic movement within their countries.

Each Olympic committee in a country must be composed of representatives of the governing bodies of each sport represented in the games. Each of those sports must have an international federation with representatives from each country's sport federation or governing body.

And every member is sworn to abide by the rules of the IOC. They must be totally independent and autonomous and resist commercial, religious or political influence.

They cannot do other than say no to the President — their first duty to the games, not to their countries.

Reality is another matter. Western nations and non-communist nations do not generally attempt any sort of control over their sports to the degree that communist nations do.

If the games were being held

in America and the Soviets wanted to show their displeasure over an action of ours by boycotting the games, you can be sure that the committees under their control would immediately kowtow and withdraw their support for the games.

The very idea of amateur competition is alien to the communist nations. Where we have a clear demarcation between professional and amateur athletics — professionals get paid, amateurs don't — the communist countries operate on a non-profit basis and have no clear demarcation.

The rules of the IOC state that each athlete must have a basic occupation designed to ensure his present and future livelihood that he does not receive and never has received any remuneration for participation in sport.

Of course, many athletes have devoted their school years and the period just after college to attaining mastery of some sport, winning a medal in the Olympics, and living off commercials thereafter. But they were learning something else while in school and they had to support themselves afterward or depend on public or parental help to continue training.

The same is not true in the USSR. There an athlete is completely supported by the state as long as he or she can compete and win. They live and eat better than the general populace. They receive allowances for luxury items when on tour in foreign areas. They become coaches of their sport if they retire honorably. Their bodies are experimental playgrounds for Soviet scientists searching for ways to build better Russians through better chemistry.

In international events, Eastern European and Soviet judges have visibly favored

athletes from their own countries when getting a gold medal becomes a point of international prestige.

To the Soviets, there is a great deal of national prestige in being the best athletes in a given field, or in winning more gold than any other team. We do the same thing, but we don't put our hearts and souls into it — and we don't retire losing coaches and athletes to the north slope of Alaska.

My point, at long last, is that the Soviets see the games as a means to show political superiority. If our government is to attempt a demonstration against Soviet aggression short of going to war, boycotting the Moscow games or, better, drawing participants away from the games to another site is the very best means at hand to humiliate them.

We must recognize that the

## Nifong

Mike Schaefer of Creve Coeur, Mo.

The 6', 190-pounder was a tailback in high school, and according to all reports, was a triple threat.

"He could run, pass and was a good kicker," said assistant Chuck Broyles. "That is what really impresses us about Mike. He is an excellent athlete who can do quite a few different things for you out on the football field."

Schaefer played for Chaminade High School, and helped lead the team to a 6-4 record. His "claim to fame" during his senior year was actually fueled by an illegal procedure penalty.

Schaefer burst free on a 50-yard run, only to have the play called back due to penalty. On the next down...he exploded with an even longer touchdown run!

Finley and the rest of the coaching staff are not certain where Schaefer will help the Miners the most, and that is a happy problem.

"He has so much versatility, that we will just have to wait and see where he looks the best," Finley smiled.

IOC cannot go along with the boycott or a change in location. Undoubtedly there will be an Olympiad in Moscow, but the only participants should be Soviet client states and the IOC.

America should sponsor an alternate Olympiad without IOC sanction using every incentive to lure other nations to attend. A neutral site should be chosen, perhaps in Egypt. The rules of the IOC should be rigidly adhered to even though the members of the IOC now living will never accept any of the records established.

We must do this thing knowing full well that the Olympic games may never be the same. We should have denied Soviet teams entry to the winter games as well. We cannot, in good conscience, accept the Soviets as equals if they continue to act like sharks in a feeding frenzy.

We must use every economic,

political or emotional resource we have to humiliate and censure the USSR. Our government should actively seek to undermine and destroy the Soviet government.

Boycotting the games, refusing television coverage of their games, and withdrawing economic support from the IOC and the committees accepting the Moscow Olympiad is akin to the rich kid on the block getting mad and taking his ball away making it impossible for the others to play. But it is a move that must be done and it should be just the first step in a new aggressive policy to progressively destroy the megalomaniac oligarchy of the USSR.

Charles Griffin, our soft-spoken columnist lives in North Carolina. At least now. Lord only knows where he'll be next month.

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Koenig's 'Kraziness

# Eight Mile High Island Revisited

By BOB KOENIG

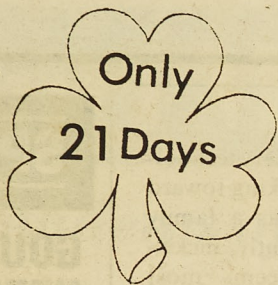
Here it is folks the first lucky winner in my "Any One can Write" (...this garbage for a week) contest. Remember if you apply not only will you receive that big 5 cents a column inch, but in addition your name will be kept strictly CONFIDENTIAL. No sir there's absolutely no reason for you to receive death threats (unless of course you should try to take over my job) and absolutely no salesman will call. I will protect your personal right to privacy regardless of personal cost (let's see 35 cents — 5 cents equals 30 cents times 50 column inches equals \$15).

P.S. If you don't contribute something soon I'm going to have to keep recycling ideas (like this dumb offer) and then where will you be.

P.P.S. The first draft I received of the story was slick and professional, utilizing short concise sentences and the minimum of adjectives. I of course, had to rework the piece considerably so that it would meet my usual standards.

In a place far far away and long long ago as time and space goes or perhaps in a small town in France (depending on your astrological sign and late night television viewing habits). There lived a man of great power and renown who had risen to the position of President of his little country. His name was Artair. Artair as well as being a man of power and renown was the possessor of a great deal of wisdom and had studied the ways of history and learned many valuable lessons. He had made particular study of the fails of the two Presidents that had preceded him, monsieurs Tricky and Chevey who had both come to bad ends. From his studies he concluded that Tricky had fallen because he had grasped so much power to

himself that he had no one left to blame when trouble started and that poor monsieur Chevey had made the classic mistake of surrounding himself with fool, confident, and capable advisors. When, as every real politician knows, an advisor's main function is to be such a bumbling clownish fool that the press and comedians will spend all their time watching and making fun of the advisor and won't have much time to play up the character faults of the President. Mon. Artair was in no way going to be trapped by this problem. He had in fact picked his own family with this design in mind. Enough now with the nice trivialities. I have a story to tell. So then to the adventure of Artair and the Golden Fleece (or how a crisis in the hand is worth several in the book).



Scene: An underground bomb-proof vegetable warehouse near the palace of Artair where the President and his closest advisors are met in secret session to decide the fate of the nation. Mon. Artair has selected his advisors in order to obtain the greatest possible number of viewpoints for any given issue. Gathered with him now are his military, legal, religious, foreign affairs political, congressional, public relations, scientific, intellectual, and national security advisors. In addition, three experts on internal affairs who specialize in areas of his nation that neither

President Artair nor any of his advisors are familiar with are present. These advisors are nicknamed (respectively after their regions) North, East, and West. The president is calling the meeting to order and begins with a few opening remarks.

Artair: Gentlemen before each of you is a folder holding a report on the events that have occurred in the past four days. These days have shown us the beginning of the end of many of our troubles and flowering of many new problems. We are all

well aware of the current situation and I wish to hear your opinions so I will now yield the floor for discussion. Yes, Mr. Adimit

Foreign Affairs: Gentile men, the crisis in Iwalk has reached a point of decision. I

feel that within the next two or three weeks it will become a thing of history, one way or the other.

Public Relations: Exactly! Mon. President the men in my department feel that no more

(Continued on Page 9)

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# Puzzle

## Answers

PATRICIA  
DUFFY

(Continued From Page 19)  
equation. The unsuspecting  
student rejoices. Surely I can  
work that one out! Receiving a

student's attention on the part  
where the error came in. Thus,  
little by little the professor  
complicates the problem but

# Engineering Chronicles

## GOULD INNOVATIONS

**CHICAGO** — A company which has consistently played a key role in the technologies of electronics, electromechanics, electrochemistry, and metallurgy is GOULD INC.

Since 1967, Gould has grown almost 16-fold to become the market or technology leader in more than half of its 4,000 electrical/electronic and industrial products.

The following stories highlight a few of the thousands, but perhaps little known, achievements engineered by Gould.



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## ZINC-AIR BUTTON CELL

Gould's development of the Activair™, a zinc-air battery, outperforms its competitors in hearing aids and other electronic devices. This product received the prestigious IR-100 award as one of the top technological developments of 1977.

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Combining performance and conservation, Gould's multiple-horsepower electric motors offer energy savings of up to 20% over conventional motors.

## Sealed maintenance free batteries

Gould pioneered battery technology by being the first to commercialize the completely sealed and maintenance-free automotive battery which now dominates the automotive market.

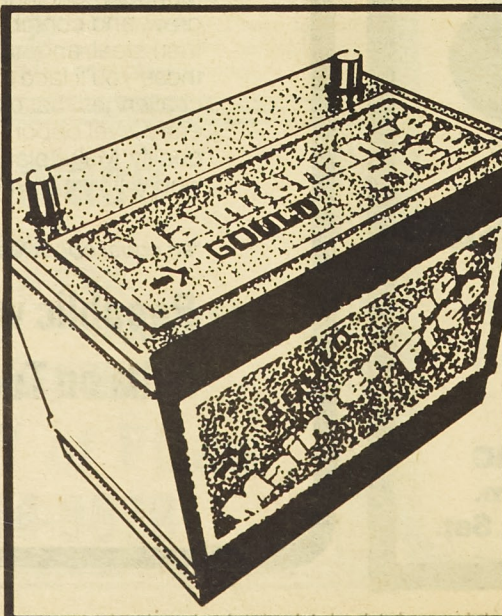
## Simulator systems

Gould's new flight simulators reduce training costs and risk factors associated with the actual operation of aircraft.

## Electric cars

Applying its expertise in battery technology, Gould engineers are working toward making the electric vehicle as a family "second" car practical. Currently, nickel-zinc battery technology seems most promising.

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ELECTRICAL PRODUCTS  
GROUP**



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### GOULD RECRUITERS HERE TO MEET ENGINEERING GRADS

University of Missouri, Rolla — 2/28/80 & 2/29/80

To attract top engineering and technical talent, Gould Representatives will be visiting the U of Missouri, Rolla campus on February 28th & 29th to talk with soon-to-be grads. Discussions will focus on engineering and technical career opportunities.

Combining maximum flexibility with comprehensive career development programs along technical and management routes Gould's Technical Development Program provides grads a sound basis for successful careers in engineering.

If you're a graduate in Electrical, Industrial, Mechanical or General — be sure to stop by the Placement Office and check on the details. If unable to meet with Gould's Representative, send your resume to: Gould Inc., Manager-Technical Development Program, 10 Gould Center, Rolling Meadows, Illinois 60008. Gould is an equal opportunity employer M/F.



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