

Any life on Mars?

Scientists hope Viking will give the answer

Craft lands safely, data flow begins

State Press reporter Britton Bloom traveled this week to the nerve center of America's effort to land a craft on Mars and unlock its secrets. He sent this dispatch.

By Britton Bloom

Pasadena — At 4:48 p.m. Mars local time, July 20, Viking I lander touched down on the Chryse Planitia plain of Mars.

In the Jet Propulsion Laboratory [JPL] in Pasadena, Calif. it was 4:53 a.m. Instruments in the Mission Control and Computer Center were still reading data relayed back about the final descent.

Due to the 19-minute lag in communications between Earth and the Viking craft, it wasn't until 5:12 a.m. that the loudspeakers announced the soft landing was successful.

And the whole jet propulsion complex exploded in jubilant pandemonium.

Detachment lost

All professional detachment was lost in the mission control room. The 450 scientists, engineers and technicians jumped out of their chairs in front of computer read-out screens cheering, applauding, shaking hands.

Dick Cooke, sitting at the 12-foot circular console known as the "Ace" position where all data from the Viking comes back to Earth for coordination, left his all-important seat and hurrahed with the half-dozen technicians surrounding him.

James Martin, Viking project manager, in a glass-enclosed office behind Ace stood laughing, waving to the other people in the control room.

Champagne spraying

In the press room, someone opened a bottle of champagne, spraying everybody close to him. Reporters cheered,

laughed, ran to typewriters after the hours of tension and boredom that make up waiting.

"I feel like I've been holding my breath," one reporter said, walking over to the coffee table that had been the center of so much idling in the last 24 hours.

"I feel like I've been holding my breath."

In the von Karman auditorium, normally used to show films in the JPL but now converted into a huge television studio, hundreds of people crowded around monitors listening to bulletins. California Sen. John Tunney was there along with science fiction author Ray Bradbury and Star Trek creator Gene Roddenberry.

Miles of Cables

Dozens of cameras crowded the auditorium, miles of cables tangled on the floor, studios lights hung from the ceiling.

The first photos were of the ground directly beneath the Viking lander, showing a sandy surface studded with fist-sized rocks.

JPL scientists had aimed the camera directly down to get pictures of the Martian surface as quickly as possible in case the cameras went out later. At least that way they'd have something for the geologists to study.

Incredible details

And the photos were clear, highly resolved,

"much better than we'd expected," one JPL scientist reported over the monitors. "The details are incredible," he said, but no one in the studio was paying attention. All eyes were locked on the first picture brought from the surface of another planet.

Fifteen minutes later the first strips of the panorama shot began appearing. Looking up, the Viking cameras started panning the horizon. Reporters, NASA scientists and JPL personnel crowded around the monitors, watching the

the foreground, dark stones in the background ("those look like shrubs") the shadow of the lander ("there's the footpad").

July 20 — Sol 0

At 7 a.m. Martin and Thomas Young, Viking project director, and four other scientists, high from the euphoria of success and the exhaustion of round-the-clock shifts, called a news conference to announce the successful landing. They told the world July 20, 1976 was Sol 0.

Due to different planetary rotation speeds, the Martian day is 36 minutes longer than Earth's day. So time on Mars is measured by the designation Sol, meaning a Martian day.

Perhaps the most important series of tests will begin on Sol 8, July 28, when a 10-foot arm will

which carbon dioxide and carbon monoxide with radioactive carbon-14 has been added. Light from a veon arc will illuminate the sample for five days, then the atmosphere will be drawn off.

Earth plants use sunlight and carbon dioxide to produce the organic material they live on. If the same holds true on Mars, microorganisms will convert the radioactive carbon gases into food. After the gases are drawn off, the sample will be heated to 625° Celsius to break down organisms and their organic components into vapor.

Geiger counters

The vapor will be directed into a test chamber. If any radioactive carbon is detected by geiger counters scientists will have an indication that a living

... an indication that a living organism

has turned the carbon gases into food.

reach out from the Viking lander and scoop up samples of Martian soil to test for life.

The Viking biology package is a one cubic foot

organism has turned the carbon gases into food.

A second test is the Gas-Exchange experiment. A soil sample will be incubated for 12 days in an atmosphere of helium, krypton and carbon dioxide. A nutrient solution made of amino acids and vitamins (everything microbes could possibly want to eat, according to Viking scientists) will be provided.

Every few days gases from the experimental chamber will be tested with a gas chromatograph for changes in the amount of methane, carbon dioxide, molecular hydrogen, nitrogen and oxygen. Any changes in the amounts of those gases will indicate that the metabolic processes of living organisms are going on.

Nutrient solution

The third biological experiment is the Labeled-Release test. In this test, the soil sample will be moistened with another nutrient solution labeled with radioactive carbon-14, and incubated for 11 days.

continued page 2



Reporters from all over the world milled around trying to get interviews with NASA and JPL notables.

By 6 a.m. the first pictures began coming in. The photographs appeared on monitors in narrow vertical strips, because the Viking cameras transmitted thin "line" pictures.

pictures that looked like an Arizona landscape.

We watched the strips come in, each new region drawing fresh amazement from the on-lookers. Excited reporters pointed out each new feature as it appeared on the monitors' screens — sand dunes, a path looking like a dry river bed, light-colored rocks in

box containing an entirely automated biology laboratory. It will perform three experiments to detect signs of life in the soil.

First experiments

The first experiment is the Pyrolytic Release test. A quarter-ounce of Martian soil will be incubated in Martian atmosphere to

More about

Scientists hope Viking will solve Mars puzzle

continued from page 1

Any microbes present will consume the nutrients and release carbon dioxide, carbon monoxide or methane containing radioactive carbon. Detection of such radioactivity will indicate that metabolism has taken place.

But such indications are not unquestionable proof that life exists on Mars. Interpretation could vary from one scientist to another, according to Dr. Harold Klein, Viking biologist team member.

barren patch of the planet.

Viking II is scheduled to land on Sept. 4 as a back-up, performing the same tests as Viking I in a different season and location.

Then too, all tests are designed to detect life as known on Earth which is based on carbon compounds. Some scientists acknowledge the slim possibility that life could exist based on silicon, which the Viking is not equipped to detect.

Silicon unlikely

"The likelihood that we

"Surely if we detect life on Mars the next question will be, what's it really like."

Inconclusive tests

The labeled release experiment, for example, could give a positive indication without living microbes being present, Klein said. By the same token, he added, negative results would not conclusively prove life is absent on Mars. The lander may have touched down on a

would recognize (life based on silicon) is so small, chemically we wouldn't know how to do it," said Dr. Gerald Soffen, chief project scientist. "I don't know how you'd do a silicon life-based experiment.

"It's such an exotic thing, it's beyond us. We wouldn't know how long to incubate it — a week, a year, a day.

What we did was to confine ourselves fundamentally to things that are terrestrial or like terrestrial analogs, and not worry about the exotic."

But if the results are positive they will shape the future of the space program, according to Richard Young, chief NASA biologist.

Not enough to know

"Surely if we detect life on Mars the next question will be, what's it really like," Young said. "It's not enough to know it's there, we have to find out what it is, is it something related to terrestrial life or is it different and in what way is it different.

"Obviously it calls for follow-on experiments. Either we go back to Mars to ask the second generation questions that Viking I can't ask, or we go to Mars and bring something back to Earth to study."

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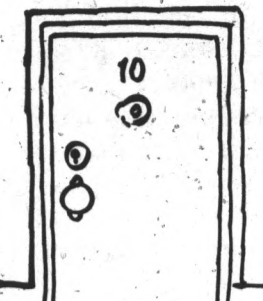
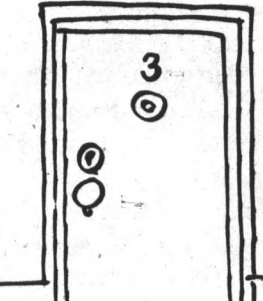
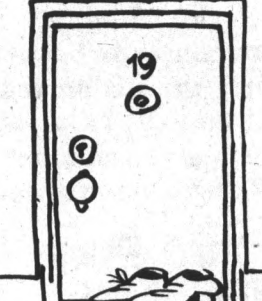
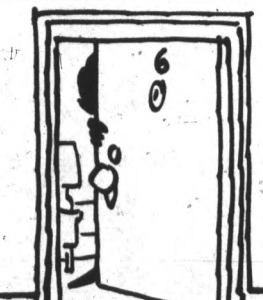
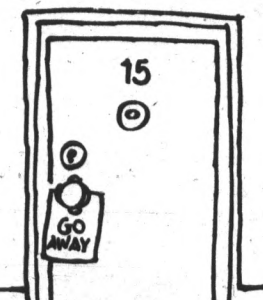
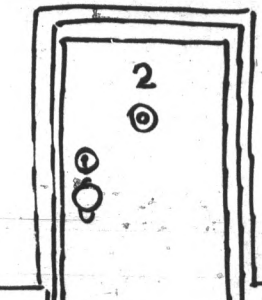
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Manuel Marin

Photo by Kerry Cannon

ASU counselor in race for Arizona House seat

By Maria Arellano

An ASU counselor is seeking the Democratic nomination to the Arizona House of Representatives.

Manuel "Manny" Marin, 27, coordinator-counselor for Special Services faces a tough 10-candidate race in District 6.

District 6, with an estimated 80 per cent Democratic voter registration, covers a wide area of south-central Arizona. It includes Lukesville, Ajo, Gila Bend, the Papago Indian Reservation, South Phoenix including the area south of Baseline Road, Maricopa, Sacaton, Stanfield and Casa Grande. Marin lives in South Phoenix.

Marin faces opposition from one Republican — Jim Hartdegen from Casa Grande — and eight Democrats. They are — from Phoenix: Russell Boshart, Robert Garcia and Ossie Owens, from Casa Grande: Joan Koenig and Doug Ballard. Also running are Lee Fitch from Goodyear, William Baldock from Maricopa and G. T. Alley from Ajo, Marin's hometown.

Marin, a 1974 ASU graduate in Business Administration, has been a counselor at ASU since February 1975. He is single.

"I want to run specifically in District 6 because I don't think the former representatives have truly represented their constituents because they have all

been predominantly from outside Maricopa County," said Marin.

"I know I can represent District 6 because I was born and raised in Ajo and later lived in South Phoenix. I've been politically active since the 60's and have learned the needs of that urban and rural environment."

Marin said the issues on which candidates place emphasis in-

clude the Equal Rights Amendment (ERA), Medicaid, violent crime and collective bargaining.

"I am pro-ERA, pro-Medicaid and strongly advocate collective bargaining, not only for teachers, but all public employes.

"Arizona is the only state in the union that doesn't have a Medicaid program. The op-

continued page 5



vicky vaughn

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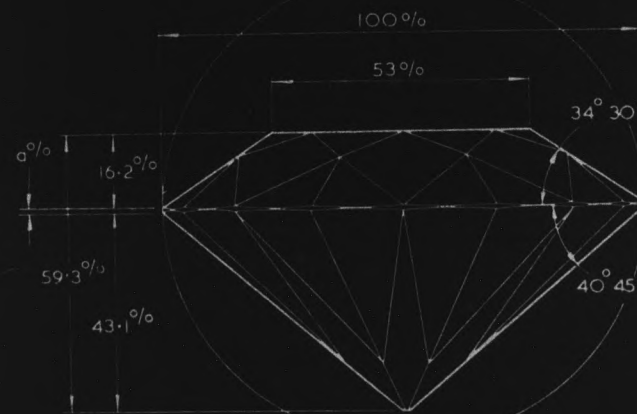
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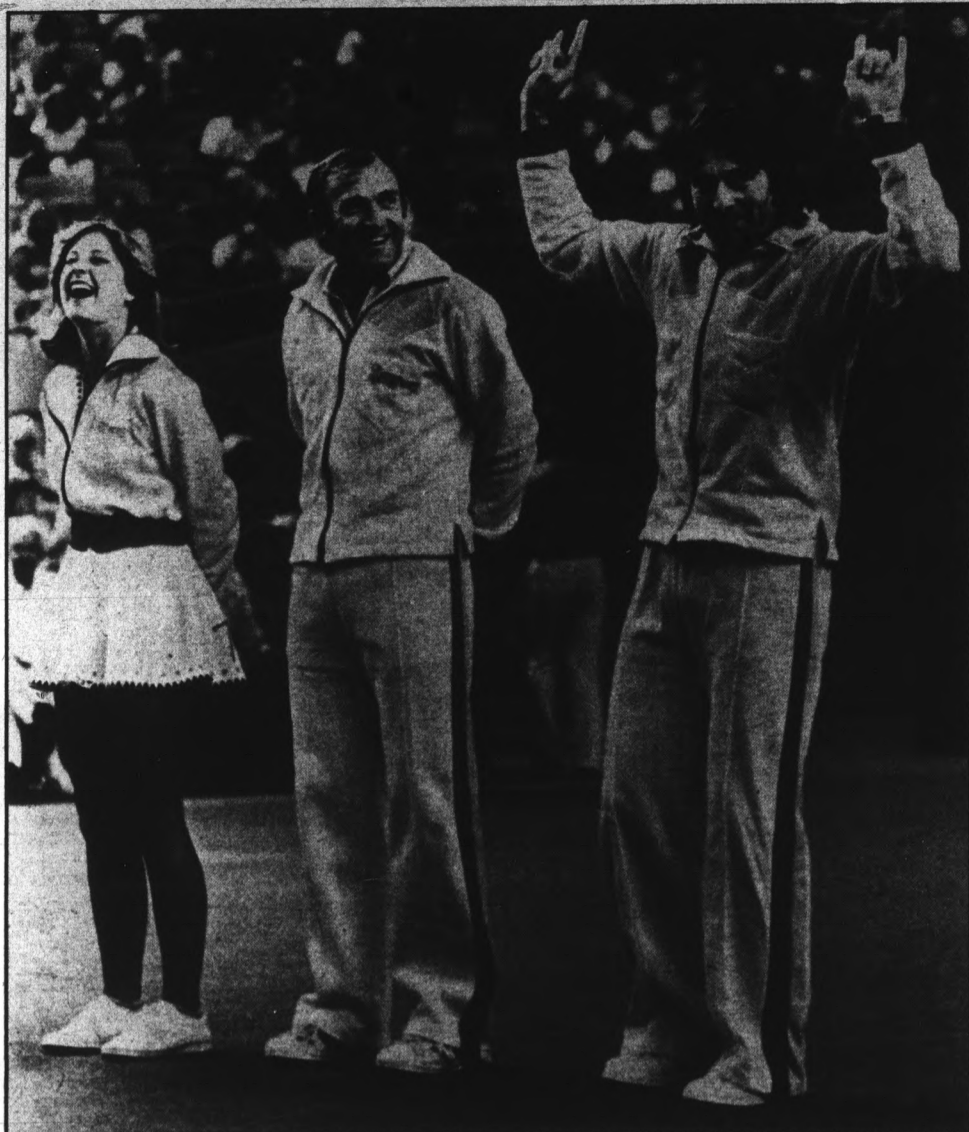
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No, Nastase has not defected from the Leis to the Racquets. The Racquets have their own answer to him and his antics in look-alike Angelo Levi.

Ilie Nastase

The tennis court jester

By Hal DeKeyser

Phoenix Racquets fans love to hate Ilie Nastase.

Whenever the raucous Romanian, now playing for the World Team Tennis (WTT) Hawaii Leis, comes to the Valley, Phoenix fans hoot, holler, heckle and generally raise hell with him and his antics.

Nastase is commonly credited with being the most ill-mannered and un-sportsmanlike player in professional tennis. But he's also one of the best. Without exception, he's the most entertaining.

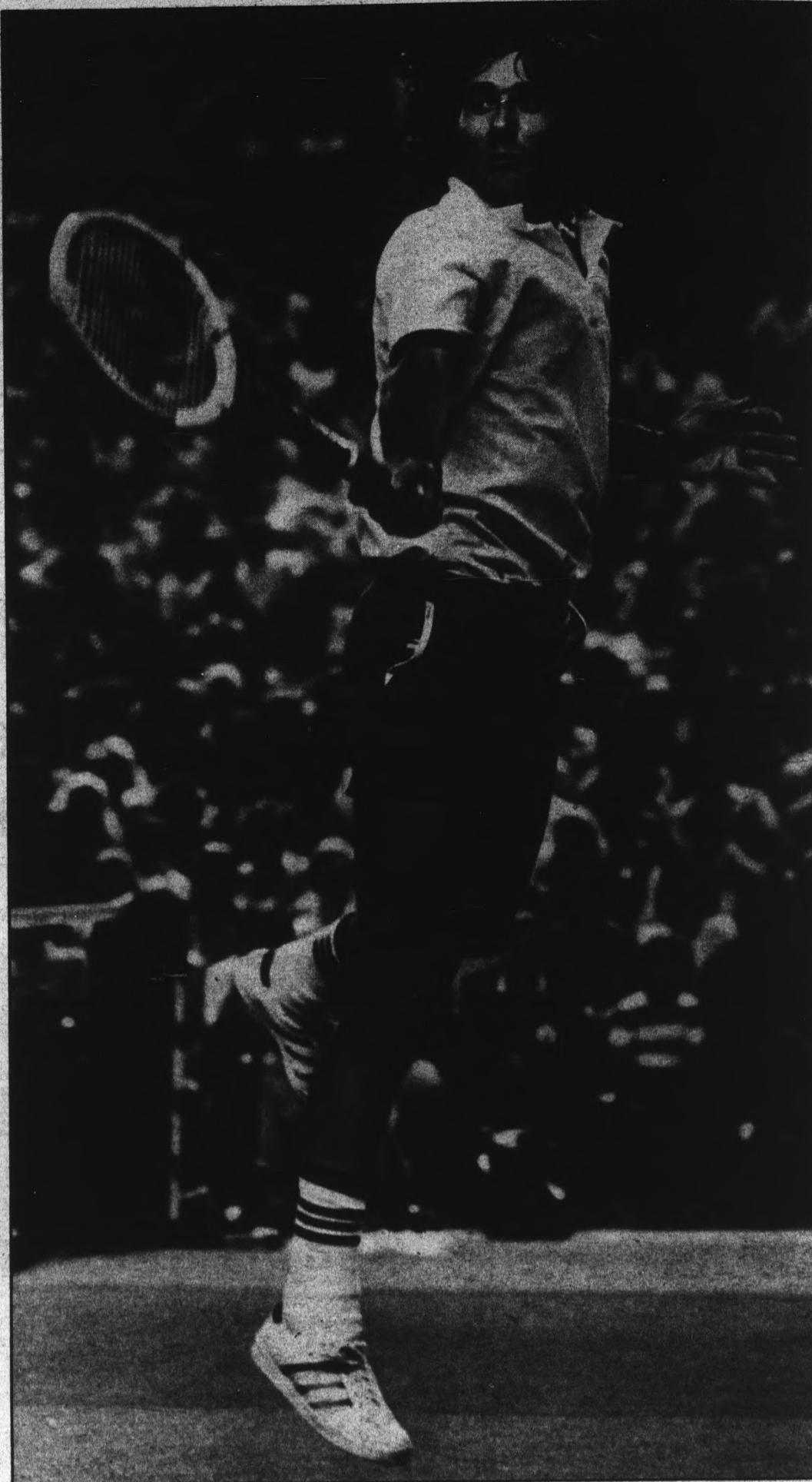
Nastase kept the Coliseum crowd in grins throughout the evening during Saturday's Racquets-Leis match. He made everyone a participant. Bouncing

balls off of his head, stuffing them in his mouth, harrassing the ballboys, fans and Racquets . . . Nastase has an endless entourage of antics, and he never tires of displaying them.

But team tennis is not the solemn, back and forth shush game played at Wimbledon. The crowds cheer and boo the play and players, and the players respond to the noise. It's a new game. It is Nastase's element.

The Racquets don't seem to mind his horseplay. They had their own Nastase — look-alike Angelo Levi. Because Saturday was Nastase's 30th birthday, they presented him with a cake.

They also presented the Leis a 27-23 defeat.

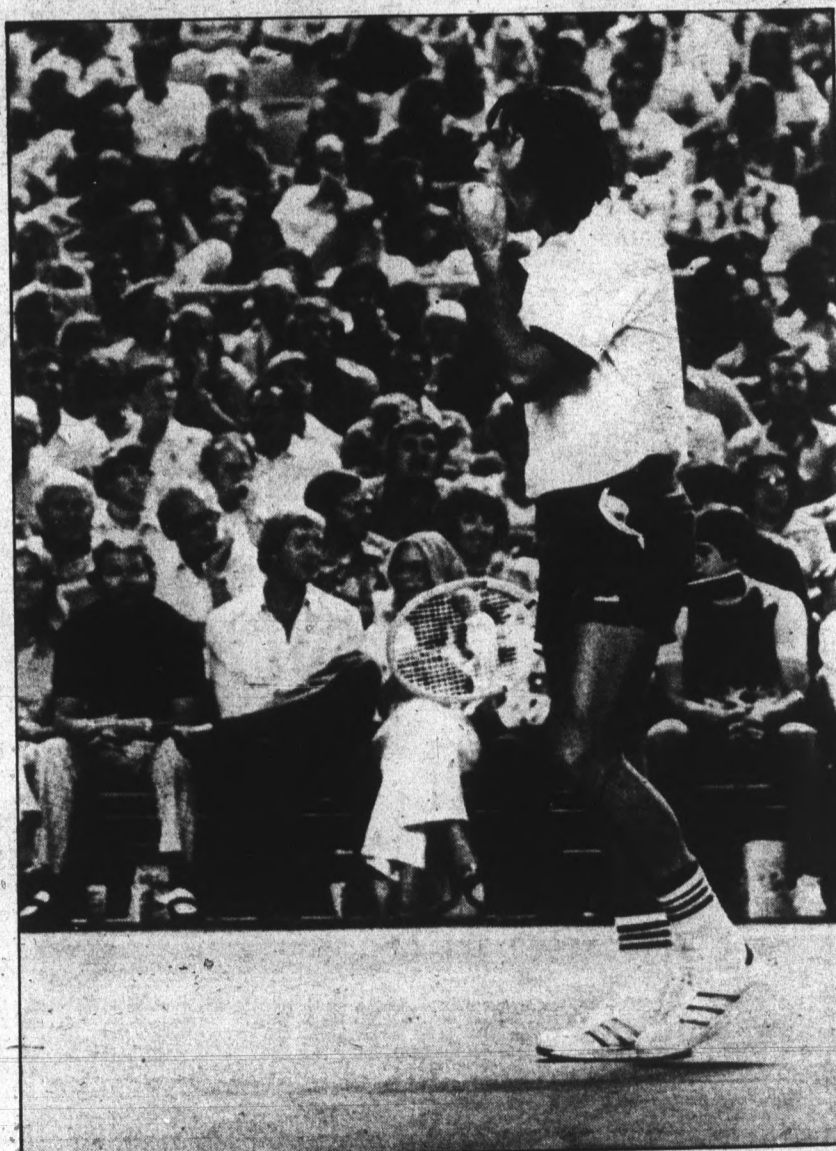


Ilie Nastase is known for his quickness in his feet, hands and mouth. His quickness was instrumental in his 6-4 defeat of Racquets Andrew Pattison in men's singles.



Photos by Hal DeKeyser

Saturday was Nastase's 30th birthday, and the Racquets celebrated by giving him a birthday cake. Nastase graciously accepts his present from a Racquets ball girl.



Ilie Nastase entertains the audience with his unusual court behavior. The crowd kept their eyes on Nastase continually, never certain what the unpredictable Romanian was going to pull next.

Solar experts will teach at ASU if proposal wins

By Leslie Green

Solar energy experts from the national Solar Energy Research Institute (SERI) will teach at ASU and participate in joint ASU-SERI research projects, if Arizona's recently submitted bid for the institute wins.

Arizona's proposal, delivered last week to federal energy officials states, "It is anticipated that there will be many joint SERI-ASU programs. The Arizona Board of Regents will confer university privileges on SERI staff members.

"These privileges include the opportunity to engage in teaching and joint research programs and to use ASU library and laboratory facilities."

The joint research projects will probably be partially funded by the federal Energy Research and Development Agency (ERDA), Jim Warnock, deputy director of the Arizona Solar Energy Research Commission said.

Arizona is competing with about 30 other state proposals. Warnock said strongest competitors are research groups representing New Mexico, New England, California, Florida and Georgia.

Arizona has a strong chance of winning the site bid, Warnock said. "I think we have a very fine chance

in that we have an ideal location and one of the best research institutes in the country."

Arizona joined with the research firm Battelle Memorial Institute of Columbus, Ohio earlier this year in an effort to attract the institute to Phoenix.

The sites offered for SERI

in the Arizona proposal include both an initial three-year facility and a 300-acre site for construction of a permanent institute.

The ASU Experimental Farm on Price between Elliot and Warner Roads, would be SERI's permanent location in Arizona.

More about

Counselor in race

continued from page 3

ponents of Medicaid say Arizona can't afford to institute it because it will go bankrupt, yet there is no evidence of this. No state has gone bankrupt as a result of having such a program.

"From a purely humanistic standpoint alone, I think we should initiate Medicaid. The need is there and legislators should respond to it."

Marin says District 6 candidates have placed even heavier emphasis on violent crime. "I think the emphasis should instead be placed on white-collar crimes. The Don Bolles case is a perfect example of the types of crimes that are going undetected in the state. These problems are prevailing because of loopholes in state laws. I feel this weakness should be immediately remedied."

Director of Special Services, George Carrillo said Marin has been extremely effective as a counselor.

"Manny has excellent rapport with students and the community. He is respected and well

liked by his co-workers as well," Carrillo said.

"Manny is sole coordinator of the Neighborhood Youth Corps (NYC) program, and he is doing a great job.

"Since May, when he became coordinator of the program, Manny has opened up jobs for students all over campus, in just about every department. His caseload of students has increased from about 60 students to more than 80," Carrillo said.

Hubert Ross, Educational Talent Search counselor, works with Marin during the school year. "I learned that his greatest asset was his ability to communicate.

"Manny has the ability to become a good politician because he is honest, determined and above all highly skilled in dealing with people."

Patt Cronmeyer, another Special Services counselor, agrees with Ross. "Manny assures people of his control over matters, and I think he can do this only because he is close to people and their problems."

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FILMS
2001: A Space Odyssey, starring Keir Dullea, Gary Lockwood and HAL, will be presented at 6:30 and 9:30 p.m., tonight and tomorrow in the MU Movie House. Tickets are \$1 with a Summer I.D. and \$1.50 without.

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PRODUCTIONS
Burch Mann's American Folk Dance, a company of 20 colorfully-costumed dancers, actors, singers and folk instrumentalists, will present "Untamed Land," a musical about the old West at 8 p.m., July 26 at Gammage Auditorium. Tickets are available at the Gammage box office and Diamond's Select-A-Seat locations.

☆☆☆
MUSIC
Loggins and Messina perform in two shows, at 7 and 11 p.m., tonight at Celebrity Theatre. A show is also scheduled Sunday evening. Tickets

are on sale for \$5.75 and \$6.75 at the Celebrity Theatre box office and Evolution Records and Tapes.

Jackson Browne will play highlights from his new album in addition to earlier songs in a benefit concert at 8 p.m., July 27 at Arcosanti. The Arcosanti site is about 60 miles north of Phoenix off Interstate 17. Take the Cordes Junction exit and look for

signs and people directing concert-goers to the show. Tickets are on sale for \$5 in advance at Evolution Records. Tickets are \$6 at the show.

The Phoenix Zoo will feature a local barbershop quartet, the **Sun Lasses**, at 7:30 p.m., July 23 and 24, at the zoo. The quartet uses no instruments; all the music comes from the blending of voices. Admission to the zoo is \$1.50 for adults,

including the Sun Lasses entertainment.

Melba Moore, who won a Tony award for her performance in "Purlie," will be featured in an 8 p.m. performance July 31 at Gammage Auditorium. Moore, who also starred in the play "Hair," will be backed up by an eight piece group. Tickets are available at the Gammage box office and Diamond's Select-A-Seat locations.

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So you dream up a plot, call up some of your actor friends, and go out and make a movie.

Mel Brooks' "Silent Movie" could have been made like that.

It seems as though Brooks had a bunch of leftover ideas from such movies as "Young Frankenstein," "Blazing Saddles," and "The

Producers." So he put them together for "Silent Movie."

It's a good film, although it isn't what one has come to expect from Mel Brooks. The individual sketches are funny, but they don't seem to relate to the movie as a whole. Things don't seem to flow smoothly from one scene to another.

There is plenty of slapstick, and this is where co-stars Marty Feldman and Dom DeLuise come in.

Posing as Brooks' movie-making sidekicks, Feldman and DeLuise are thrown, punched and slapped around like rag dolls.

But it all seems to contrived and unnatural. It's just too planned, organized.

The movie is devoid of sound except for music and sound effects — and one word, from famed mime Marcel Marceau. It's a novel idea, and comes across well.

You find yourself looking for speech at the beginning of the movie, but the hilarious sketches make you forget about sound shortly thereafter.

"Silent Movie" is worth seeing. Just watching Mel Brooks, Marty Feldman and Dom DeLuise make the movie an entertaining experience. But don't get your hopes up high. It isn't another "Blazing Saddles."

Arthur Moorhead

Ton of steel sculpture missing

A 2,000-pound steel sculpture is missing at ASU and it's a mystery to art department officials how anyone could steal or hide such a mammoth work.

The untitled work is by Tom Gibbs, who taught at ASU before resigning three years ago to work full time on sculpture in Dubuque, Iowa. Prior to that he had been away from ASU on a year's leave of absence.

In March 1972 he left two pieces of his steel sculpture at the University. Last month he returned to ASU and picked up one of the pieces which was located between the art and architecture buildings. At that time it was discovered that the other work, measuring four by eight feet, was missing.

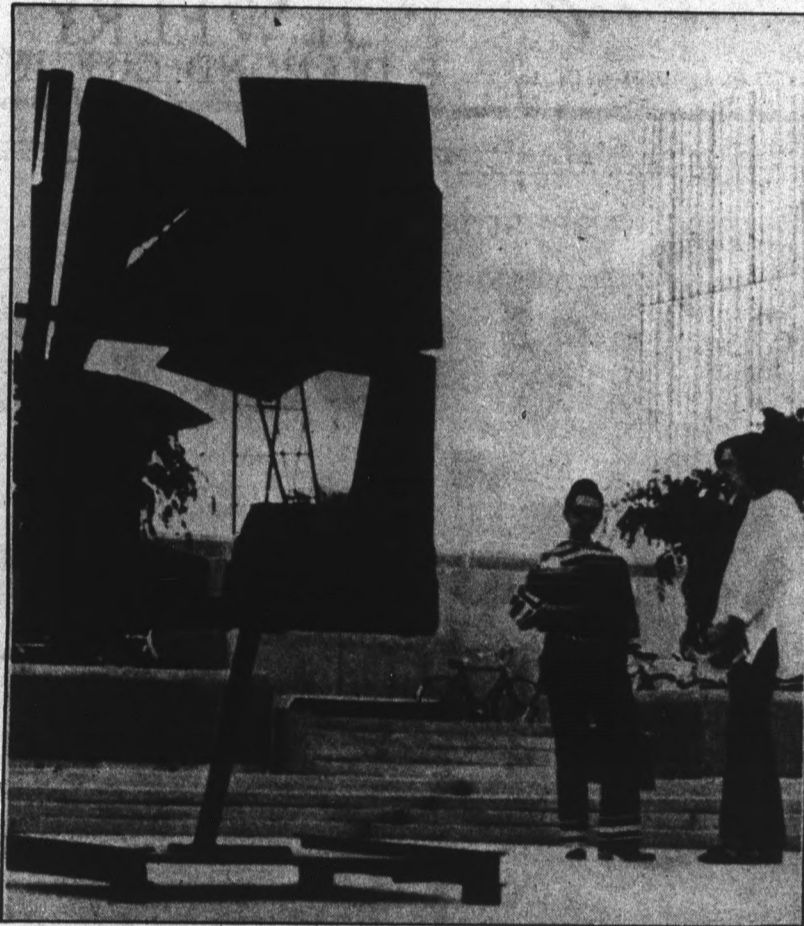
The massive work, mounted on a tall pedestal, had been moved from its original position between the art and architecture buildings into the sculpture yard to make room for other work.

Apparently it disap-

peared from the sculpture yard sometime last winter or early in the spring, said Clyde Watson, art department chairman.

Anyone who saw the

sculpture being removed from campus or who has information on its whereabouts is asked to contact Watson or Campus Security.



Who carried this off?

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Burch Mann's American Folk Ballet

Old West will rise at Gammage

The American West of 150 years ago will come to the stage of Gammage Auditorium when Burch Mann's American Folk Ballet gives a performance at 8 p.m. Monday.

"Untamed Land" is a lusty musical about the Old West, when pioneers pushed their wagons out from the last protecting forests into the emptiness and solitude of the great plains.

According to Mann, founder of the company and creator of the show, "The pioneer with his wife and children, his gun and sack of salt and apple seedlings, and his firm belief in dealing directly with God moved West toward the garnet and blood-red sunset."

She added, "The settling of the West stands as one of the great dramas in the history of Man. 'Untamed Land' captures this drama of westward expansion, the restless spirit of the pioneers, their thirst for

life, their exuberance, and their derring-do."

The handsomely staged production, featuring colorful costumes, is presented by a company of 20 dancers, actors, singers and folk instrumentalists.

Describing the company's performance, critic Walter

Terry said: "The ingredients of this shrewdly put-together show include scenes that are fast and noisy, quiet and contemplative, tender and religious. It all works... It is indisputedly American. And it is a humdinger of a show."

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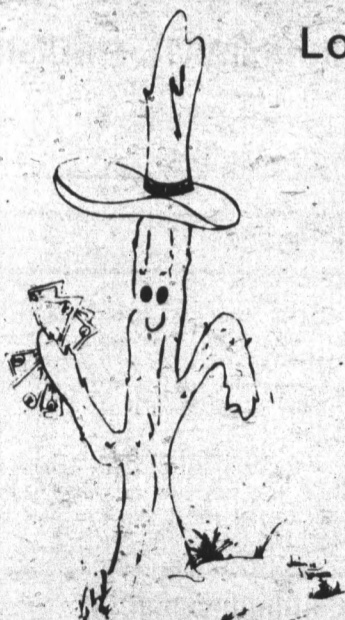
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Easy divorces brings bucks to law student

By Rosemary Noriega

A bewildered marriage partner searching the Phoenix phone book's "D" listings for an end to misery will be surprised to find a ready solution listed as "Divorce Packet — No Fault."

With the purchase of two simple snow-white forms, an Arizona resident can quickly end a marriage either weeks or decades old.

No-Fault divorce packets started in 1973 when the Arizona Legislature passed a law replacing "divorce" with "dissolution" of a marriage. The granting of a divorce to one of the parties was replaced with a dissolution of marriage granted to both parties. The process takes about 35 days.

When the law was passed, an enterprising ASU law student, David Crosby, designed a set of no-fault divorce papers and hired Lona Rozycki to market them for \$25 per packet.

Rozycki distributes the papers to stationary stores throughout the state. She also sells them in her Phoenix office, where she runs a divorcees' service and a foster child placement service.

Rozycki has had seven businesses, but No-Fault Divorce Packet is unquestionably the steadiest, she said recently.

"Whether the economy goes up or down, divorces go on," she said.

Rozycki's office is in a somewhat obscure location and hard to find. Still, she sells from 5 to 11 divorce packets in her office each day, and averages about two mail orders daily.

Only one person out of a hundred buying the packet takes the optional pamphlet explaining Conciliation Court services, she said.

"Usually when they get to me they've pretty much made up their mind. Usually they've tried Conciliation Court, they've tried everything and this is the end."

Most people who come into the office are sad and depressed, she said. Some are pleased at the simple process, usually people on their second or third divorce.

"They'll say, 'Where were you five years ago when I needed you?'" Rozycki said.

Her customers range from teenagers to "old, old people with gray hair." But she said about half of her business comes from people in their early twenties.

She estimates that more men pick up the packets than women, though it's usually the wife who

wants the divorce. The women send the husbands in to pay for the packet, she said.

Rozycki has many odd stories to tell of her divorce packet customers.

Every few months, she said, a couple will come to the office together and each purchase a divorce packet so they can unload their present spouses and marry each other.

One customer in a hurry was a man who had remarried and then found out an earlier wife had never divorced him.

Rozycki remembers one contentious divorcing couple who bought packets three times, because the wife kept tearing up the papers over a property dispute.

Tragic tales include that of a 65-year-old woman who had been married a month. She had sold all her possessions to join her new husband in Las Vegas, then received word he had changed his mind.

In all cases, Rozycki feels, the

new divorce law makes the process less painful than traditional divorce.

"When it's over it's over and you just dissolve it with a piece of paper. It's no longer against him or against her. It just dissolves."

3456

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Colorado River search ends

ASU football player's body recovered

Mohave County Sheriff's divers located the body of ASU football player Ainslie Washington in the Colorado River early Wednesday morning.

Washington, 20, disappeared Friday afternoon swimming alongside a canoe on a recreation class river trip with nine other athletes.

Divers began searching Saturday but were unsuccessful until about 6:30 a.m. yesterday, according to Capt. Bob Spear of the Mohave County Sheriff's Department. The body was located about two miles downstream from where Washington disappeared.



Ainslie Washington

He was found near Topock, Ariz.

Football coach Frank Kush said Washington was set to replace star cornerback Mike Haynes next year. He said team members and the athletic office were saddened and depressed by Washington's death.

"We were counting on him as one of our frontliners next year," Kush said, adding Washington had

performed well in spring training.

"These things do happen, but when they hit close to home" they hurt, he said.

Witnesses said Washington, of Santa Montica, Calif., dove into the river after a lost hat, returned to the canoe, then dove again. He never surfaced.

Funeral arrangements were pending Wednesday afternoon.

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Veterans may defer Fall fees

Veterans who have pre-registered may defer fall tuition payments with a promissory note, according to Mary Lou Williams, veterans benefits adviser.

The note, which must be signed between July 26 and Aug. 10, is used as a check to pay fees. It allows 90 days for a benefit check to arrive.

Veterans first sign up for benefits in the G.I. Bill office, ASB, 303. The G.I. Bill office prepares a list of all certified veterans.

Every veteran who has already completed fall paperwork will be on the list, Williams said. Veterans signing up next week must get a letter from the office verifying their status.

Then Veterans sign the note in the Admin. 109 at the accounts receivable section.

Vets are told to take the promissory note to the cashier's office, Admin, and pay fees. From Aug. 2 to 10 the Cashier will be located in the MU Coconino Room.

All payments must be received by the cashier before 4 p.m., Aug. 10.

If a veteran who signed up fails to meet the deadline, his registration schedule will be cancelled and the student must attend walk-through registration.

Williams suggests veterans come to the G.I. Bill office immediately after paying fees and show their fee receipt card. Without it, the veteran risks being terminated.

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