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Kush's suspension due to 'cover-up,' Miller says

By Jeff Sellers

Another former ASU football player testified Monday he saw Frank Kush punch Kevin Rutledge, while former Athletic Director Fred Miller testified he suspended Kush because of the alleged punch and an alleged cover-up.

Rutledge, a former ASU punter, charges in his \$2.2 million lawsuit against former head football coach Kush and others that Kush punched him, defamed him and harassed him off the team.

Miller testified he received several reports of the alleged punch and one report of the alleged cover-up prior to Kush's suspension.

Rick Lynch, an ASU athletic booster, made several calls to Miller in September 1979 and on Oct. 9, 1979 played for him a tape recording of former football player Gary Bouck saying he had seen the alleged punch, Miller testified.

On Oct. 10, 1979, former ASU players Steve Chambers, Bryan Caldwell and Bouck told Miller they had seen Kush punch Rutledge in a 1978 game against the University of Washington, Miller said.

He added that on Oct. 10 he brought to ASU President John Schwada the information from the three players, Sun Angel Foundation Executive Director Gene Felker's comment that he had seen Kush swing at Rutledge without hitting him and information that two people in Seattle had seen "some kind of altercation" between Kush and Rutledge.

Miller testified Schwada asked him for his recommendation.

"My recommendation was suspension, followed by a hear-

ing, and that we should sleep on it a few days, which we did," Miller said.

On Oct. 12, 1979, Assistant Athletic Director John Wadas told Miller former ASU assistant football coach Al Luginbill had said Kush told assistant coaches they might have to lie or perjure themselves over Rutledge's suit, Miller testified.

On Oct. 13, 1979, Miller dismissed Kush.

Kush's attorney, Warren Platt, asked Miller if it had "ever occurred" to him when he recommended suspension that the six reports he had heard — from the players, from Felker and from the two Seattle residents — differed too greatly to be a basis for suspension.

"No," Miller said, "it occurred to me that we had some inconsistencies. It occurred to me that we had players coming to me with information who had everything to lose and nothing to gain."

Platt pointed out that Bouck and Caldwell had been among the players who had signed statements provided by former recruiting coordinator Gary Horton saying they did not see Kush punch Rutledge.

"It occurred to me," Miller said, "that players would sign anything to escape the wrath of a very strong football coach."

Platt again asked Miller about the inconsistencies. Miller replied, "It occurred to me that a year had passed."

Platt also questioned whether Miller had information on the alleged cover-up meeting when he recommended suspension Oct. 10.

Miller said Kush's claim that he did not go near Rutledge after his poor punt in Seattle indicated a cover-up to him.

"The cover-up as I viewed it was that he (Kush) structured himself so far away from the incident," he added.

Also on Monday, Caldwell testified he saw Kush punch Rutledge although Rutledge partly blocked his view.

"I observed Kevin running off the field," Caldwell, a member of the punting unit, testified. "Coach Kush grabbed him by the face mask and delivered the punch."

Asked by a defense attorney how he could see the alleged punch when his view was partly obstructed, Caldwell said, "I could tell there was a punch delivered and contact was made."

Caldwell added he was uncertain whether the alleged blow came from an open hand or a fist.

He also testified the statement he signed Sept. 8, 1979 saying he did not see the alleged punch was written by teammate Robert Kohrs. Caldwell added he signed without realizing what it stated.

"We just weren't taking the matter too seriously," he testified. "I was just trying to help out the program or help out Kush however I could."

Former defensive football coach Bob Owens has testified the statements were taken informally at a team meeting.

Miller testified Owens told him about the alleged cover-up meeting the night of, or the day following, Kush's suspension.

Six-year-old Joanne Jimenez, with a little help from her father, flies her kite at Tempe's Kiwanis Park Sunday. More than 50 kite flyers came out to the park for Kite-Fest '81, an annual event sponsored by the Kites-Up Club of Tempe.

Staff photo by Roger Feldman

Go fly a kite



news briefs

from the Associated Press

Navajos ask judge to veto ski resort

WASHINGTON — A group of Navajo Indians asked a federal judge Monday to veto a proposed Arizona ski resort, saying its construction would anger their gods by desecrating a mountain range sacred to the Navajos and Hopis "since long before the white man first came to the Americas." "The San Francisco Peaks . . . are regarded as being like a living body which must be protected from digging, gouging, or other unnatural disruption," attorneys for the Navajos and an allied group of Hopis told U.S. District Judge Charles Richey.

Panel says to forget deadlines on clean air

WASHINGTON — The National Commission on Air Quality recommended Monday that two key deadlines be dropped from the Clean Air Act and that industry be given a freer hand to develop pollution-free areas. The majority of the 13-member commission said in a final report to Congress that air pollution control can be streamlined and made less restrictive without unduly jeopardizing health. But dissenting members complained the proposals "go beyond compromise."

Court to rule on union membership question

WASHINGTON — The Supreme Court said Monday it will decide whether workers with access to management's confidential files can join a labor union, a case which could affect secretaries and thousands of other white-collar employees. The justices said they will hear National Labor Relations Board arguments aimed at granting the right of union membership to most such workers. The board is seeking to overturn a 7th Circuit Court of Appeals ruling that barred anyone dealing with confidential front-office matters from union rolls in Illinois, Indiana and Wisconsin.

Court retains suit over evolution education

SACRAMENTO, Calif. — A court battle reminiscent of the historic scopes "monkey trial" opened Monday after a judge refused to dismiss a civil suit brought by fundamentalists who want California schools to teach the theory of creation alongside evolution. Superior Court Judge Irving Perluss, saying that the plaintiffs had a right to try to prove their children's rights were being violated, rejected the dismissal motion by a state lawyer at the outset of a heavily publicized non-jury trial.

Kid bandit 'only play-acting'

NEW YORK — A 9-year-old boy who authorities say may be the nation's youngest bank robber was only play-acting when he held up a bank with a toy gun — and was actually surprised when the teller handed over \$118, his lawyer said Monday. Attorney Mel Sachs said his 4-foot, 5-inch, 96-pound client, identified only as Robert, used the money to buy french fries and hamburgers, a musical watch and a movie ticket.

Judge OKs Methodists' \$21 million settlement

SAN DIEGO — A judge approved a \$21 million settlement Monday designed to end litigation over Pacific Homes Inc., a bankrupt chain of retirement homes sponsored by the United Methodist Church. The settlement drew overwhelming support last week at a meeting in Pasadena of 1,400 lay and clergy representatives of the church in Arizona, Hawaii and Southern California. A special fund-raising program to raise \$10 million this year was approved by the delegates Friday with only a dozen or so dissenting.

Committee supports lottery post confirmations

PHOENIX — State lottery director George Taylor said Monday he hopes to return as much as 40 percent of the gambling revenues to the state while paying more than 45 percent in prizes. Taylor made the comment as the Senate Finance Committee recommended unanimously the confirmation of Taylor and five members of the new State Lottery Commission appointed two months ago by Gov. Bruce Babbitt.

South Africa booted from UN General Assembly

UNITED NATIONS — South Africa, twice before expelled from the U.N. General Assembly, was kicked out again Monday. The world body voted 112-22 with six abstentions to accept a credentials committee's recommendation that South Africa not be seated because its white-minority government does not represent the majority of South African people. The United States voted in the credentials committee to accept the South African delegation, and voted against the committee recommendation on the floor.

Soviet spokesman presses for summit

MOSCOW — As the 26th Soviet Communist Party Congress prepared to vote for a new party leadership, a leading Soviet spokesman said Monday that Washington and Moscow need not rush into a summit meeting but should hold an "active dialogue" in preparation for such talks. Leonid Zamyatin, a party spokesman, told reporters that "a certain preparatory period may pass" before any summit between Soviet President Leonid I. Brezhnev and President Reagan. "Of course, it is better to have a prepared meeting than an unprepared one," he said.

Salvadoran leader 'ready' to seek end to fighting

SAN SALVADOR, El Salvador — Jose Napoleon Duarte, president of this nation at the center of a growing U.S.-Soviet antagonism, said Monday he is ready to meet with representatives of the Socialist International to seek a political solution to the bloody rightist-leftist conflict here. At the same time in Panama, Bernt Carlsson of Sweden, the secretary general of the Socialist International, said the most important leftist and guerrilla groups in El Salvador had accepted the group's mediation offer.

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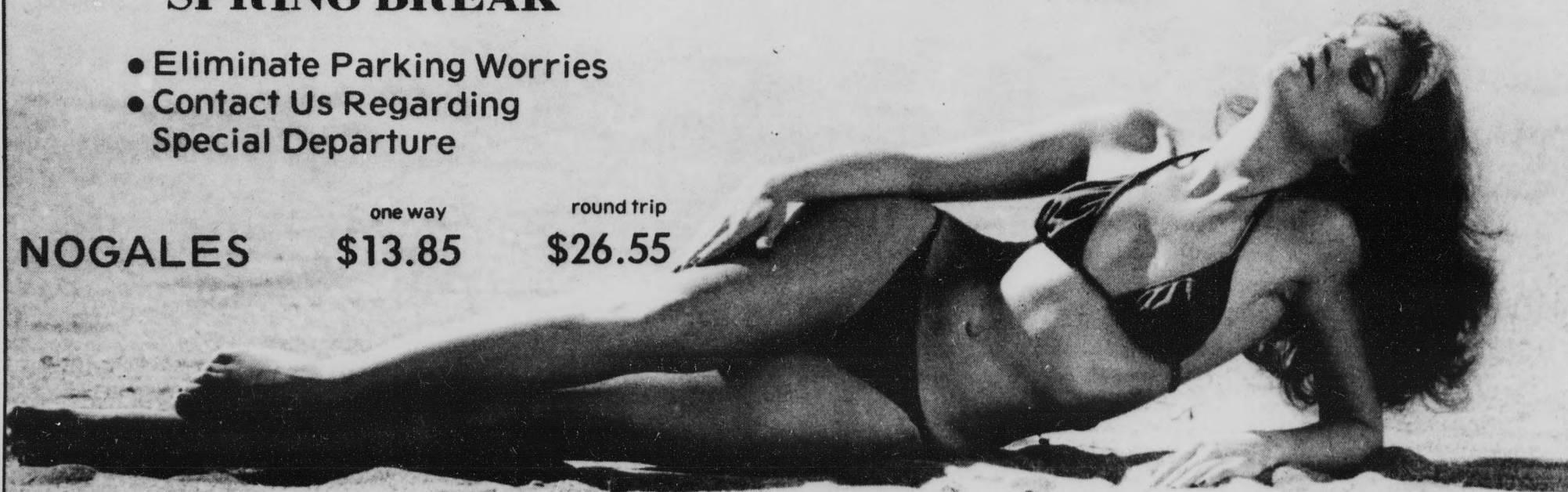
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Over half fail or drop out

Math failures raise questions

By Michael Cast

Students and instructors do not agree on why self-taught math courses at ASU have a higher withdrawal and failure rate than other courses.

Dr. Harvey Smith said the failure and withdrawal rates for Math 115, 117 and 118 are high, but lower than they were with the previous method of teaching the courses.

Rather than attending lectures and taking tests in the usual fashion, students in these courses work on their own, aided by tutors.

According to statistics provided by the math department, out of 285 students enrolled in Math 118 last semester, 117 withdrew and 42 failed.

Smith said a quarter of the people who take self-taught math courses do not show up for the second exam.

"We found that slightly more than half of the students taking Math 118 (trigonometry) either dropped the course or failed," Smith said. "This is not unusual because Math 118 is a companion course to Math 270 (calculus), and a lot of people find they don't need to finish 118 to get the background they need for calculus."

Students in the self-taught classes are required to take weekly tests. A student who fails a test can keep taking it until he passes, but any attempt beyond the first can earn the student only a passing grade of C at most on that particular test.

Some students enrolled in self-taught math classes said they have difficulty learning the material and would prefer the traditional lecture-oriented format.

Paul Vaughn, a freshman zoology major, said the self-taught courses are difficult for students without a good math background.

"The tests don't always cover the same material as in the book, and you get no partial credit for problems," he said. "If you answer a question worth five points and forget something as nitpicking as a minus sign in the answer, you lose all five points."

Greg Blair, a junior marketing major, said he was dissatisfied with the indifferent role of the instructors.

"The instructors show up with tests and tell you whether you passed or failed. The tutors grade the papers and give us help. I don't know what the professors are here for," he said.

Steve Potter, a junior engineering major, said, "With the intermediate algebra and trig courses, they seem to be preoccupied with shoving through as many bodies as they can without in-depth lectures," he said. "Obviously this is a cost-saving measure. I'm really kind of disappointed."

Though optional lectures are held twice a week, students said they often fall behind the lecture schedule and find no help in lectures advanced beyond the progress they have made.

But Smith said students are at fault for not passing the classes.

"They don't follow the advice given to them when taking the placement test, and take courses they are not prepared for. If a student takes a course at the proper level the chances for success are much better," he said.

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The trouble with our age is all signpost and no destination.

—Louis Kronenberger

opinion

On verbosity and wordiness

Many have noted, as of late, that the use of cliché phrases and buzzwords in the written mode is on the upswing.

While this may not, at first glance, present problems for some, it nonetheless poses difficulties for many, especially those in the fields of journalism, English and communications, to name but a few.

In accordance with past trends, scholarly papers and business letters have been but two of many offenders. Granted, while copious quantities of fine, scholarly material are undoubtedly communicated in the aforementioned material, important ideas may nevertheless be lost in the shuffle of words, so to speak.

FURTHERMORE, inasmuch as some may choose to deny it, there are probably more than a few who incorporate such devices in attempts to "pad," so to speak, their written material. The reader will doubtlessly agree that such activity may indeed be of the lowest caliber.

It is important to note that such activity is not limited only to the previously mentioned papers and letters. Instructors in educational institutions frequently complain that their

Dan Pingelton

opinion editor



students can no longer "get to the point" in their writing.

AS THE CASE MAY BE, poor writing for class assignments is not unlike that of poor writing for professional undertakings. Note that the reverse of the above may even be a greater vice than the previous aforementioned.

In accordance with the practices that are on record, it is not unfair to demand that a change of current *status quo* modes of expression be proposed.

The above change must begin with the classroom instructors, for it is in his, or her, sphere of influence that the problems — indeed, some may be inherent — begin, and more importantly, with regard to this situation, expand.

The party of the first part (the instructor) must realize that the party of the second part (the student) needs assistance in alleviating habits that have accompanied him, or her, throughout much of his, or her, adult, not to mention pre-adult, life.

THE STUDENT must first and foremost be made aware of any blatant shortcomings he, or she, has in the area concerned. Once identified, such repetitions of error can henceforth be eliminated, thus enabling the student to become more efficient in necessary writing skills.

In the long run, such improvements are bound to increase the standards of quality which a socialized citizenry can, indeed must, constantly strive to better.

SO, IN THE END, the goal that is foremost in the minds of many appears to be readily attainable only if these changes be implemented. That goal — hardly an incontrovertible one — is nothing short of insuring that a good time be had by all (reader and author alike).

letters

Tamburo got cheerleader budget

Editor:

In the Feb. 27 State Press, it was reported that Dick Tamburo, ASU athletic director, said "he never received a formal budget request from the cheerleaders." The facts speak otherwise.

Because of the budget mix-up as reported in the article, Mr. Tamburo received two copies of the same budget request. The first was dated Jan. 20, 1981, and addressed to

Chris Spinella, ASASU activities vice president, with copies to Mr. Tamburo and to Dr. Harold Fearon, chairman of the Intercollegiate Athletic Advisory Board. The second was dated Jan. 30, 1981, and addressed directly to Mr. Tamburo, with copies to Mr. Spinella and Dr. Fearon. In each instance, the material presented addressed the problem of administrative control as well

as that of a proper funding source for the cheerleading program.

Furthermore, Mr. Tamburo has a rather thick file containing information including previous memoranda pertaining to this entire matter. In addition, he has been updated on the situation through personal contact by Mrs. Linda McCay, cheerleader advisor, and myself on numerous occasions in his office at

the University Activity Center.

I would hope that the matter may be resolved at the earliest possible time. The program and the students who participate in it deserve at least that much.

Allan Frazier

Assistant to the
Dean of Students

Campus slob trash local beauty

Editor:

Every day I become increasingly disgusted at the sloppy attitude of students and faculty on campus.

A quick walk around campus at any time of the day will net mountainous amounts of garbage piled on every sidewalk and under every shrub.

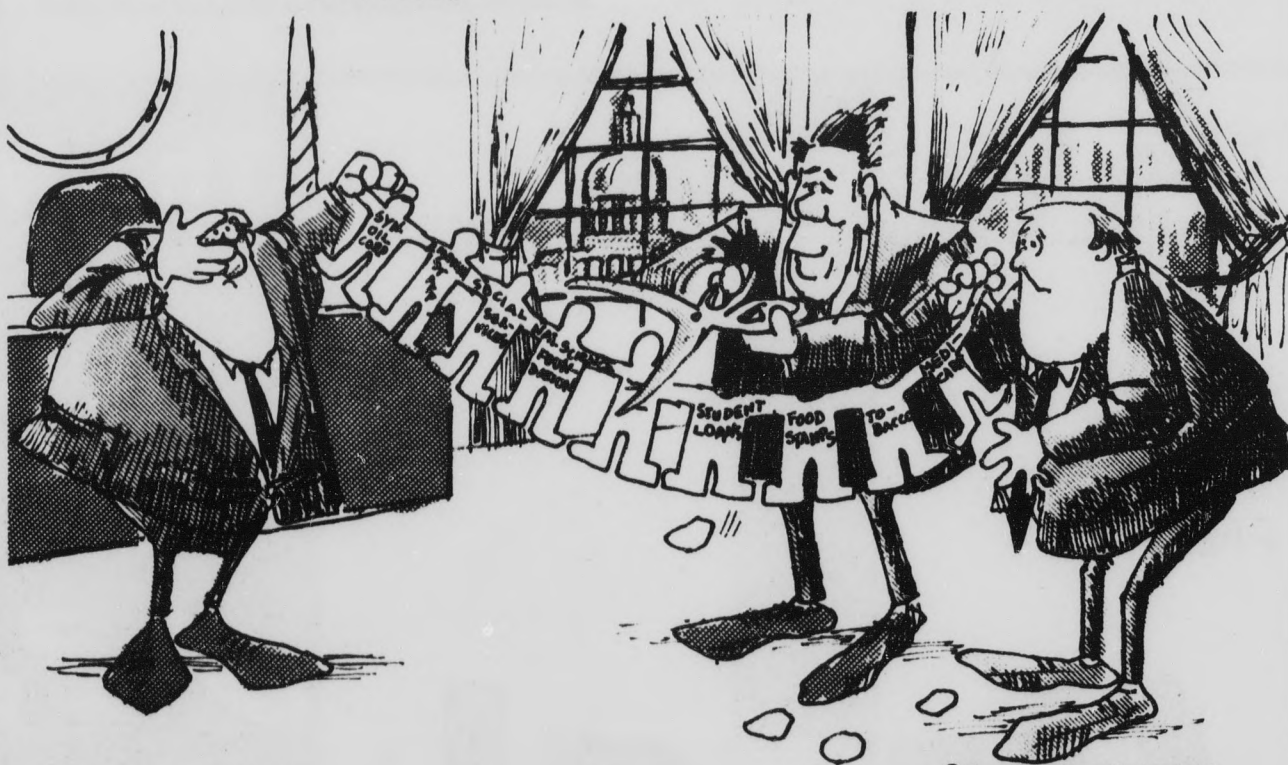
Everyday I see students and faculty alike deposit their coffee cups, gum wrappers, half-eaten candy bars and other assorted litter wherever their hands happen to drop. The really irksome fact of it all is that these people are within spitting distance of a trash can. Just what is it that makes

people too lazy to walk to a trash can only four steps away?

Wake up people! We have a beautiful campus. We have to spend three-fourths of our time here. Why live in filth? Next time you see an inconsiderate slob leaving a trail of garbage as far as the eye can see — for God's sake — tell the fool. I will.

Adrianne Flynn
Junior
Journalism

Portik



PORTIK © 1981 STATE PRESS

Gay Academic Union offers help

Editor:

In regard to the recent coverage of gay news in the State Press, I am surprised the issue was not brought down to a local point of view. As a campus paper, I would think it only natural to cover what is happening in the gay movement right here at home. While I understand all

campus organizations cannot be represented in the State Press, I consider investigation into Gay Academic Union the next logical step to the series of articles that have recently been published.

The GAU offers assistance to the gay community at

both ends of the spectrum. It is sensitive to the needs and confusion of a person just coming out and political for the person who has adjusted to a dominantly heterosexual environment and who is willing to take a stance on his or her personal rights.

The GAU meets Thursday

nights in the MU with support in personal, political, social and religious aspects of homosexuality. Gay is good. It is an issue that requires education, openness and understanding of gays and straights alike.

Jennifer Heaslip
GAU Vice President

MU's free matches burn non-smoker

Editor:

Considering that the majority of ASU students do not smoke, will someone please tell me why it is necessary for the Memorial Union to distribute free matches for the small number that do?

When ASU wastes money, they do it with style. Expensive wooden matches, enclosed in an even more expensive box made of glossy paper with raised lettering and the ASU seal are given without charge to anyone who asks for them. This

extravagance is totally uncalled for.

Come to your senses and stop using my student fees to promote the continuance of such a disgusting habit. Clean up the MU; provide another student job on campus. Use the money where it's really needed.

Maynard R. Dodson
Sophomore
CIS

STATE PRESS

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The State Press is the only newspaper exclusively published for and circulated on the ASU campus. The news and views published in this newspaper are not necessarily those of the ASU administration, faculty, staff or student body.

New Waves

By Gary Markstein



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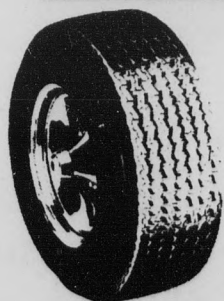
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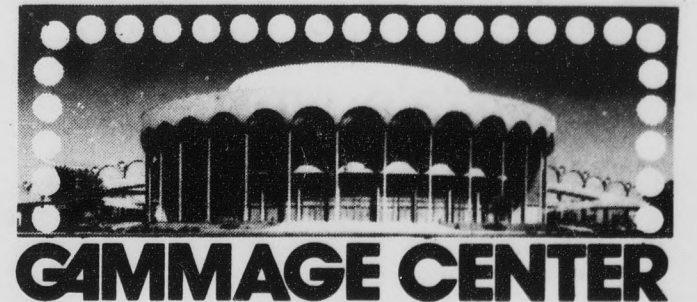
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please call the Gammage Box Office, 965-3434.

Mexican fare favored, but pasta's on the rise ASU food director says,

By J.J. Martin

Although Italian food is making a comeback, Mexican food is still numero uno with college students, ASU's food service director said Monday.

"Mexican food is right up there with apple pie and hamburgers," Steve Radakovich said. "Overall, ethnic foods are the most popular. However, despite a decline in the mid-70s, spaghetti and noodles are big and coming back."

Fifteen or 20 years ago, the most popular item in college dining halls was roast beef.

According to Tom Gibson, ASU's senior food service director, the single most popular dish today is still roast beef.

"The solid meats, like steak and roast beef, have always been and probably always will be the favorite meal of college students," he said. "They've been here as long as we've had dining halls."

Gibson said some 575,000 pounds of food are consumed every year at ASU.

"We'll spend almost \$2.5 million on food this year," he said. "And a significant portion of that (\$1 million) is spent on meat alone. Now that's a lot of calories."

During the last few years students have shifted toward eating lighter foods, he added.

"Overall they're trying to stay away from the starchy foods," Gibson said. "I think it's partly because of increased calorie consciousness. The old 'meat and potatoes' meal is beginning to fade and the salad bar has become very popular."

Radakovich said the salad bar is a favorite because of the

"Overall, ethnic foods are the most popular. However, despite a decline in the mid-70s, spaghetti and noodles are big and coming back."

increase in selection.

Gibson said the consumption of desserts hasn't changed at all in the last 50 years with ice cream still being the favorite.

While the choice of favorite foods may fluctuate, one thing seems to be a mainstay — complaints.

"The students have been complaining about the meals ever since there's been food in the residence halls," Gibson said. "The biggest gripe is that there's not enough variety and it gets somewhat repetitive. But, if you ate at your favorite restaurant for some 250 days, three meals per day, it'd be a problem also."

Radakovich said communication is the key to dealing with the complaints.

"The most common way is to tell the manager and then he tells us," he said. "We also have a suggestion box and a formal on-the-street survey. In the system we have set up now we get both criticisms and we find out what we're doing right."

Gibson said because of the economy, the food service is in an evolutionary stage.

Education's future to be topic at annual luncheon conference

The annual Education and National Policy Conference, co-sponsored by the ASU College of Education and the Arizona Department of Education, is scheduled for 8 a.m. to 4:45 p.m. March 20 at the Registry Resort in Scottsdale.

A registration fee of \$25 (\$15 for students) includes lunch. Participants are urged to register by Friday.

Additional information is available from Dr. Alan Brown, College of Education, 965-6788.

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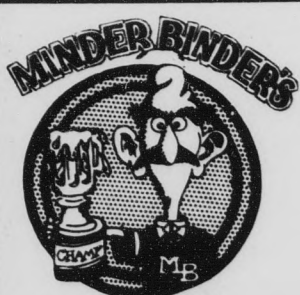
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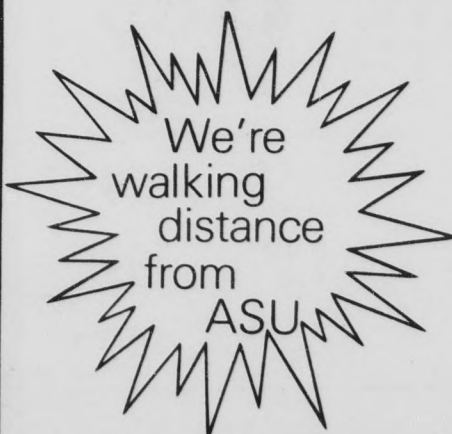
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Rain

Stadium ground study stalled

By Gaye Gould

Monday rains delayed the start of a geochemical study to determine Sun Devil Stadium's ground condition, according to a structural engineer in charge of the project.

Bill Gustafson, manager of Sverdrup and Parcel's structural engineering department, the firm conducting the \$98,000 study, said the geotechnical work will begin when the rain stops.

Gustafson said a superintendent, a soil engineer and three crew members, will drill about 90 feet to determine the supporting capability of the soil.

He said the soil engineer will be lowered into a hole to examine sub-surface move-

ment and soil dampness.

This is the second phase of foundation studies which began Sept. 29, 1980.

In a \$78,000 structural failure analysis completed Feb. 1, 1981, engineers determined the stadium's north end had stopped sinking, at least temporarily.

Gustafson said there has been no additional movement of the stadium during the past 100 days of monitoring.

Bill Phelps, ASU associate vice president of Business Affairs, said Sverdrup will give University officials their recommendations for repairs when the study is completed in May.

Phelps said the Business Affairs Office is not presently concerned with legal action against any of the builders of the \$11 million stadium addition.

He said ASU officials will evaluate possible legal action later.

University officials closed 5,447 seats last Sept. 9 when cracks were discovered in the main tunnel and access ramps of the stadium's north end.

Distress caused cancer, Lynch contends in suit

Rick Lynch, an athletic booster who surfaced in the news when former football coach Frank Kush's attorney accused him of an orchestrated effort to get Kush fired, filed a \$2.45 million suit Friday against three Valley newsmen and three players on the 1979 ASU football team.

Lynch is seeking \$1 million in damages from Jerry Guiber and Tim Tyers, sportswriters for the Phoenix Gazette; \$1 million from KOY radio announcer John Moynihan; and \$15,000 each from John Mistler, Steve Bratkowski and Arthur Lane, football players for ASU in 1979.

The suit charges the defendants with negligent and intentional infliction of emotional distress, conspiracy and invasion of privacy.

Lynch contends he is suffering from incurable cancer brought about by the emotional stress of negative publicity in the Kush affair.

Lynch, Beeline dragstrip operator, became a figure in the ASU football scandal in 1979 when the Phoenix Gazette and KOY news reported five players, including the three named in the suit, told ASU President John Schwada Lynch had asked them to lie about Kush.

Lynch steadfastly denied conspiring to have Kush fired or asking players to lie.

"Those players never went to see Schwada," he said. "We're going to let the public find out what the truth is, and this (the suit) is the only way left available to me."

Lynch said one other 1979 ASU football player may be named in the suit later.

Lynch has a \$50 million defamation suit pending against Kush; Rep. Pete Corpstein, R-Paradise Valley; Harry Cavanaugh, attorney for Kush; Bob Baker of radio station KJJJ; Mike McCloy of the Associated Press; Moynihan; and Tyers.

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Director urges shift to

By Michael Cast

The development of hydrogen energy to replace fossil fuels can prevent America from entering an unprecedented economic calamity and a war in the Middle East, according to the Arizona director of a national research organization.

Harry Braun, director of the Arizona chapter of the Hydrogen Organization for Progress, Education and Cooperation, said the United States must urgently seek other sources of energy.

"Our country is financially hemorrhaging about \$2 billion a week for foreign oil and our government is seriously planning for war in the Middle East to retain the oil supply," he said.

Braun said the most promising substitute for fossil fuels is hydrogen, the most abundant element in the universe.

"The technology to make hydrogen a feasible fuel alternative is there," he said. "We need to get people working on conver-

ting our economy to a hydrogen economy."

Braun said the greatest advantage of hydrogen as a fuel, in addition to being renewable, is its pollutant-free combustion. Burning hydrogen produces water vapor as exhaust.

"I would like one day to fly over L.A. and see pristine air instead of the choking smog that now blankets the city," he said. "When the public is more aware of the potential of hydrogen energy, I think we'll see the U.S. at its best."

The Hydrogen Organization, which lists prominent scientists, corporate executives and educators among its members, was born last year when hydrogen enthusiasts decided to establish a national forum to promote hydrogen research.

The organization set up state chapters, with branches at several universities, to inform the public of progress in hydrogen research and motivate students to major in areas that will aid in advancing research. A chapter recently opened at ASU.

Dr. Vernon Sater, an ASU professor of chemical engineering, said the greatest obstacle to making hydrogen a viable alternative to fossil fuels is the energy required to manufacture it.

Although hydrogen, the fusion fuel of stars, is the most common element in the

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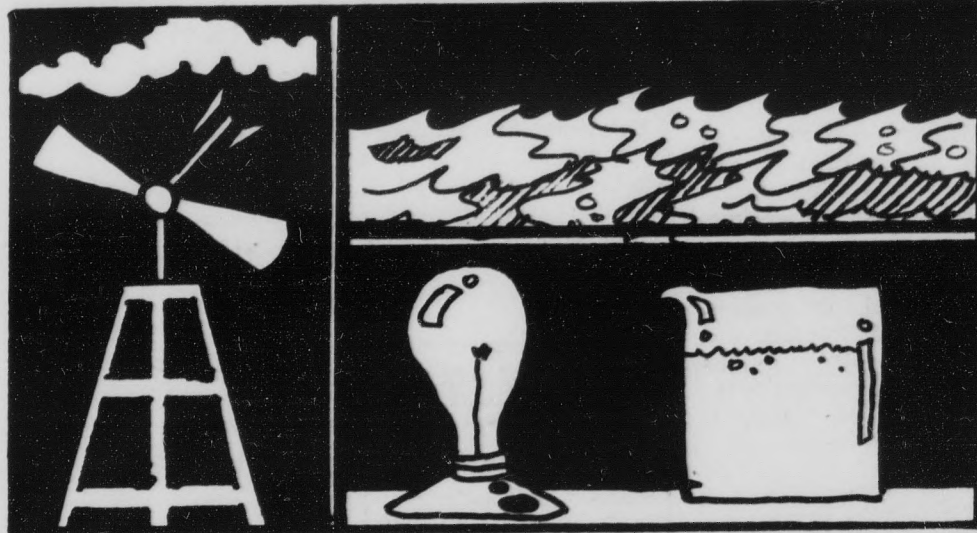
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(The type of application necessary is indicated in parentheses after the program description.)

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SEOG:
Supplemental Educational Opportunity Grants are federal grants available to undergraduate students. They range from \$200 to \$2000 per year. (ACT application)

SSIG/ASSIG:
State Student Incentive Grant/Arizona State Student Incentive Grants are available to Arizona undergraduate residents who have substantial need. SSIG must be matched to a private scholarship which is administered by ASU and recipients of either grant must be full-time students. These grants range from \$200 to \$2000 per year. (ACT or Basic (Pell) Grant application and SSIG application)

NURSING GRANTS:
Available to nursing students showing exceptional financial need. Applicants may, be either undergraduate or graduates, but they must be enrolled in the College of Nursing and receive approval from the College of Nursing. Grants can range up to \$2000 per year. (ACT or Basic (Pell) Grant application and Nursing Supplement.)

NON-NEED BASED PROGRAMS

Some students may not be considered financially needy according to the ACT standards. However, there are alternative programs for which need is not considered.

GRANTS are gift aid and do not have to be repaid.

LEEP:
Law Enforcement Education Program Grants are restricted to full-time, in-service law enforcement employees enrolled in a degree program which relates to criminal justice. Grants are limited to the cost of in-state tuition. Only those in-service employees who are continuing LEEP recipients may be considered for these grants. (LEEP application)

SCHOLARSHIPS are gift aid and are not to be repaid.

PRIVATE DONOR:
A number of scholarships are made available by private donors including businesses, civic organizations and private individuals. The criteria for selection of recipients is usually determined by the donor and the scholarship is processed by the ASU Scholarship Office in Matthews Center. (General Scholarship application)

DEPARTMENTAL SCHOLARSHIPS:
Scholarships are available through many of the academic departments and colleges of the University. Students are encouraged to contact their departmental chair or college dean regarding these scholarships.

LOANS must be repaid. Those not based upon financial need include:

FISL/GSL:
Federally Insured/Guaranteed Student Loans are jointly administered by the colleges and state or private lenders (usually commercial banks or credit unions). These loans are not based upon need and are available to students enrolled as at least half-time undergraduates or graduates. Most Arizona lenders require full-time attendance, however.

The interest rates on these loans are federally subsidized and you pay either 7 percent or 9 percent, depending on when the first loan was made. After January 1, 1981, all first time borrowers will pay 9 percent. Interest does not accrue until the first loan payment is due. This is usually 6 to 9 months after you graduate or leave school. Maximum loan amounts are set by the federal government but individual lenders may loan lesser amounts. Undergraduates may not borrow more than \$12,500 if classified "dependent" or \$15,000 if classified "independent". Graduates may borrow up to \$25,000 including all their undergraduate loans. Yearly maximums are \$3,000 for independent undergraduates, \$2000 for dependent undergraduates and \$5,000 for graduates. Repayment begins 9 months after graduation or less than full-time attendance.

Although Parent Loans were created by the 1980 Education Amendments, most states are currently studying this possibility but have not implemented the program (FISL or GSL application, depending on state of residence)

LEEP:
Law Enforcement Education Program Loans are available to continuing pre-service LEEP loan recipients only. The student must be full-time law enforcement or criminal justice majors. The loan amount may only equal tuition costs for pre-service students not yet employed in their field. In-service LEEP students may borrow the difference between in-state and out-of-state tuition if they are classified out-of-state by the ASU Fee Status Office and they have a LEEP GRANT for the in-state portion. (LEEP application)

SHORT-TERM EMERGENCY LOANS:
Are available to full-time undergraduate and graduate students who have completed at least one full semester at ASU and are in good academic standing. They are available only for emergency educational expenses, e.g., registration fees, books and supplies, room and board, personal incidentals and transportation. The maximum personal loan is \$200 although one semester's registration fee may be borrowed under certain circumstances. Repayment must be made within 90 days or on the first day of the last month in the semester, whichever comes first (Short-Term Loan Application)

EMPLOYMENT

ON-CAMPUS HOURLY POSITIONS:
Are available on a limited basis through the Student Employment Office in Matthews Center. Openings are posted on the bulletin board outside the office and students are encouraged to apply for any listed positions.

OFF-CAMPUS POSITIONS:
Are advertised with the Career Services Department in the Academic Services Building. Students should check their bulletin board and register with that service if they desire off-campus employment to supplement their income.

SCHOLARSHIPS are gift aids and are not to be repaid.

UNIVERSITY SCHOLARSHIPS:
A limited number of scholarships are awarded to undergraduate Arizona residents of high academic standing and financial need. (ACT application and ASU Scholarship application)

LOANS must be repaid. Those based upon financial need include:

NDSL:
National Direct Student Loans are federally subsidized and are available to both undergraduate and graduate students. Repayment begins 6 months after graduation or less than half-time attendance. The interest rate for loans made to first time borrowers after January 1, 1981, is 4 percent. Loans made before January 1, 1981, are at 3 percent interest and have a 9 month grace period before repayment begins. (See Appendix A for NDSL repayment schedule.) The loan may be deferred for up to three years by certain borrowers if they serve as volunteers for specific non-profit agencies, serve professional internships, become officers in the Public Health Service or if they become temporarily disabled. Aggregate loan limits are \$6000 for undergraduates and \$12,000 for graduate and undergraduate borrowing. The federal government will take legal action against NDSL defaulters. (ACT application.)

NSL:
Nursing Student Loans are available to undergraduate or graduate students enrolled in the College of Nursing. The student may not receive both the NSL and the NDSL simultaneously. (ACT or Basic (Pell) Grant application and Nursing Supplement)

EMPLOYMENT:

CWS:
College Work Study employment is available in various on-campus departments as well as in some off-campus non-profit organizations. The student may work up to 20 hours per week when school is in session and up to 40 hours per week during school vacation periods. Job placement is based upon the student's interest, skills and qualifications. The decision as to number of hours worked is mutually agreed upon by the employer and student. (ACT application)

Note: Students requesting Transfer Financial Aid Transcripts to be completed by the ASU Financial Aid Office must pay a \$1.00 processing fee. This policy will be effective March 1, 1981. Forms may be picked up and fees may be paid at the Financial Aids Office, Matthews Center Lobby.

to hydrogen fuel

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er L.A. and looking smog said. "When potential of see the U.S.

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universe, it is rarely found as an independent element on Earth. It must be separated from water, coal or some other compound containing hydrogen atoms, Sater said.

The energy required to force this separation equals the energy obtained from burning the hydrogen, he said.

"It becomes costly in terms of energy and money to isolate hydrogen from its source," Sater added. "I don't think it will ever be a practical fuel for automobile engines."

But Braun said Sater's assessment is unnecessarily pessimistic.

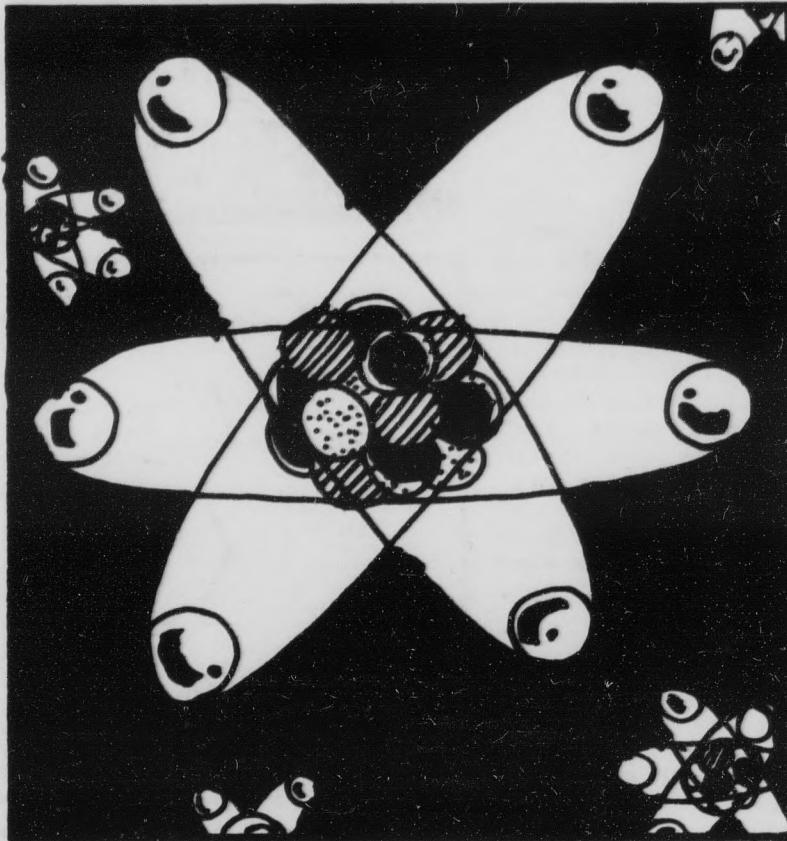
He said advances in technology have made solar collectors cheaper to manufacture, enabling researchers to use solar energy to make cost-effective hydrogen. The skyrocketing cost of oil also has made hydrogen look promising, Braun said.

"The Germans were using hydrogen to power experimental vehicles during the Second World War when the Allies blockaded oil supplies to Germany," he added.

"The only real obstacle to the use of hydrogen has been one of economics. When oil was selling for \$3 a barrel you could not make cost-effective hydrogen, but at the current price of oil hydrogen has become attractive," he said.

Braun said scientists from the Los Alamos

continued page 10



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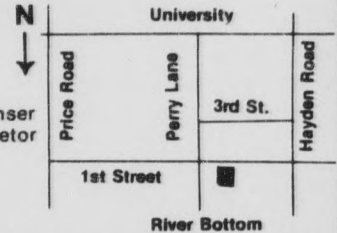
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Valley home to show hydrogen energy use

By Michael Cast

The Hydrogen Organization, along with several Phoenix-area engineering and research firms, plans to convert a Paradise Valley home to run entirely on hydrogen energy.

Harry Braun, the organization director, said the Hydrogen Homestead Project, which will represent approximately a \$4 million investment on the part of the companies involved, is designed to be a "media showplace."

"We will set this up as a communication to the lay public of what can be done with hydrogen," Braun said. "It will be a learning tool."

The hydrogen used to power the home will be separated from water by an electrolyzer run on electricity generated in part by a bank of solar collectors and a wind turbine, he said.

The house, which was donated by Estes Homes, will have a kitchen equipped with a hydrogen-fueled range, Braun said. A car designed to operate on both hydrogen and gasoline and a hydrogen-powered helicopter also will be added to the homestead project as

a means of transportation.

The organization is enlisting the aid of Lockheed, Honeywell, Motorola and several other corporations in setting up the project, he said.

Braun said researchers are coming up with a variety of methods for storing hydrogen, which must be kept at an extremely cold temperature to remain in a liquid form.

One of the components of the project is a metal hydride tank. A hydride is an alloy, such as nickel-magnesium, that can store hydrogen atoms. Hydrogen is released when the hydride is heated, he said.

Some of the hydrogen produced by electrolysis will be stored in a hydride tank to generate electricity on cloudy, windless days, he added.

"Hydrogen is a good way to store electrical energy," Braun explained. "It's a better method than using batteries."

Electrical energy can be regained by burning hydrogen to power a turbine generator or by combining hydrogen with oxygen in a fuel cell, he said.

"The electrochemical process of a fuel cell is essentially the reverse of electrolysis," Braun said. "Hydrogen and oxygen recombine to make water and electricity. NASA used the same kind of fuel cell to power its spacecraft and get water on the Apollo moon missions."

Braun said he hopes to see work begin on the house in June. Meanwhile, he is seeking firmer commitments from prospective participants.

"The technology to get the bugs out of hydrogen use is here," he said. "Our coal supply, which is estimated to last 500 years, will only last about 50 years if we use coal to supply the brunt of our energy needs, and nuclear power is not really feasible because of public opposition. Hydrogen is a better solution."

More about

Hydrogen

continued from page 9

Scientific Laboratory and other research groups are working on plans to set up an extensive network of solar collectors in the Sonoran desert of southern Arizona.

Energy obtained by the desert solar collectors could be used to make enough hydrogen to supply the nation's fuel needs, he said.

"We can produce enough hydrogen to run the entire United States before the turn of the century just in the Sonoran desert," Braun said. "With the advances in solar technology and the resulting decrease in costs of solar hardware, hydrogen could be produced in the Sonoran Desert Project for under half the current price of gasoline."

Although advances are being made in hydrogen technology, there are obstacles to overcome.

Dr. Tom Thomson, an ASU chemistry professor, pointed out some of the problems in using hydrogen as a fuel.

"It's difficult to contain a usable amount of hydrogen in an automobile for instance, because it's such a light gas at normal temperature and pressure," Thomson said.

"Storing it as a liquid is a problem because its boiling point is 253 degrees below zero (Celsius). Under high pressure it can be kept at a higher temperature, but even at 13 atmospheres its boiling point is about 240 degrees below zero."

Thomson said safety is also a problem with hydrogen because it is "violently explosive."

"As long as a positive pressure is kept in the tank there is no leakage," he said. "But if a car gets into an accident and the tank is ruptured, there could be a real safety hazard."

But Braun said hydrogen has an unearned reputation as a hazardous substance and is actually safer than gasoline.

"Hydrogen is so light, if you get into an accident it will rapidly disperse," he said. "Gasoline vapor, on the other hand, is heavy enough to gather in explosive pools."

"The Hindenburg (zeppelin) explosion has convinced a lot of people that hydrogen is too hazardous to use, but the Hindenburg was using hydrogen as a lifting agent and not a fuel."

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Disabled faculty allowed hearing

By Julie Mann

An ASU faculty member who has been disabled and unable to work for six months or more now has the right to a hearing for reinstatement, according to a revision of ASU's Faculty Handbook.

Dr. Leonard Gordon, a member of the Senate Personnel Committee, said the proposed policy extends the length of disability leave from six to 18 months with compensation and guarantees the right of the faculty member to a hearing by the Academic Freedom and Tenure Committee.

"The period is longer for the University to try to terminate the faculty member," Gordon said. "Now they also have the right to a

hearing to be reinstated if they're capable of going back."

The committee heard testimonies Monday from ASU faculty concerned with the recommended changes in the faculty handbook and faculty constitution made by the committee.

Gordon said the Arizona Board of Regents mandated each state university to prepare a local updated set of faculty procedures in conformation with their general Conditions of Faculty Service to be acted upon by the end of the academic year.

"The provisions have been proposed over the last couple years and are a compilation

of the Faculty Senate," he said.

Gordon said the recommended procedures have no change of principals and are more specific than existing policy. The purpose of the hearing was a "tightening up" of the language used in the document, he said.

Dr. Chris Smith, an ASU history professor, expressed opposition to the regent's policy of not allowing a non-tenured instructor a hearing prior to the decision of non-retention by the University.

"There's a strong legal precedence that goes to a person's basic human rights and constitutional rights," Smith said.

Willard Pedrick, former ASU College of Law dean, said a substantial number of good universities allow hearings for non-tenured faculty.

"Anyone who challenges termination on the basis of discrimination can get a hearing," Pedrick said. "Reasons will be given if you're willing to be patient and pay a certain price."

Pedrick said he would like to see the senate compile an alternate policy telling the regents ASU is "still not happy with their policy of non-disclosure" of reasons for termination.

collage

The **Women's Studies Student Association** will meet at 3 p.m. today in the Women's Studies Resource Center, Social Science Building, room 103, to discuss the networking project.

The **NAAC**, an affiliate to the Scottsdale Chapter of the NAA, will meet at 4:30 p.m. today in the MU Pima Room.

Campus Crusade for Christ will meet from 7 p.m. to 9 p.m. today in the Engineering Center, G wing, room 150 for skits and songs. Bob Horner will speak.

The **Amateur Radio Society** will meet at 1:40 p.m. March 4 in the MU South Pinal Room for a slide presentation.

Women's Studies will meet at 2:30 p.m. March 4 in the Social Science Building, room 105. "Eleanor Roosevelt and the Network of Women Reformers in the New Deal," by William Chafe, will be presented.

Alpha Mu Gamma will meet at 3 p.m. March 4 in the Language and Literature Building, room 46 to discuss certificates for last fall and foreign language week plans.

The **Pre-Law Club** will meet at 3:15 p.m. in Armstrong Hall, room 155 to discuss upcoming events. There will be a guest speaker.

Feminists United for Action will meet at 4 p.m. March 4 in the MU Graham Room.

Sigma Delta Chi, the society of professional journalists, will meet at 7 p.m. March 4 in the Nursing Building, room 101. Jerry Seper, an investigative reporter for **The Arizona Republic**, will speak.

The **Hydrogen Organization** will meet at 7 p.m. March 4 in the MU Apache Room.

All Saints Catholic Newman Center will celebrate Ash Wednesday Masses at 11:45 a.m., 4:45 p.m. and 7:30 p.m. March 4. Ashes will be distributed during the Masses.

The **Business Office** will disburse the second installment of financial aid monies from 8:30 a.m. to 4:30 p.m. March 4, 5 and 6 at the MU Cashier's Office. All checks not claimed by 4:30 p.m. March 6 will be available at the Business Office Cashiering Facility beginning March 9.

The **Rotaract Club** will meet at 6 p.m. March 5 at Willy and Guillermo's in Tempe.

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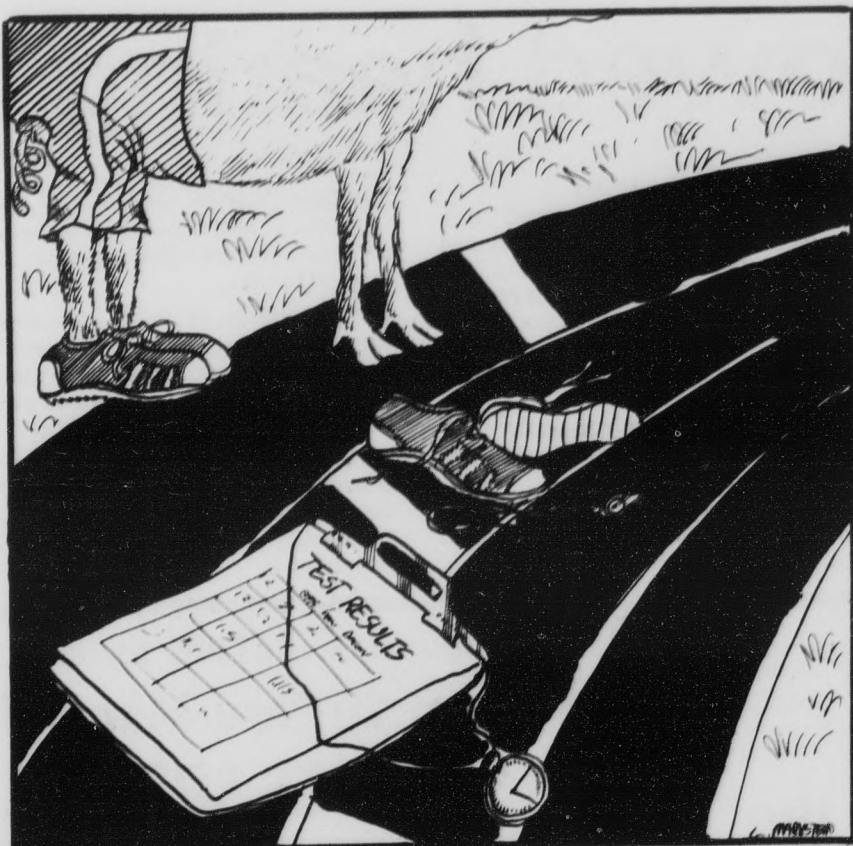
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Exercise decreases fat levels in jogging swine experiments

By Richard Burr

Exercise, not a low-fat diet, is the key to reducing human cholesterol and fat levels, according to an ASU researcher who has studied the effects of diet and jogging on domestic pigs.

Ross Consaul, a graduate in food quality assurance, said he experimented with pigs because their cardiovascular and digestive systems are similar to humans.

"It's hard to get 60 people to do an experiment like this, where the conditions could be strictly controlled. The purpose was to study a highly controllable model," Consaul said.

Consaul said he is researching what reduces fat and cholesterol because lower levels of these substances in humans reduces the likelihood of heart disease.

Consaul and George Seperich, assistant professor of agriculture, are currently analyzing the data from the six-month pig experiment conducted at the ASU research farm at Elliot and Price roads, which ended August 1980.

The final results of the pig study will be reported to the American College of Sports Medicine, May 29, in Miami Beach, Fla.

Preliminary results indicate:

— Pigs who jogged 1.5 miles daily and were on an unsaturated fat diet had a drastically lower cholesterol level than the pigs on the unsaturated diet alone.

— Pigs on a highly saturated fat diet had higher cholesterol levels than pigs on an unsaturated diet, but not significantly higher

to increase the chances of heart attack.

— Mild exercise increased the density of lipoproteins, proteins that carry fat in the bloodstream.

Consaul said human population studies associate higher levels of lipoproteins with decreasing heart attacks. However, the increase of lipoproteins in the pigs resulting from mild exercise was not significant enough to affect heart disease risk.

He added this finding proves vigorous exercise such as daily jogging is required to increase lipoproteins enough to decrease the risk of heart attack.

Steve Grothaus, a graduate in physiology studying the physiological data from the experiment, said the daily-exercised pigs burned more energy, ate less, and gained weight at a slower rate than the non-exercised pigs.

Three groups of pigs were used in the experiment. The first ate a lot of fatty foods, did not exercise, and were called the "beer and pretzel" pigs.

The second group named the "jocks" jogged a mile-and-a-half daily and ate more proteins than fats. Their weight increased more slowly than the "beer and pretzel" pigs.

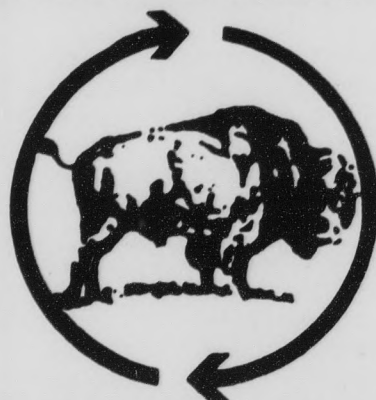
The "born again" swine, the third group, were on the beer and pretzel plan until halfway through the experiment, when they adopted "jocks" strategy. They lost considerable weight after this change.

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sports

Devils end home year with a bang

By Kevin Widlic

For the ASU basketball team and its fans, Saturday night was an evening to remember.

For their opponents, the California Golden Bears, it was a case of the "young man's blues."

The Sun Devils hammered the fuzzy Berkeley-ites (one senior, one junior, two sophomores, one freshman in starting lineup), 81-68, before a final home game crowd of 10,487.

The ASU cagers improved their record to a stunning 22-3 (14-2 in PAC) while sending Cal to mediocrity at 13-13 (5-12 PAC). But it wasn't until the second half that Coach Ned Wulk's squad put away the Bears.

After an emotional pregame ceremony honoring ASU's five senior players, one in which the student section joined in by storming the court, the Sun Devils pulled a Jekyll-and-Hyde switch from Thursday night's victory over Stanford. Instead of jumping off to a big lead (24-6 last Thursday), the Devils found themselves down 22-12 — and with gargantuan center Alton Lister watching from the bench with three fouls.

"We slacked off some at the start," Wulk said,

"maybe we were a little overcome by it all — overemotional."

However, from here on out, the Sun Devils — with an incredible surge — showed why they're among the nation's best.

"I've never seen a team react on defense, like we did, after being behind," Wulk said. "I myself became much more competitive."

"We did two things which really made me happy. One, we played great pressure defense, and two, we were very, very patient."

With guard Byron Scott taking the reins, ASU moved out to a six point halftime lead, 36-30. Scott's long-range gunning and sticky defense accounted for 14 points and three steals in the first 20 minutes.

But it wasn't just Scott who did in Cal.

It was Cal.

"In the last eight minutes of the first half we made 13 turnovers," Cal Coach Dick Kuchen said, "we just created problems — for ourselves."

Kuchen also said the Devils minus Lister equal the Devils with the 7-footer in the lineup.

"It's a mistake that people claim they're weaker

without Lister," he said. "With Sam Williams in the middle, they don't lose anything at all."

However, "The Slam" was on the bench also — with an injured knee damaging his Tempe curtain call.

"Being our last home game and all, it hurt not being able to play," Williams said. "My family was here, and I wanted to show them and the people here what I could do."

The second half saw the Sun Devils rip off chunks of unanswered points in building up a lead that peaked at 21 points.

Again it was Scott joining the resurrected Lister in leading ASU over Cal's kiddie corps.

The sophomore Scott finished with 28 points, eight assists, seven rebounds and five steals.

Lister, dueling with Pac-10 rebounding leader Mark McNamara, tossed in 17 points. Cal's "Big Mac" attacked with a game-high 18 boards but wasn't really a factor on offense despite scoring 16 points.

"He always puts the ball down, and we stole it a few times (four turnovers)," Wulk said. "But we just

continued page 15



Staff photo by Roger Feldman

ASU guard Byron Scott "D's" up on Cal's Butch Hays in the Devils' 81-68 thrashing of the Bears. Scott tallied 28 points, eight assists and five steals to pace the Devils.

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Severn adjusts to heavy role

By Tony Alba

Dan Severn's career, which has been one of the most successful careers in recent ASU sports history, will soon come to an end when the 1981 wrestling season concludes in two weeks at the national tournament in Princeton, N.J.

Severn, a four-year letterman at ASU, has compiled a career record of 119-9 going into the finals of the Pac-10 championship tournament.

He was scheduled to meet Dan Cook of the University of Oregon in the heavyweight division for the Pac-10 title last night. Severn, who took the 190-pound PAC crown last year, also won the Western Athletic Conference title in that weight class his sophomore year.

But Severn has had to make several adjustments this year. This is the first year that he has wrestled in the heavyweight division and he admits that he has had a few problems making the transition.

"In previous years," Severn said, "I had to drop from 230 pounds to 190 pounds to compete in that weight class. It got to be very hard to do last year. This year, I came in weighing 240 pounds and losing 50 pounds would have been too much."

"So now when I step out

onto the mat as a heavyweight, I give away about 50 pounds to most of my opponents. I weigh 225 and my average opponent weighs about 275. The largest person I've wrestled this year weighed 380 pounds and I gave away 155 pounds in that match."

Severn said he must be a little careful when he goes against a bigger man, but that being smaller than most of his opponents also has its advantages.

"My leg attacks are somewhat limited," he said. "I'm afraid that I'll pull somebody's legs out from under them and have them land on top of me and crush me. I've worked extra hard with the weights trying to build my strength. My strength and my quickness are two of my biggest assets."

Although Severn is smaller than most of his opponents, he is optimistic about his chances in the Pac-10 and national championships.

"I'm the number one seed going into the Pac-10 championships and I should win the title," Severn said. "Dan Cook will be tough to beat, though. I'm currently ranked number three in the nation, so I'll just have to give that my best shot."

Not only is Severn op-

timistic about his chances, he said he feels that the team should do quite well in both meets.

"Oregon was ranked number one in the PAC and we beat them," he said. "But in the tournament, it will be dog eat dog. With an outstanding effort, we should win it though."

"We're ranked number seven in the nation right now and the national tournament will be competitive. The Iowa and Oklahoma schools are always tough. I hate to say we won't win it, but realistically, I hope we can finish in the top five."

Severn, 22, attended Hill McCloy High School in Montrose, Mich., where he was a four-year letterman in football and track as well as in wrestling. Severn received a number of scholarship offers to play football in college, but he decided to stick to wrestling.

"In football, you're out there with 10 other guys whereas in wrestling you're all alone and relying on yourself," he said. "You're competing one on one and you take all the glory if you win and you know you're responsible if you lose."

Although Severn is successful now, it has not

always been that way.

"I started wrestling in grade school only because there were no heavyweights on the team," he said. "Some of my friends talked me into trying out because they were in a bind. I did and I got wiped out but I liked it."

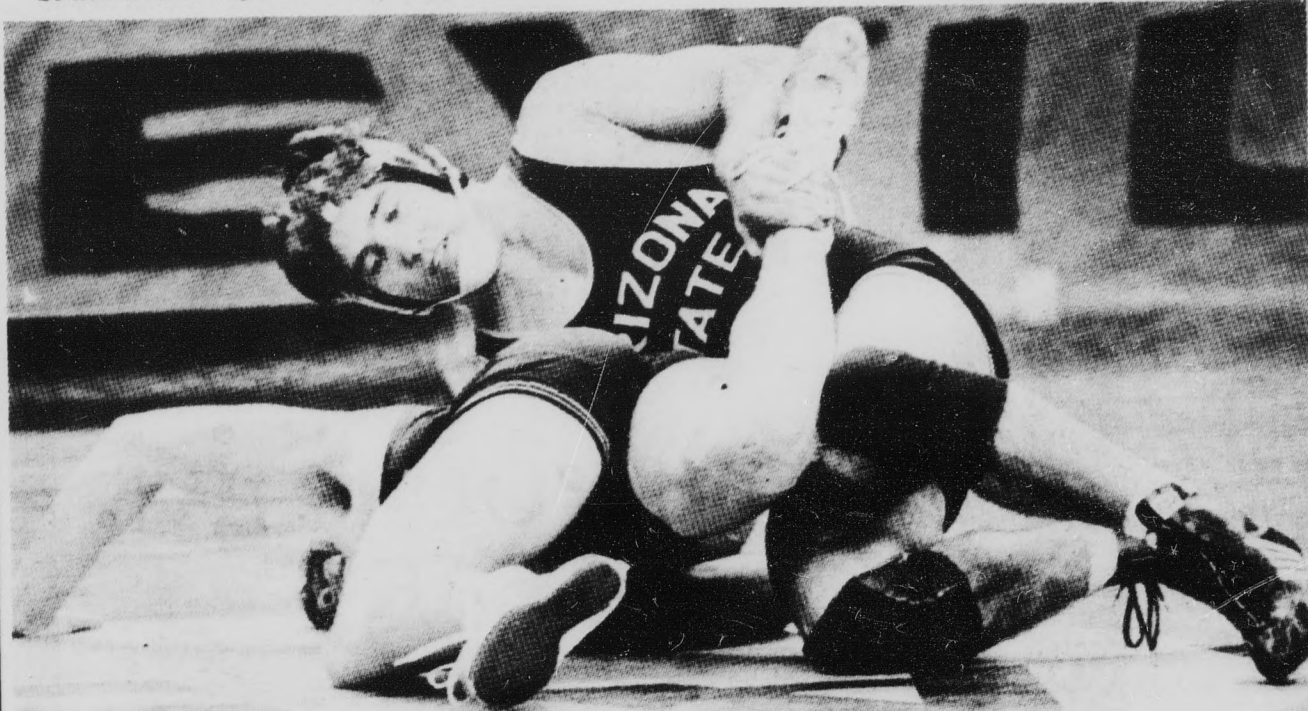
"In high school, even though I didn't weigh enough, I wrestled in the heavyweight division and I got thrashed. My sophomore year, I finally got to wrestle in my own weight class. I wrestled some of the best in those two years and gained a lot of experience."

Severn's biggest thrill of his life came between his sophomore and junior years when he won the Junior World International Competition in Las Vegas, Nev.

"I wrestled some of the best in the world," he said. "It was a tremendous experience. Winning that tournament was a thrill of a lifetime for me."

Severn said he feels the key to his success in his wrestling career has been his mental attitude.

"It's all in your mental mind," he added. "You can have all the strength and technique in the world, but if you don't believe in yourself, you'll never win."



ASU All-American Dan Severn shows the style which helped him earn the reputation as one of the best wrestlers in the

United States. Severn and his teammates are currently involved in the Pac-10 Championships.

Softball pitcher perfect in shutout of Glendale

Lucy Casarez has been on fire for the ASU women's softball team.

Casarez hurled a perfect game Friday, as the Devils blanked Glendale Community College, 5-0.

Casarez, who was 20-7 last season with a 0.59 earned run average, is 3-0 with a perfect (zero) ERA thus far this year, recording 41 strikeouts in 21 innings of duty.

The junior from Chula Vista, Calif., has scattered only five hits so far this year

without allowing a run or a base on balls.

Casarez, along with Sue Bristow, also leads the team in hitting with a .400 average.

Women's gymnastics

ASU's undefeated women's gymnastics team brings its regular season to a close this weekend with dual meets at Long Beach State on Friday and Cal-State Fullerton on Saturday.

The Devils will then travel March 13-14 to Tucson for the WCAA championships.



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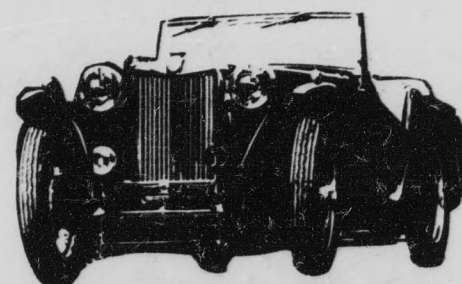
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Women's aquatics eye AIAWs

The ASU women's aquatics team should be psyched going into the March 18-21 Association for Intercollegiate Athletics for Women national championships at Columbia, S.C.

Winning four of the final eight events, the Sun Devils captured the second annual Western Collegiate Athletic Association swimming and diving championships, beating defending champion USC Sunday at East Los Angeles.

The Sun Devils finished with a three-day total of 992 points against USC's 928. UCLA placed third in the event, UA was fourth, San Diego State ended up fifth and Cal-State Long Beach rounded out the top six.

Jane Boyland's performance in the "mile" (1650-yard freestyle) was ASU's best effort of the competition, setting a new WCAA and school record with a time of 16:44.12.

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More about ASU

continued from page 13

fronted him and helped out on defense.

"He sure is tough though, especially when he knocks down a guy as big as Lister."

Pacing the Bears in scoring was sophomore forward Michael Pitts who dropped in 20 points in only 25 minutes of action.

But the evening's climax came when seniors Bruce Thomas and — yes — Ron Warring, entered the Sun Devil lineup with two minutes remaining in the tilt.

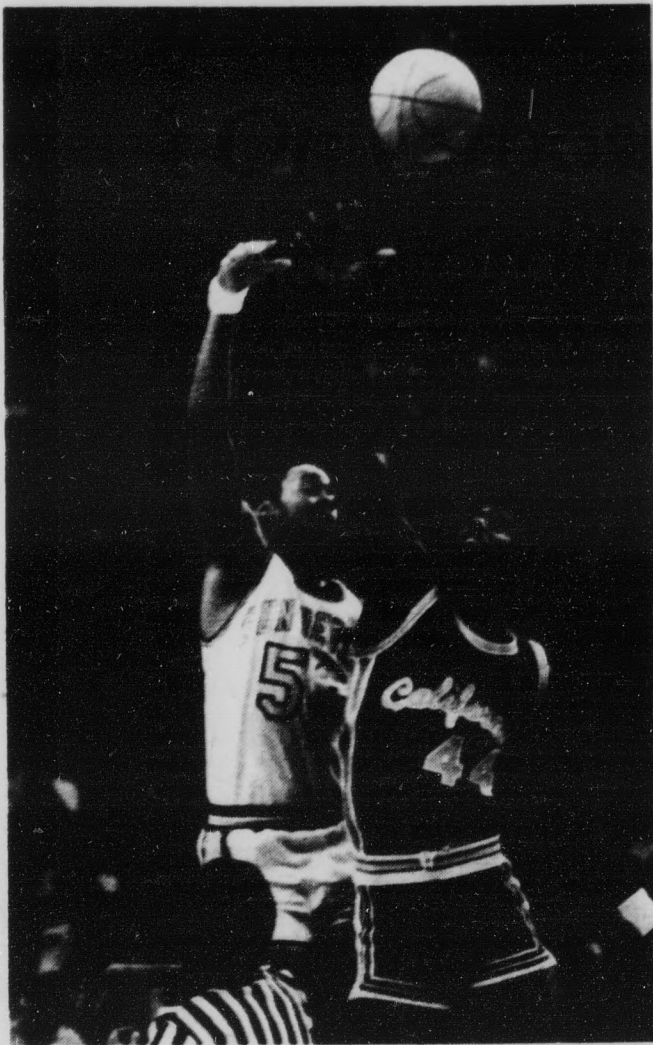
Warring, who had not scored a point in his two years as Sun Devil cannon fodder, promptly fired up a rope and a prayer. If the "big guy" upstairs didn't hear Warring's hymn, surely referee Booker Turner did. Though the shot was rejected, Turner signaled goaltending.

Two points. Bedlam. Thomas also let go with a bomb, hitting nothing but cord. Pandemonium.

Isn't that the way all the seniors should go out — with style? Ask Johnny Nash.

Nash who had matching 10s in scoring and assists left early with a tight muscle in his left shoulder. Nothing that a good rubdown couldn't cure. So on the way to the training room Nash was congratulated by two young admirers who realized this was the last time they'd ever see the Captain at the University Activity Center.

They laid their best slaps on Nash's left shoulder.



Center Alton Lister (53) fights California's Michael Pitts for a loose ball in the Sun Devils' rout of the Bears on Saturday.

Staff photo by Roger Feldman

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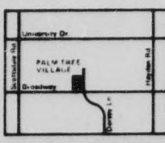
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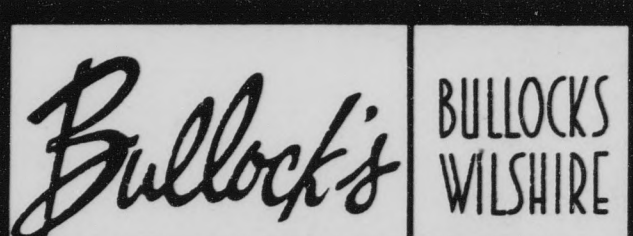
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ASU men's swim team vies for Pac-10 throne

By Pete Prisco

When one speaks of collegiate swimming there is no doubt about it — the Pac-10 Conference is the top throne in America.

And Thursday, Friday and Saturday the Pac-10 championships in Los Angeles will decide which team will play king to that throne.

"The Pac-10 Conference is definitely the most dominant swimming conference in the country," ASU men's swimming Coach Ron Johnson said. "Of the 10 schools, six (UCLA, ASU, UA, California, Stanford and USC) could finish in the top ten in America."

While Johnson said there are six schools that could win the conference title, he said he feels the two to beat will be UCLA and California.

"There is no doubt about it UCLA and California are the two strongest teams in the meet," Johnson said. "Nobody has come within 20 points of the Bruins in any dual meet. And Cal is right behind them."

"The Pac-10 meet could end up being a battle for the national championship."

ASU has finished fourth (1979) and third (1980) in two previous appearances at the Pac-10 aquatics meet but Johnson said he feels ASU could possibly move up the ladder this year.

"To win the meet, we would have to have one of our best meets ever," he said. "In fact we would probably have to have a one of those dream meets."

However, Johnson said he feels his squad has ripened considerably in recent weeks.

"We are ready physically and mentally," Johnson said. "The guys have really tapered in recent weeks."

But the Sun Devils are a very inexperienced team and Johnson said this will most likely play an integral part in how the Sun Devils fare in Los Angeles.

"We have so many freshmen and nobody knows how they are going to react," he said. "They could get up

for the meet and stun some people."

Key swimmers in ASU's quest for the title, according to Johnson will include: Andy Astbury and Rob Baylis in the distance events; Rob Wallenius and Cam Reid in the Individual Medley; Brad Herring, Chris Waters and Bill Longton in the butterfly; and Mike Orn in several events.

Johnson said the three butterflyers, Herring, Waters and Reid, really make ASU a threat in those events.

"Those three make the

butterfly events one of our strongest areas," Johnson said. "They are three very fine athletes."

Another swimmer who Johnson said should make waves (no pun intended) at the PAC meet will be senior captain Trent Lyght.

Lyght and Graham Welbourn are the only two Sun Devils who have qualified for the NCAA meet to be held March 26-28 at Austin, Texas.

"Trent has made a great deal of progress in recent months," Johnson said. "He

first made a big jump in his sprint times at last year's PAC meet and has continued to improve them."

"He is new to sprinting so it took him a little time to come on, but he has really improved since he picked it up."

When the Sun Devils do take to the water in the East Los Angeles Pool, they will be missing a very noticeable feature — hair.

"Our swimmers shave the hair off their legs, arms and

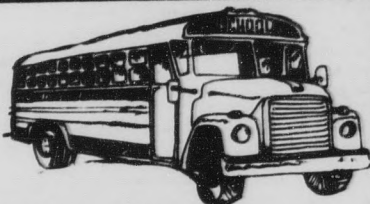
chest," Johnson said. "This helps them move better hydraulically in the water."

"While the tactic might sound obscure, Johnson said it definitely has its ramifications."

"It could help as much as cutting one full second off each 100 yards timed," Johnson said.

ASU finished their dual meet season with a 6-5 record, which was the eighth consecutive winning season for the Sun Devils.

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