science

'Soft' aerobics provide safer way to exercise

By MAUREEN SEABERG Collegian Science Writer

The high number of injuries caused by the results. strenous workout of aerobics has left re- Time magazine reported in June that an times her or his weight. searchers calling for a new "softer" tech- estimated 24 million Americans, 90% of them

instructor said soft or low impact aerobics is tive results. However, traditional high-im- less intense workouts. It also issued gaining increasing popularity among aerobic pact aerobics can be dangerous to both guidelines for the average exerciser:

to help reduce the risk of injury. developed by Dr. Kenneth Cooper for the U.S. teachers, a startling 76 percent had been every other day. Air Force. It is also known as stamina train- injured. ing, and has been called the most vital form Most aerobic injuries are muscle strains 30 minutes. of adult exercise. Aerobics specifically helps and aches — predominantly in the shins and • No more than four hops should be perthe cardiovascular and respiratory systems. feet — which will heal with rest, but increas- formed in sequence on the same foot.

enthusiasts as a safer alternative in exercise students and instructors. *Time* reported that a recent survey of 1200 students showed that recommended maximum. Aerobics is a conditioning plan that was 43% had suffered injuries, and that among 58 • Classes should be no more frequent than

The exercise must be performed at least ing numbers of back, shin, knee, calf, foot The new aerobics technique, also called not only learn both soft and hard aerobics, aerobics is the gateway to fitness for all other three times a week for 20 minutes each and ankle injuries have drawn attention to non-impact, or controlled aerobics, requires but also more about the disciplines of aerobic sports. You stretch, strengthen and train with workout to be effective and produce a train- safety of studio floors, proper aerobics shoes, that one foot be kept on the floor at all times, exercise in University aerobics courses. The aerobics, "she said.

exerciser lands with a force equal to three

Concern about the risk of exercise-related women, are dedicated to regular aerobic injuries has caused the American College of jazz to create routines so safe that they can Sharon Warwick, a University aerobics workouts in classes. Most expect only posi- Obstetricians and Gynecologists to call for • Heart rate should not exceed 75% of the called "hydroaerobics."

• The aerobics portion should be limited to

ing effect, Warwick said, adding that the positions during exercise and competency of Warwick said, adding that increased upper courses combine workouts with informative heart rates of participants should reach ap- in structors. Even the nature of the exercise body movement, combined with other tech- lectures about safety factors, the anatomy of proximately 140 beats per minute for the best itself is under scrutiny, since an aerobics niques can bring heart rates up to target the body and how exercise effects one's rates just as in conventional aerobics. "The courses are more popular than ever Instructors are also incorporating other and more sections are being added every disciplines such as yoga, Tai Chi, ballet and

> exercising in a swimming pool —a method Debbie Southard of State College Nautilus and Aerobics Plus said her club will be featuring a low impact class this month. "We

hope that people who work out more than three to four times a week will be showing up for the low-impact class," Southard said. University students have the opportunity to



Penny Bird (senior administration of justice) stretches during her soft aerobics class, which focuses on more upper body novement to decrease stress on the feet, legs and back.

Vitamin O.D. as great a threat as deficiency

By CHRISTINE KILGORE Collegian Science Writer

is good, then a lot is better" may be Large doses of the fat-soluble vita- overdose. Fortunately, they are the students is dollars — so they choose 21.2 percent in 1983, said Elaine Jurs, cially in the media, Charles said. following a dangerous misconception min A — found in liver, dairy prod- least toxic," he said. when it comes to vitamins, according ucts, broccoli, spinach and yellow to a University nutrition professor. vegetables - can cause overdose taken by people who falsely believe it dose, which can cause effects ranging severe migrane headaches, hair loss, cold, can lead to toxicity of iron by from mild skin irritations to more and calcium loss from the bones. serious disorders requiring hospitali- "A vitamin A overdose will mobi- people, he said. An overdose of iron zation, is something many students lize calcium out the bones and cause then can cause liver damage.

mentary pills, he added.

also lead to overdose, he said. "Overdose is very unlikely when dose)."

supplements.

pose the greatest risk because they likely to be toxic. tend to accumulate in the body, Smith

are not aware of. Although vitamin hairline fractures in the bone," Smith "There is no evidence that vitamin overdose is not as common as vita- said, adding that vitamin A is often C prevents colds," Smith said. "Some min deficiency, it can cause medical used by dermatologists to treat acne. studies suggest that vitamin C can problems when students take an ex- "I know of one woman who killed alleviate symptoms and lessen the cessive amount of vitamin supple- bone cells and still can't walk." Occasionally, vitamin A overdose

cent of the recommeded daily allow- leads to symptoms resembling a vegetables, and cereals, can cause ances — nutrition requirements set brain tumor, Smith said. "There have the loss of sensory-nervous control if by the Food and Nutrition Board of been instances where people have taken in excessive amounts, he said. the National Research Council — can actually had surgery before physicians realized (it was a vitamin over- to prevent pre-menstral pain," Smith

the liver, muscle and fat tissue - can lating in the body tissues, are less "Vitamins C and E, water-soluble tor for the Penn State Nutrition Cen-

An overdose of vitamin C, often John E. Smith said vitamin over- symptoms such as scaly orange skin, can prevent or eliminate the common increasing its absorption in some

severity of colds, however."

Vitamin B-6, another water-soluble Vitamins containing over 100 per- can cause pressure on the brain that vitamin found in liver, leafy green

"Some women take (vitamin B-6) said. "But they're often given 1,000

he said.

"Much of the general population tired - I don't know what's wrong', he said. "Many physicians will then prescribe vitamins knowing it may be helpful. The use of vitamins in general resembles what physicians used to do with sugar pills."

"People think if a little bit is good then a lot more is better," he said. "A patient can come back to the doctor saying 'I feel better,' regardless of the cause. They often say 'I can really feel it working' . . . but it shouldn't work that way.'

Smith estimates that about a quarter of the student population takes vitamin supplement pills. ."The bulk will take a one-a-day multi-vitamin capsule and a small percentage will take specific vitamins," he said. "Students especially look for that

competitive edge." "When you're over 65, you usually need vitamins because your caloric intake can be cut in half as your body and muscle mass becomes smaller,' Smith said. "But for younger people,

I neither encourage or discourage taking supplements. If they are not taken in overdose, they may be help-Mary Adams (junior-nutritional

science) said she took vitamin supplements until she read about the dangers of overdose. "I took vitamins for a long time, partly because my family always had," she said. "Then I read articles on megdoses and decided not to." "I just gave a speech for a nutrition

class on vitamin overdose - people were surprised," Adams said.

Student health habits follow society's general trends fast food." She added that students the executive director of the Centre By ALEXANDER SOAST

choose what's right for them.

Collegian Science Writer

tant director of the Office of Health center.

Promotion and Education. in better health behavior remains to dents often skip breakfast on week- males chew or snuff the tobacco. be seen."

of an aerobic nature at least three students skip meals are a lack of time said. "The oral cancer and other oral times a week," he said. Excercises and as a means to control calories. problems (it causes) can be pretty such as swimming, bicycling, run- Elaine Young, a University assis- bad." ning and even brisk walking are good, tant professor of nursing, said al- Along with the use of smokeless he said, adding that the activity needs though students may not eat tobacco, the use of alcohol has risen to be steady and last for 20 to 25 properly, the number of students who among college students in recent minutes to strengthen the cardiovas- smoke has decreased. cular system.

four basic food groups," Charles said. rapidly," she said, adding that even more. The four food groups, charles said. though she did not have statistics on "By far, the drug of choice is alcodairy products, fruits and vegetables, the number of college students who hol," he said. "Alcohol is usually not meat, and breads and cereals. "The smoke, "Statisics show that people considered a drug. (People) average college student (eats) a lot of who aspire to higher education seem think what that means." fats and fast food," he added.

vitamins, are most often taken in ter, said, "The hardest thing with declined from 28.8 percent in 1976 to our is associated with cocaine, espe-

year, we got to be pretty good friends.

to smoke less."

Staying healthy:

Last year, I met Bob and his roommate Steve while plan out your grocery shopping a little, you can buy working out at a Nautilus club. We usually worked out things that you can prepare relatively fast.



Bob was the most gorgeous thing I'd ever seen and he had a great body! Steve, on the other hand, was fairly good looking but didn't make your head turn.

that made me wonder. First I noticed that except for Bob even had a real personality or was just a bulge of working out at least two hours every day, he was muscles. incredibly lazy. He never got up earlier than 11:45, After a while I began to realize that I was not the only which was just in time for him to make it to his 12:05 one who was unhappy with Bob: besides his beautiful Sure if he had been up studying till 4 a.m., I could

around the apartment watching TV or out at the bars. I admit, he is a blast to party with, but that made only a easier for some than others, but Iknow that it's limited impression on me and it soon wore off.

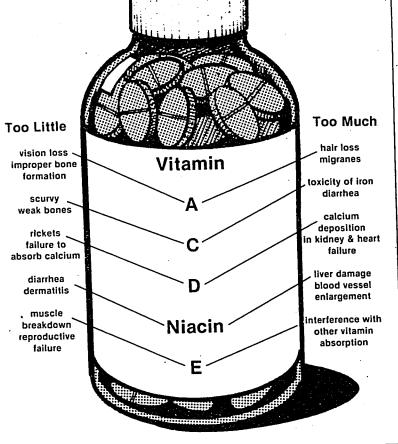
On the contrary, Steve was usually up by 6:30 a.m., giving himself enough time to go for a quick jog, take a shower, make a good breakfast, and get to his 8:00 class. And speaking of breakfast, their eating habits were as different as night and day.

It would make me queasy to watch Bob in action. Bob's breakfast/lunch consisted of a Pepsi and some Tastykakes from the Uni-Mart on the way to class. What a way to shock your system first thing in the "morning." He justified this by claiming that he needed all the

sugar and caffeine to stay awake in class. I usually met up with him after that class for lunch, and while I enjoyed the fresh veggies at the salad bar, Bob enjoyed the grease in his cheeseburger and french fries and got even more hyper from the sugar in his milkshake. I realize that men usually eat more than women, but this was ridiculous.

Bob rarely cooked anything much for dinner, he was too lazy. Free delivery is the best thing that ever The truly admirable, happy and healthy person has a happened in his life. If he did happen to be too broke to good balance on all aspects of health: physical, menorder out, he'd sometimes venture so far as to throw tal, emotional, spiritual, and social. some of those boil bags of turkey or beef in gravy on the As for me and Steve, well, he's coming to pick me up stove, or maybe even open a can of Spaghetti-O's.

Living away from the dorms myself, I understand the time it takes to cook a decent meal, but I also Kelly Clark is a junior majoring in biology and a realize that it certainly isn't impossible. As long as you science writer for the Collegian.



you eat standard recommended foods Like vitamin A overdose, an over- times the recommended value - it is almost impossible to overdose dose of vitamin D - another fat-solu- and like most other vitamins, people by eating a regular diet," he said. ble vitamin — can be rare but almost think that if it doesn't work, they "But we all want capabilities beyond continuous, he said. "An excessive should take double." what the human body can do. We all amount of vitamin D can cause calci- The effects of vitamins may often want to be superman or superwoman um to be deposited in the kidney. This be pyschological to patients whose ... so many of us take vitamin leads to renal trouble and then possi- physicians have prescribed vitamins, ble heart trouble." Fat-soluble vitamins — those that Water-soluble vitamins, which pass are stored in excessive amounts in through the body instead of accumu- will go to a physician and say 'I feel

The Daily Collegian Thursday, Nov. 6, 1986

semester. The response in a university situaeven be done barefoot. Other instructors are tion is good, especially if the instructor has softening the strain of aerobic workouts by made the students aware of all of the aspects of exercise, including injuries," Warwick

> "It is also very important that each class be comprised of the proper components ... the warm-up, the aerobics section, the stretch, tone and strengthen section, and the cool-down." she added.

> "Something that gets lost in fitness is that

also often do not have enough time to County Unit of the American Cancer Society. Currently a trend is devel-Student health habits are reflecting In general, 15 percent of the popula- oping away from smoking and toward trends within the rest of society by tion skips breakfast and eight percent the use of smokeless tobacco, she paying more attention to diet and skips lunch, said Jane Peacock, a said. However, she added, "College excercise, said the University's assis- graduate assistant at the nutrition students in the U.S. are not aware it is the hazard that it is."

The average breakfast skipper is The national average for smokeless Kevin Charles said "The aware- usually 18 to 24 years old, including tobacco use among college students is ness is greater (of the) need for college students. "(Students) may be 12 percent, she said, adding that she excercise and eating correctly," he inclined to skip breakfast or lunch," found it surprising that 22 percent said. "Whether this manifests itself and sometimes both, she added. Stu- more than one-fifth - of college days and lunch on weekends, she "Smokeless tobacco is a different "(Students) need to get excercise said, adding that the main reasons kind of health hazard all its own," she

years, Charles said. Alcohol use is "Student smoking is declining just measured according to the number of "People need to eat foods from the as is adult smoking — just not as students using it once a month or

Other drug use such as cocaine has Robin Bagby, an in-home coordina- Even the number of high school also been increasing while marijuana

It's more than just a three-hour workout

the same time every day, and over the course of the But Bob's bad habits didn't end with his stomach. Even though he usually slept till lunch, he didn't really get much sleep, because he usually was up till day break, and he often pulled all-nighters trying to finish the papers he had put off or cramming for exams in classes that he was chapters behind in.

Another thing that really made me worry about Bob's health was his fanaticism about exercise. He would seriously spend between two and three hours every day running and lifting weights, not even giving himself a single day of rest. At first I actually admired his devotion to exercise, but then I realized that it was out of hand. It's like taking vitamins; too much of a

good thing can be detrimental. When I asked Steve about Bob's other interests 1 found that he had none. He was addicted to exercise. I guess I assumed that since Steve was so involved in his academic career and other organizations, that Bob was too, especially since such activities look good on a After a while, I began to notice little habits of Bob's resume. I began to wonder, with his limited interests, if

physique, Bob was not happy with himself. He would often go through serious mood swings, but he denied understand. But no, he had spent the night just hanging that anything was wrong. I tried to tell him that being able to express your feelings freely is sometimes definitely not healthy to keep your emotions inside all

the time Another one of the peeves I had was with his social life. Given, Bob did his share of bar-hopping, but he never strayed from the group of two or three guys that he partied with. He never really made an effort to make friends with people in his classes, or anywhere else for that matter.

Being able to interact well with others in a variety of situations is an important quality that everyone needs to thrive in our society. Especially during this stage in our lives, a certain amount of socializing, "partying," or whatever you want to call it, is absolutely imperative to your well-being. Once again though, too much or too little can be detrimental. As you've probably guessed, shortly thereafter,

officially told Bob to "take a hike" but what I really wanted to tell him was that I abhorred his entire being. I had always hoped that Steve's good habits would rub off on Bob, but no such luck. As with every "relationship" that fails, I learned a valuable lesson.

in an hour .

Video-testing

Collegian Staff Writer

months of the proposed program.

If the program goes into effect, State College

Bureau of Police Services will share equipment

with county police departments, Williams said,

adding that police departments in Patton and

Ferguson townships were "supportive of the

G Williams.

concept.

By MIKE LENIO

Collegian Staff Writer

walks or face a fine.

the downtown sidewalks.

Taped evidence may help convict drunken drivers Pennsylvania Department of Transportation cut down processing time for the officer on the By JAMES A. STEWART spokeswoman Lisa McMullen said Centre County street," Williams said.

became a possible site for a "central processing" "It'll also give us the ability to play the tape A proposed new video-testing center for people center," with videotaping facilities for booking back in court and show them the condition we suspected of driving under the influence will save DUI arrests, after the department was contacted saw the (defendant) in," Williams added. "A Centre County police officers time and provide by Centre County District Attorney Ray Gricar picture's worth a thousand words." video evidence to aid the conviction of drunken in February. Though no money was available then, Gricar's PennDOT on a variety of factors, including drivers, said State College Police Chief Elwood

request was reconsidered when funds became population, high fatality rates and high DU State College Municipal Council gave Williams available from the federal government in Sep- arrest rates. and his staff permission Monday night to pursue ember. McMullen said. a federal grant covering purchases of video Gricar, who is working with Williams on the equipment and operation costs for the first six

proposal, said all Centre County municipalities The equipment and initial operating costs are will be encouraged to take advantage of the service. After the first six months, a fee, tentatively set make it." He added that the equipment has not

at \$100, will be charged to each guilty defendant, yet been chosen. Gricar said. "One of the biggest advantages is that it will Nov. 15, Williams said.

rowes streets on College Avenue and the past to include roller skates, but complaints increased dramation Allen Street. The amendment also ban on those vehicles will now be He added that bikes being walked problem, and that the residential

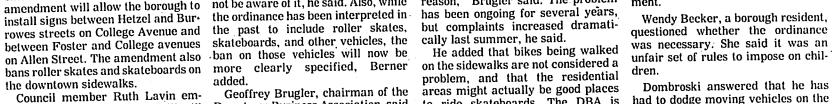
phasized that the ordinance will still Downtown Business Association, said to ride skateboards. The DBA is had to dodge moving vehicles on the affect only sidewalks in the downtown the DBA wrote a letter of complaint mostly concerned with removing this sidewalks himself.

Wendy Becker, a borough resident, was necessary. She said it was an

business district. Riding on resi- last month to the council after receiv- problem from the downtown area, he within 48 hours. He added that meter enforcement officers will also be able

questioned whether the ordinance

provided that the rider yields the customers, including several who had Council President John Dombroski Signs will soon be posted on College right of way to pedestrians, she said. been hit by bike-riders on the side-Avenue and Allen Street warning Council member R. Thomas Berner walks. He added that since many easier for police to issue citations for bicycle riders to stay off the side- said the amendment was not intended stores downtown open directly onto violations of the ordinance. The minito change the existing ordinance, the sidewalk, pedestrians emerging mum fine for a violation will be \$5. State College Municipal Council on which already forbade bicycle-riding from the stores have no warning if a increasing to \$10 if the fine is not paid existing ordinance which promotes it. The placing of sights with make the avoided coming downtown for that to write citations under the amendment.



Pennsylvania has 21 DUI taping centers, Mc

estimated at between \$10,000 and \$80,000, Wil-

liams said, "depending on how sophisticated we

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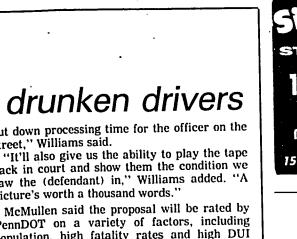
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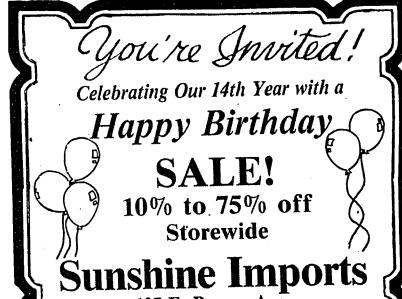
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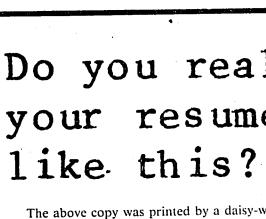








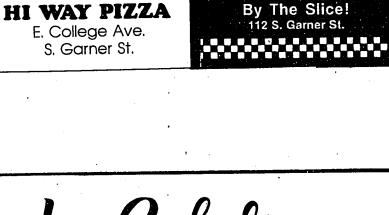




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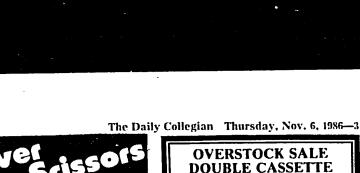
Sidewalk bicycle riders to face fine

between Foster and College avenues skateboards, and other vehicles, the cally last summer, he said.

Monday passed an amendment to an on downtown sidewalks, but to clarify vehicle is approaching. existing ordinance which prohibits it. The placing of signs will make the "I have a strong feeling that people amendment will allow the borough to not be aware of it, he said. Also, while reason," Brugler said. The problem install signs between Hetzel and Bur- the ordinance has been interpreted in has been ongoing for several years,

dential sidewalks will still be allowed, ing a number of complaints from said.

Mullen said.



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