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### Arbiter, June 5

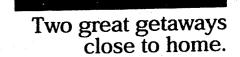
Students of Boise State University

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Idaho Shakespeare Festival gears up for new season.

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Page 4

**Boise State University** 

Wednesday June 5, 2002

www.arbiteronline.com Vol. 15 Issue 38 First Copy Free

# Models help doctors plan surger

The Arbiter

By Matt Neznanski The Arbiter

Them bones, them bones, them extruded

A collaboration among Boise State Kinesiology, Engineering and Radiology Departments is helping doctors plan compli-cated spine and joint surgery before they

building, mechanical engineering professors Steve Tennyson and Joe Guarino create precise models of the knees, hips, spines and other body parts about to be operated on.

Ron Pfeiffer, a Boise State kinesiology pro-

like pilots flying blind through clouds," he said. "They take pride in their skill."

Steve Tennyson

fessor who provides anatomical expertise, said the models allow surgeons to rehearse

"It helps the surgeons prepare, which can improve the outcome for the patient," he said. The process begins with data from computerized tomography (CT) and magnetic resonance imaging (MRI) scans of patients, which create individual cross-sectional pictures that

This data is then electronically transferred

uses these sections to create a virtual model. manipulated in the computer.

ing information for the interior and exterior of

losing any resolution when we're making the

ing plastic from a set of nozzles one layer at a

Tennyson said the plastic is soft when it is

plastic extruded from another nozzle, building from the ground up, if necessary.

out how to add support for these models," Tennyson said.

ultrasonic soapy bath after the model is com-

ever touch a scalpel. Using the rapid prototyping machine located on the fourth floor of the engineering

"We've been doing this on an experimental basis with Idaho orthopedics," said

"It's kind of a macho thing,

Boise State engineering professor

surgery before they actually begin.

look like slices of the body.

from Intermountain Medical Imaging.
According to Tennyson, MIMICS software

At this stage, the image can be viewed and This model is made into layered files for the rapid prototyping machine, each contain-

The machine actually has greater accuracy than the scan," Tennyson said. "So we're not

The machine creates the models by extrud-

first extruded, so the machine must also pro-plete. ide a support structure for any overhanging He said this support is made from a brittle

'It took the software a lot of time to figure

The plastic is then washed away in an

Tennyson said an experimental half-scale pelvis took the machine 50-60 hours to com-



Photo by Ted Harmon, The Arbiter.

Nathaniel Haro shows off a model spine built by a rapid prototyping machine.

The prototyper was originally purchased in 2000 with a \$308,000 two-year matching grant through the Economic Development Administration and the university to provide modeling capability for industrial engineers.

"25 to 30 percent of the machine usage is for industry," Tennyson said.

Prototyping is a regular part of most manufacturing. Instead of time-consuming methods involving clay, wood and metal, rapid prototyping can save time and cut costs.

"A problem is that the machinery is expen-Tennyson said.

He said only a handful of companies man-

ufacture the equipment worldwide, and do

not mass-produce it, keeping costs high. Mechanical engineering students use the machine to flesh out some of their own designs, and have become critical in the pro-

totyping process, Tennyson said.
"We hired some students, who have become experts. We rely on them now," he

While industry is slowly beginning to see the benefits of the prototyping technology, Tennyson said using the process in medi-

"None of the insurance companies offer coverage for this," Tennyson said.

There also seems to be some reluctance to modeling on the part of surgeons who pride no able to read two-d

sional scans prior to operating, he said. "It's kind of a macho thing, like pilots flying blind through clouds," he said. "They take

pride in their skill." However, Boise orthopedic surgeon Kevin Shea, who specializes in pediatric surgery and assists the group, said he has used the models to prepare for six patients since last year.

There are certain risks associated with spinal surgery. Having a model of the spine allows us to plan the surgery more completely and do it more safely," he said.

## Broncos get new blue turf

### University chooses latest technology

By J. Patrick Kelly ·The Arbiter

Bronco Stadium is getting a new blue rug. Actually, a state-of-the-art artificial turf system to be more exact.

Gene Bleymaier, Boise State athletic director, announced the field upgrade May 14, saying the project is slated to start June 26. The new turf will take six weeks to install at an estimated cost of \$650,000.

The university chose AstroPlay, the latest inno-vation in athletic turf tech-Southwest nology. Recreational Industries Inc. manufactures AstroPlay, They are the same company that invented AstroTurf in 1965. Southwest has done

business with Boise State the players from serious before when they installed blue AstroTurf playing fields in 1986 and 1994.

AstroPlay is said to feel more like real grass than AstroTurf and has better footrelease characteristics, which reportedly leads to less knee and turf-burn related injuries.

The new turf system has four layers: A 1-inch rubber pad that covers the criginal asphalt surface, two intermediate rubber-filled layers and a 2.5-inch grass-like top surface. Some of the other college programs that use AstroPlay didn't purchase the protective bottom pad, which comes at an additional cost, yet adds much needed

Bleymaier went the extra mile to buy the pad to protect

injuries. The new field will be more player-friendly because it will play like real grass," Jim Savoca, Southwest's vice president of stadium sales,

'And the new turf still looks like the old Boise State bluegrass.'

Head coach Dan Hawkins is optimistic about the new playing field and said his players are enthusiastic as

"Most of the kids don't like playing on AstroTurf, they would rather play on real grass because it's softer. They're pretty excited about the new turf because it's closer to the real thing, Hawkins said.

Besides the safety features, I'm also happy that we can keep the blue turf. NCAA regulations only allow green turf, but we are grandfathered in."

Hawking said the new surface also allows the Broncos incre and anoward options, incre practicing options, because how they don't need separate shoes for their grass practice fields and Astrofurf like they the before.

cine is still in the experimental stages.

#### By Kara Maskew and Matt Neznanski

The Arbiter

Boise State University is planning to break ground on a new residence hall between March and May of 2003—one of the biggest

projects ever planned in campus history. Larry Blake, executive director of facilities administration, said the new hall is second only to The Pavilion in largest projects undertak-

en by the university. "The Pavilion on campus probably the only project that cost more at the time it was constructed," Blake

The large number of suite or apartment-style units makes the construction costs increase, he said.

With 340 beds total, the residence hall will offer modern amenities for future

The goal of the new residence hall is to provide suite-type units that will appeal to sophomores and juniors who might otherwise seek housing off-campus," Blake said.

Greg Blaesing, executive director of auxiliary services said a study conducted by

the housing department and national statistics showed students wanting the suite-

style housing. According to Blaesing, students are also interested in apartments-two, starter three or four bedroom units with shared kitchen and living areas.

the plan Blake said includes 1-2 classrooms inside the hall, a computer lab for residents, a laundry room and lounges with kitchenettes on each level.

Limited open land on camous has made the location of the hall an issue.

"The original site was the area west of Driscoll Hall and the parking lot north of Morrison Hall. We are now considering adding the area generally between Driscoll, Morrison and Chaffee Halls and the new tennis center and Pavilion," Blake said.

By increasing the area of the site, he said the hope is to keep the height of the new student housing to three sto-

One of the selling points of the new residence hall will be its proximity to the Student Union, Student Recreation Center, library and other campus amenities, Blake

said.
"We're trying to develop a

Dorm construction planned for spring progression of student housing types on campus," Blake

> Many first year students are willing to live in a dormitory-type residence hall for

After their freshman year, he said, they often seek more independence and want to move into traditional apartments, with more space and private bathrooms.

"We hope to meet these needs with the new residence hall," he said.

Blaesing said the housing department's intent is to grow and develop housing options to add to the on-campus atmosphere.

He said 28 percent of stu-dent housing residents come back the following year. "Retention is a fundamen-

tal part of the new housing plan," he said. Rebecca Hancock, assistant director for resident life, said the new hall would greatly benefit Boise State's

**Fandscape** It will be a big addition to the campus by offering a more modern and pleasing accommodation, and will aid

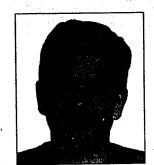
in concentrating on-campus life," she said. The project is expected to be completed July of 2004.

"The goal of the new residence hall is to provide suite-type units that will appeal to sophomores and juniors who might otherwise seek housing off-campus,

-Larry Blake executive director of facilities administration

## Viewpoints

## Patriotism is the cornerstone of Ame



Joseph Terry

I'd like to start my editorial columnist career writing about something called patri-

otism. In a lot of ways, this is something that has held this country together through some of the most desperate

times in history.
I strongly feel that it is one of the major factors that led us from a country that should have never lasted, to being the premier power in the world in less than 250

Now, I believe that every American has that fire of patriotism buried somewhere inside them. Some of us may be flag-carrying, nearly fanatical, while others may have it buried so deep that they don't even know

where it is. Nevertheless, it is

What does it mean to be patriotic? Does it mean you agree with the current regime? I don't think so, though it doesn't mean that you should undermine the president because you disagree with his policies. It means honoring the office, no matter who is sitting in it. It means believing in the greatness of this country.

Democracies aren't supposed to work. They are supposed to be weak and ineffective. Look at us. We took thousands of years of history and proved it wrong. This is

the oldest democracy alive, and we should be proud of it!

No, being patriotic doesn't mean we have to agree on everything. That's part of what makes this country so great. The presidential elec-tion of 2000 would have thrown almost any other country into civil war. What did we do? We let the Supreme Court make the decisions and began working on a new ballot system to avoid the problem again. Once again, we throw history out the window and prove ourselves above it.

Sure, we have racial tensions in America. However, we don't resort to ethnic cleansing like other countries do. And we are far more diverse than the places where ethnic cleansing occurs. So, shouldn't we be more prone to such violence? Once again, we take that idea and throw it out the window. While we have our problems, we aren't committing wholesale slaughter of differing

ethnic groups.
I'm sure someone is asking himself or herself, what is the point of this article? It's simple. I get tired of America-bashing. We didn't make it to the top because we are stupid or just lucky. We

worked hard and learned from history, instead of repeating it. Now sure, the U.S. isn't perfect, but find me a place that is. When was the last time you saw a raft full of desperate American refugees washing up on Cuba's shore, or any other foreign shores for that mat-

Columnists' views do not necessarily represent those of the Arbiter editorial board and staff. The Arbiter welcomes your opinions. Please direct all letters to editor@arbiteronline.com.

#### **Greetings from the ASBSU President**

On behalf of all of those who serve at ASBSU (Boise State's student government). I would like to extend a warm welcome to everyone. This year's group of students willing to serve in student government has to be one of the most dynamic, hard-working, energetic, yet humble groups I have ever been privileged to work with. Without hesitation, I invite all of you to come and visit our offices (located in the Student Union Building). We are a welcoming group and

invite all of you to come and visit our offices (located in the Student Union Building). We are a welcoming group and this is reflected in our open-doors, open-curtains, open-ears and open-minds approach to leadership.

Boise State's student government is currently in the process of implementing certain measures aimed at accomplishing a variety of things. Task number one is to validate our existence. We have assigned someone to provide The Arbiter with semi-weekly reports of our progress throughout the academic year. These "summaries" will report our accomplishments and efforts to our 17,000 students/supervisors, by increasing the number of positive stories to which visors, by increasing the number of positive stories to which students can directly link ASBSU. This consistency will hopefully assist in developing a certain level of trust which student government needs in order to operate not only effec-

tively, but also efficiently.

Task number two is to increase the visibility of our elected officials. ASBSU is making a priority to raise student government visibility this year. We need students to know that we not only exist, but that we serve a purpose. There are approximately 35 elected and appointed officials in student government, yet unfortunately, the average student may only recognize five or six of us. This is unacceptable! If we are to continue preaching the importance of involvement and its relationship to the acquisition of a "complete" college education, students must see us in a role of involvement. Being seen only in the newspaper is not good enough.

Once again, all of us at ASBSU wish you a safe, happy and relaxing summer. We are pleased to see the dramatic increase of those attending summer classes. Just remember that summer is a time to have fun, relax and save some money. Try and do at least one of these. See you this fall!

-Chris Mathias and the ASBSU staff

### Guest Column Pell Grants: Valuable program for students

By Betty Richardson

Higher education is the key to our nation's future, and I believe the opportunity to obtain a higher education should be available to all Idahoans, not just students who come from affluent families. Pell Grants represent decrease – support for our one federal program that can students attending universihelp make higher education a ties and colleges.
reality for many students At Boise State University reality for many students who otherwise would be alone, nearly 4,800 students who otherwise unable to afford college.

United States

In the United States Congress, I will fight to ensure that Pell Grants are finance expanded, and that tax credits for education are provided, so no one will be turned away from a higher education simply because it is not affordable.

Unfortunately, this Congress capped the maximum Pell Grant award at \$4,000, despite the steep increases in college tuitions and the recent squeezes on state budgets. While many in Congress pushed to increase been increasingly alarmed by

the maximum Pell Grant award by at least \$500 to \$4,500 per student annually, they were rebuffed by other lawmakers. At a time when students attending colleges and universities in Idaho are experiencing fee increases, I will fight to increase - not decrease - support for our

almost one-third of the student body - rely on the federal grant program to help studies. their Students who come from families lower income deserve the same opportunity to succeed as those who come from more affluent backgrounds. It would be wrong to pull the rug out from under them by freezing the Pell Grant program.

We know that 90 percent

of students who receive Pell Grants also graduate with student loan debt. I have

the amount of debt recent graduates have to confront just as they begin their careers. We need to do everything possible to make sure students at BSU and elsewhere are able to attain a college education and not be overburdened with debt far into the future.

Other alternatives should also be explored. One such alternative is the "College Opportunity Tax Credit." This initiative would help families by allowing them to deduct up to \$10,000 in college tuition and fees from federal income taxes.

As a member of Congress, I will fight to ensure that all Idahoans have the opportunity to build a brighter future by seeking a higher educa-tion. We cannot allow the American dream to become elusive. Everyone should have the opportunity to succeed. We must find ways to make college affordable to

Living With The Past



Betty Richardson is a former U.S. Attorney for Idaho running to represent Idaho's first congressional district. She is a graduate of the University of ldaho, and attended Boise Štate University for a semester while working at the Idaho State

Richardson taught American government and family law at BSU. Her husband, Peter Richardson, is a member of the BSU Alumni Association board and vice president of the BSU Foundation board.

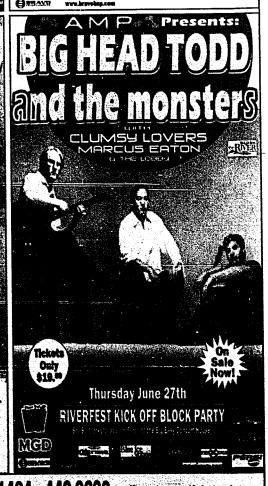




on tour or

Jessica Andrews

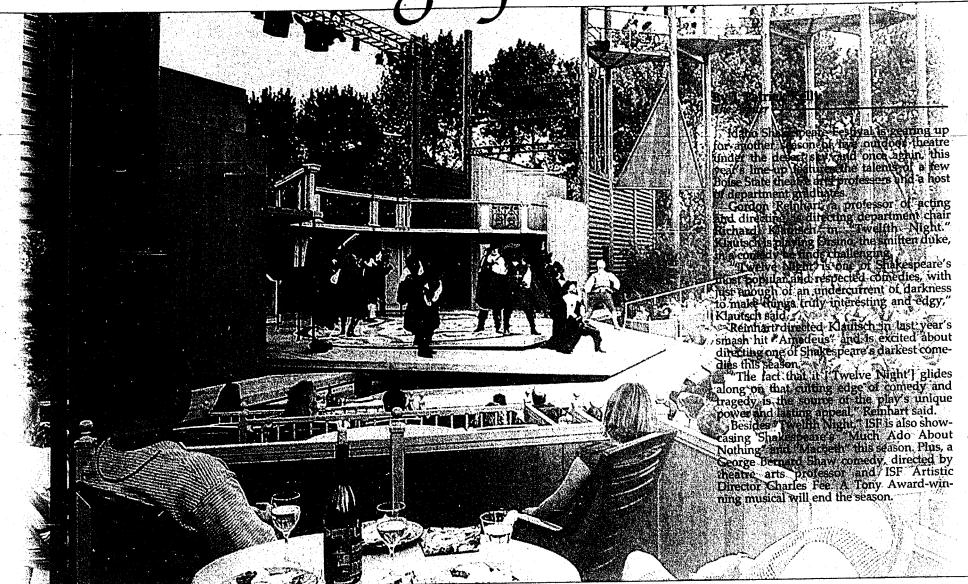
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## Diversions

ISF sets stage for new season



#### Twelfth Night:

This play is also known as "What You Will" in some theatre circles, but is commonly referred to as "Twelfth Night." The play takes place in Illyria, a town filled to the brim with zany antics and wordplay.

Ultimate disguise and mistaken identity are commonplace in this play, which is lauded as one of Shakespeare's finest black comedies. "Twelfth Night" is a great carousel of surprise and boasts non-stop laughs.

#### **Much Ado About** Nothing:

ISF is resurrecting last summer's popular comedy, "Much Ado About Nothing." Once again, the play is set in the '40s with plenty of swing music and post-World War II celebration.

The play deals with the upsand-downs of love and some good-natured ribbing amongst family and neighbors. Big band music and wide ties set the scene for this luscious romp through Swingtown USA.

#### Macbeth:

The line "Something wicked this way comes" sums up the nebulous nature of "Macbeth," one of Shakespeare's most popular tragedies. "Macbeth" is the story of one man's jour-ney through the dark side of witchcraft on his way to obtaining ultimate political power.

Macbeth negates his conscience in order to achieve the throne. Evil is the predominant theme throughout the play and riddles prevail. Come watch Duncan, Hecate and Lady Macbeth weave a of madness in web premiere Shakespeare's Scottish tragedy.

#### Arms and The Man:

Offered as this year's Shakespearean alternative, George Bernard Shaw's comedic farce, "Arms and The Man" is guaranteed to be a crowd-pleaser. Shaw, a Nobel Prize laureate, is one of the greatest playwrights of the 20th century and is also well known for his literary critique.

He wrote "Pygmalion," which was adapted to the stage and screen as "My Fair Lady,"
"Candida" and "Man and
Superman."

"Arms and The Man" is an amusing joyride, depicting the humorous nature of romance and the fallout of love.

#### You're a Good Man, Charlie Brown:

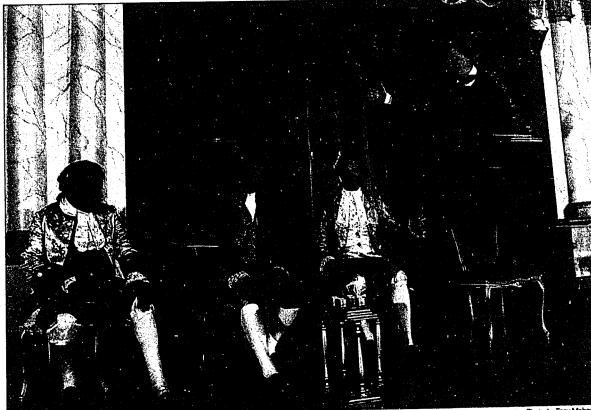
Based on the late Charles M. Schulz's comic "Peanuts," ISF is presenting "You're a Good Man, Charlie Brown" as their season-ending musical. This Tony Award-winning musical brings Schulz's hilarious characters to life as they tackle tricky childhood issues such as kite flying, puppy love and baseball.

Join Charlie, Schroeder, Lucy, Linus and Snoopy in this musical frolic through childhood memories. "You're a Good Man, Charlie Brown" is a production the whole family will enjoy.

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Players from last year's production of "Amadeus." From left to right: Frederick Charles Canada, Richard Klautsch, David Anthony Smith, Tom Willmorth

#### **Editorial Board**

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## Two outdoor excursions close to home

Affordable getaways in Idaho and Oregon

By Aaron Barton The Arbiter

Now that finals are a fading memory and most students have more free time, getting outdoors seems like a logical choice for alleviating the stress of academia. Of course, straying too far from home is not always financially feasible for those who have to work and save all summer. Here are two affordable weekend excursions close to home that will surely quell minor boutes of wanderlust.

#### Bruneau Dunes State Park, Idaho:

For an outing a little closer to home, Bruneau Dunes State Park is a great place. Three full-service campgrounds offer shade and plush grass, which is a welcomed reprieve from the hot and arid desert climate. The lake at the foot of the dunes is available for fishing, swimming and relief from the heat. Beware: Swimmer's itch is prevalent in late summer. Watch for posted signs.

If you're into sandsports, Bruneau offers some serious downhill fun. Whether your vehicle is a snowboard, saucer or piece of cardboard, cruising down the sandy slopes is popular summer sport at the dunes.

As you are attempting to scale the largest dune in the park, take note that you are hiking up the largest single dune in North America. The 500-foot dune can be a strenuous hike, so make sure to have plenty of water in your backpack.

Another unique feature of the park is the planetarium for checking out the amazing night sky. On Friday and Saturday nights, visitors have access to breathtaking views of the stars through a nice selection of park telescopes. The experience is well worth the fiveminute walk from the campground.

**GETTING THERE: I-84 East to Mountain Home** exit 90, then south on ID-51 about 18 miles. More info: www.idahoparks.org

Wallowa Lake, Oregon:

One of the most scenic and spectacular areas to visit in the Northwest is Wallowa Lake. This hidden gem in the northeast corner of Oregon boasts 9,000-foot peaks, along with ample camping, fishing, hiking and boating. The majestic Blue Mountains of the Eagle Cap Wildenses Area provides the back Eagle Cap Wilderness Area provide the back-drop for the lake and several miles of accessible hiking trails.

One of the peaks, Mt. Howard, is accessible by way of the local tram, which will whisk you up 4,000 feet where breathtaking views of Wallowa Lake and the Eagle Caps

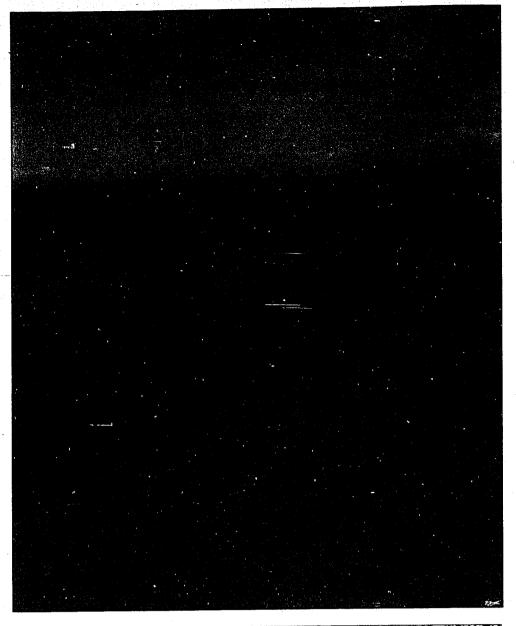
A state park on the south side of the lake provides the best camping in the area. There you can get tent sites with all the amenities (including warm showers) for \$16 per night. Or, if you're into nicer accommodations, the beautiful 80-year-old Wallowa Lake Lodge definitely fits the bill. The rustic lodge is next to the state park and runs \$65 per night.

GETTING THERE: I-84 West to La Grande, then east on OR-82 to Joseph. More Info: www.wallowalake.net

Right: A view from the top of Bruneau State Park's biggest dune.

Below: Majestic Wallowa Lake in the Blue Mountains of northeastern Oregon.

Photos by Aaron Barton





## Experts: Use sunscreen, common sense when sunbathing

By Lisa Toth Oregon Daily Emerald (U. Öregon)

(U-WIRE) EUGENE, Ore. Most college students know the sun is bad for them, yet they like spending time soaking up rays, especially during spring term when weather is better.

Dr. James Kitterman, a dermatologist in Eugene, Ore., said people know tan-ning is bad for them, like smoking, yet they continue to engage in the practice even when they know damage is being done.

'Anytime your skin tans, it's in response to skin damage," he said.

People have historically wanted to be tanned because they feel healthier, Kitterman said. In the 1700s states, Kitterman said people who were so wealthy that they did not need to work generally had "pristine white skin." But the class hierarchy is now reversed, Kitterman said. People with money can now afford tanning beds or leisure time in

"If you have a tan, it means, 'I can afford the time to go someplace (on vacation) or get a tan," he said. "And we have come to

believe that tan looks better.' But the myth that tan is better is slowly changing, Paula Staight, University of Oregon director of health education, who offers preventative education opportunities for stu-

dents on campus. "Bad Barbie Health Fair" in cer deaths, making it the

and 1800s in the southern front of the University Bookstore to give out information about skin protection and samples of sunscreen. According to a survey by

the American Academy of Dermatology, 81 percent polled still think they look good after having been out in the sun. More than half of those surveyed reported getting a tan in the past year.

Staight's advice to students is to limit exposure during the sun's peak hours

of 10 a.m. to 4 p.m. "Wear sunscreen, cover up, wear a hat and sunglass-

year-round," she said.
Skin cancer is the most common of all cancers, according to the American Cancer Society. Melanoma accounts for about 4 percent of skin cases, but it causes She recently hosted a about 79 percent of skin canmost deadly form.

The number of new melanoma cases in the United States is on the rise, with ACS estimating there will be 53,600 new cases in 2002. About 7,400 people are expected to die of the dis-

Kitterman also advised against students laying on campus lawns or sunbathing

He said 80 percent of the average person's cumulative lifetime skin damage occurs before they are 18 to 20 years old. So, most students have already done the majority of harm to their skin by the time

they hit college. However, it's never too late to be protected and keep existing skin problems from becoming worse.

Kitterman said the darker an individual's complexion, the less likely they will experience long-term skin damage. People who are most at risk of skin cancer include those who have white, fair skin, blue eyes and red hair.

"People who always burn pay the price," Kitterman said. He recommended being cautious of overexposure to the sun instead of being paranoid of skin cancer diag-

Kitterman recommended buying sunscreen with a sun protective factor, or SPF, of at least 15 to 30 and with sunbarrier ingredients such as Parasol 1789 or titanium

dioxide.

However, no sunscreen completely protects against the sun's harmful rays. Kitterman said the protection of SPFs above 30 is minimal and not a good excuse to stay in the sun an extra

He recommended applying sunscreen liberally, 15 to 30 minutes before exposure to the sun, and then reapplying the lotion 15 to 30 minutes after being out in the sun. But he said the general rule is to reapply every two hours, especially if a person has been sweating, swim-

ming or skiing.

"If you wait two and a half hours, you'll burn," he

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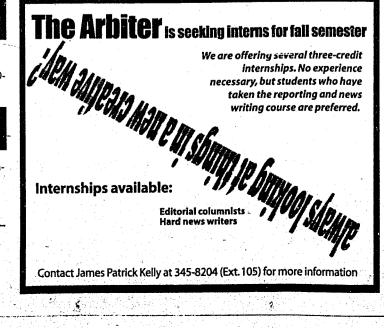
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Americas Doctor

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