

Memorial service for J.C. Raulston slated for Jan. 19

A memorial service for the late J.C. Raulston will be held at 2 p.m. Sunday, Jan. 19 at N.C. State's McKimmon Center. Raulston was a professor of horticultural science and director of the NCSU Arboretum during his time at the university.

Raulston is credited with founding the NCSU Arboretum in 1976 and building it into one of the world's most influential public gardens. The arboretum was named the top public garden in the nation in 1992 by the American Association of Botanical Gardens and Arboreta (AABGA).

Raulston also received several honors during his career, including the AABGA's Tom Dowd, Jr. Award for Excellence in 1996 and the Massachusetts Horticultural Society's George Robert White Medal of Honor in 1993.

Following the public service at the McKimmon Center, attendants will adjourn to the NCSU Arboretum for an informal remembrance.

NCSU names new wood and paper science department head

Michael J. Kocurek, a nationally recognized expert in paper science and engineering, has been appointed head of the Department of Wood and Paper Science at N.C. State's College of Forest Resources, effective Feb. 1.

Kocurek comes to NCSU after serving 10 years as executive director of Georgia's Herby Foundation in Savannah. He received his doctoral, master's, and bachelor's degrees from the State University of New York at Syracuse.

Woodard named Associate Provost

Joanne Woodard has been named the associate provost for equal opportunity.

Woodard's former title was interim affirmative action officer. The title change reflects the scope of activities for which Joanne and her office are responsible.

Inside Technician

Sports: Carolina outgrapples the Pack. **Page 3**

Opinion: Nichols calls tenure into question. **Page 8**

Tech Too: Weezer's coming. **Page 5**

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Council considers altering PE requirements

A new proposal would drastically change physical education graduation requirements.

By PHILLIP REESE
NEWS EDITOR

N.C. State's physical education requirements could change for the second time in as many years.

A proposal that would require students to pass four physical fitness tests and a basic-health information test before they graduate is being reviewed by the Council on Undergraduate Studies. The Council plays a major role in determining NCSU's curriculum.

According to the proposal, any student who passes the tests would automatically complete all PE graduation requirements at NCSU.

"With my proposal, a student who

passes these tests doesn't have to take any more PE at all," council member E.L. Peterson, the proposal's author, said.

Students would be required to pass an aerobic test, a body-fat test, a muscle flexibility test and a strength test.

Those who could not initially pass any of the four fitness tests would have to enroll in a special PE class until they could pass the test(s) or until they could show "reasonable progress" toward passing the test(s), Peterson said.

The PE department would determine what "reasonable progress" is, Peterson added. He also stated that the PE department could require students to work indefinitely toward passing the fitness tests.

"A student who is in bad physical shape might have to spend a certain amount of time in PE each week

during his or her career [at NCSU]," he said.

The physical fitness tests would require students to prove that they are "at performance levels currently recommended nationally as minimal levels for adequate physical fitness," Peterson said.

"These tests will only need to be passed at physical fitness levels that most people should be at," he said. "These levels will not be set by the PE department. They will be set by national authorities."

The basic-health information test would cover proper hygiene, nutrition and stress management, among other things.

Students would be given two chances to pass the basic-health information test. Those who could not pass the test would have to complete a one hour, one semester PE course.

If the proposal is passed, students

who are currently attending NCSU could probably still choose to complete the current PE graduation requirements, Peterson said. These requirements specify that students must complete four PE credits before they graduate.

Current NCSU students could also choose to fulfill the proposed PE graduation requirements, Peterson added.

If the council approves the proposal, NCSU's Course and Curriculum Committee and the Faculty Senate would be given a chance to comment on it before it is sent to the provost for final approval.

Council Chair David Greene said the provost would have to study the new PE requirements thoroughly before he approved them. "I wouldn't expect the provost to make a decision any time this semester," he said.

All of the council's recommendations concerning curriculum changes must eventually be approved by the provost in some form, according to Greene. "They certainly do get implemented in the process," he said.

Students have mixed opinions about the potential changes. Flora Shabani, a junior in biochemistry, said the proposed PE requirements appear to be more flexible than the current requirements.

"I think four credits is asking a lot," Shabani said. "If you want to take a PE class, it should be an option."

But Jonathan Tucker, a sophomore in mechanical engineering, said the proposed PE requirements are too vague.

See PE, Page 2

Associate Vice Chancellor apologizes to faculty

Jeff Mann told the Faculty Senate that N.C. State Bookstores' "Finals Madness Sale" was a big mistake.

By DANIELLE STANFIELD
STAFF WRITER

As a result of a N.C. State Bookstore sale that encouraged students to sell books before final exams last semester, Jeff Mann, supervisor of NCSU Bookstores and associate vice chancellor, apologized to the Faculty Senate Tuesday.

"We screwed up," Mann said. The sale offered students 20 percent more on books sold back during the "Finals Madness Sale."

Professors said the bookstore offered an incentive to those who sold their books before exams. Mann said he realized his mistake and extended the sale through exams week.

"We bought back a lot," Mann said. He also said the bookstore makes its own profit from school supplies and logo merchandise, not textbooks or computers.

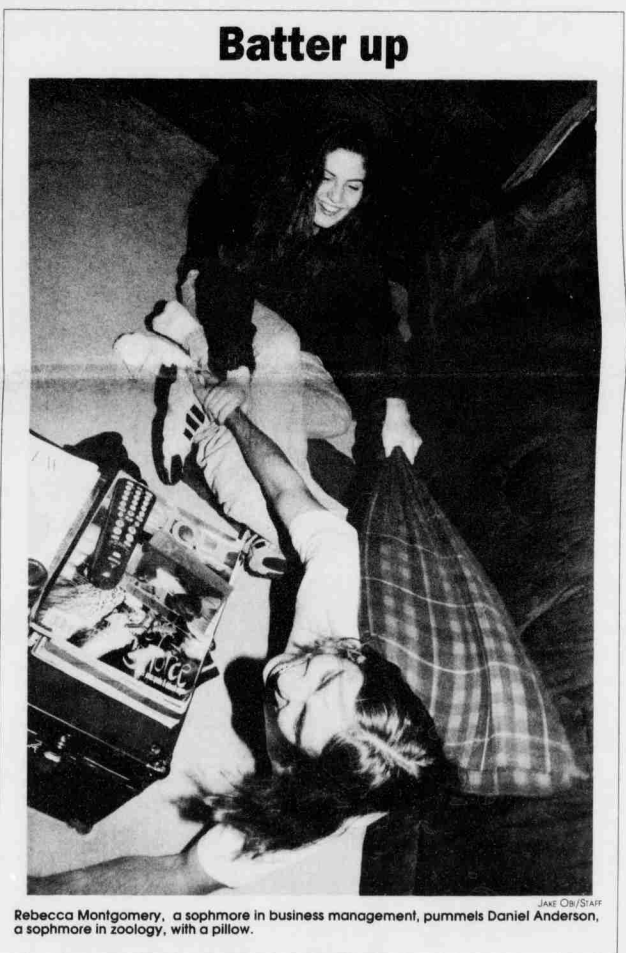
Revenue generated by textbook and computer sales goes toward scholarships, Mann said. The bookstore produces \$1 million worth of scholarships each year.

In other business, a resolution was passed by the senate to support the further development of the Teaching and Learning Center at NCSU.

As stated in the resolution, the idea behind the center is to prepare teachers for their professions and to improve their effectiveness with students.

The center will offer workshops, professional assessment of

See SENATE, Page 2



Rebecca Montgomery, a sophomore in business management, pummels Daniel Anderson, a sophomore in zoology, with a pillow.

Batter up

Professor develops eye-opener

A professor here at N.C. State may have the answer for people suffering from blindness.

By APRIL HARRISON
STAFF WRITER

N.C. State professor Wentai Liu can't heal the sick, but he might be able to make the blind see again.

Liu, associate professor of electrical engineering at NCSU, along with researchers from Duke University, UNC-Chapel Hill and Johns Hopkins University, is designing an artificial retina that, if successful, could allow the blind to see.

Liu and Elliot McGucken, a doctoral student at UNC-Chapel Hill, have worked since 1988 to create an artificial retina component chip (ARCC).

The ARCC was developed in an attempt to restore sight to patients with retinal pigmentosa or macular degeneration.

Patients with these diseases have retinas that are functioning poorly because the photosensors, or light receptors, in the eye are no longer working. Without light, the nerves in the retina cannot send the impulses to the optic nerve, and eventually, images to the brain.

However, while the photosensors in the retina may not work, the nerves behind them, called ganglia, are still active and responsive to stimuli, Liu said.

In 1988, Mark Humayun from Johns Hopkins experimented with stimulating these ganglia in the retina, and found that blind people could be made to see points of light.

"The question posed to us was: Can we design a device which takes the light in, and gives the electronic signals out?," Liu asked. As it turns out, they can and they have.

The ARCC is a minuscule silicon chip which is two millimeters square and two hundredths of a millimeter thick. It is covered with photosensors and is placed into the lens of the eye.

A stimulator is placed in the back of the retina near the still-active ganglia. When light enters the pupil, the photosensors in the ARCC take in the light and send it to the stimulator in the back of the retina.

The stimulator then activates the ganglia nerves with a pattern of electrodes, producing partial restoration of vision, Liu said.

The rods and cones in the eyes act similar to the dots, or pixels, on a television screen. With retinal degeneration, the rods and cones become inactive. The ARCC replaces the functions of the rods and cones, but more primitively.

The current ARCC contains 25 pixels, compared to the enormous number in a healthy eye.

"Depending on the number of pixels used, the resolution will change," Liu said. However,

See RETINA, Page 2

The Board of Visitors gives NCSU's administration a fresh perspective on important issues.

By BRYAN WATPKA
STAFF WRITER

A little-known gweildroup of individuals from around the United States play an influential role in decision-making at N.C. State on a regular basis.

The Board of Visitors was established five years ago to offer impartial advice and recommendations to the chancellor.

Members of the board live in all areas of the country, have very diverse jobs and backgrounds, and may only come to Raleigh for their board meetings.

According to June Brotherton,

assistant to the chancellor, "the whole idea is that sometimes you have to bring people who are not directly connected with the university to look at the university."

She explained that these individuals may offer a new perspective in instances where there are creative solutions that have not been thought of.

"It's like a breath of fresh air looking at the university," she said.

Each member cares about NCSU and what happens to it. "The board is a group of people who have a connection of some form or fashion to N.C. State," Brotherton said.

She said board members either have a child here, are an alumnus, or work in a business that may hire NCSU graduates.

"Their role is to come onto campus, to look at issues that are

impacting N.C. State University," she said, "and to offer advice and recommendations on those issues to the chancellor."

She said board members bring their unique work-related experiences with them when they come to board meetings.

"All of them bring certain experiences to bear in looking at the issues we face," Brotherton said. During the November meeting, 13 new members were selected to serve four-year terms.

This meeting divided them into four subcommittees: external relations, Centennial Campus, internal issues, and institutional direction.

According to Brotherton, "they study in-depth issues that the Board of Trustees can't necessarily get to in the short period of time that they have."

The only compensation members

receive is payment of travel expenses.

"They are volunteers who are doing it because they like N.C. State," Brotherton said.

Each NCSU college has a representative on the board, and the rest are at-large members.

Board members must be nominated and the chancellor hand-selects the final nominees.

"The chancellor selects a broad representation of the students, faculty, and programs of NCSU," Brotherton said.

The chancellor also picks those who are able to address current issues, and the Board of Trustees approves the membership of the board.

The current chair is NCSU graduate John Atkins, head of O'Brien-Atkins Architectural Firm in the Research Triangle Park.

Senate

Continued from Page 1

classroom lectures, training in methods and skills, and other assistance.

Another item discussed involved NCSU's Undergraduate Research Symposium. Sarah Rajala, Associate Dean of Engineering and Committee Co-Chair of the Symposium Committee, urged the Faculty Senate to encourage students to participate. This is the forum's 6th year at NCSU.

"This forum recognizes [the participant's] contribution to research on this campus," Rajala said. The McKimmon Center will host the forum on April 17 between 9:30 a.m. and 12:15 p.m. and again between 1:30 and 4:15 p.m.

PE

Continued from Page 1

"I don't think they sound fair," Tucker said. "It sounds like some people would scoot by and some people wouldn't. I don't see how they are fairly judge that."

Ryan Spratling, a freshman in Agricultural Business, said both the current and proposed set of PE requirements are good enough for him.

"Either way people can get off their butts and do something," he said.

The Council on Undergraduate Education will discuss the proposal with interim PE head Lynn Berle on Friday.

Retina

Continued from Page 2

successful outcomes with the present prototype will push researchers towards adding more pixels and increasing the intricacy, and therefore the resolution of sight, of the ARCC.

After the completion of the ARCC prototype, it was sent to Johns Hopkins for tests. Researchers have tested rabbits, frogs, and human subjects.

"In one clinical study, the patient with the ARCC was able to see the pattern of the letter E," says Liu.

However, Liu wants to stress that use of this chip in patients is still far from being common practice. Many improvements need to be made.

However, "with proper funding to take it around to surgeons, I would say it is maybe five to 10 years away," says Liu.

With perks come pressures for student athletes

■Athletes at Syracuse University get free premium meals and stay at nice hotels.

By JENNIFER BOUTCHER, SARAH LAYDEN, CHRIS IVEN, JEFFREY WEINGAST and JASON WIGENER
THE DAILY ORANGE (SYRACUSE, U.)

(U-WIRE) SYRACUSE, N.Y. — As a full-scholarship football player at Syracuse University, sophomore Mathieu Beaudoin enjoys a college education worth about \$130,000.

That is not all an athletic scholarship gets him. Like all football players, Beaudoin eats great meals every day of the week and lavish meals on the road. He stays in hotels the night before home and away games.

And unlike most students who wait in long lines at the University Bookstore, Beaudoin gets his textbooks delivered every semester.

"People say we're lucky to have a scholarship, but we work hard for it," he said. "It's not free."

"(The cost of an SU education) is not that much compared to what we bring into the school."

For Beaudoin and many revenue-sport players, "student athlete" is a double-edged sword. With perks come additional pressures. A single dropped pass or missed kick could be the difference between the Orange Bowl and the Liberty Bowl — between earning \$70,000 and \$8 million for SU.

"Fans pressure the coaches, so the coaches put pressure on us," Beaudoin said. "All the pressure comes down to us."

Athletes do get some special benefits, he said, but hours of daily practice and frequent away games make balancing athletics and academics a challenge.

Because of money, fans and the NCAA, the university treats athletes differently from other students. Most athletes enjoy special benefits, yet they also face special pressures.

Many of those privileges and pressures fall upon SU's football team.

Football players eat better food than most students have in dining halls, according to team member Deon Maddox, a graduate student. Three times daily during preseason and every evening during regular season, he and his teammates gather for a "training table" meal at a special cafeteria in Manley Field House.

"It's a team atmosphere," Maddox said. "It's a time of being together."

Part of the cost of the cafeteria is absorbed by the players' meal plans, and the additional cost is billed to the Department of Athletics.

No other students are allowed to use the facility, which is set up to meet the players' specific nutritional needs.

The food is "probably not the same variety" that students get in dining halls, Athletic Director Jake Crothamel said.

During away trips, Maddox and his teammates eat meals worth as much as \$40. Comfortable hotel beds await the athletes the night before games, in Syracuse as well as on the road.

In Syracuse, the team stays at the Sheraton University Hotel and Conference Center, 801 University Ave.

The athletics department will not release how much it pays for the rooms.

The practice of putting up football teams in hotels before home games is fairly common and is also practiced at Virginia Tech, Tech compliance officer Derek Carter said.

In all, SU pays about \$5.4 million for hotels, transportation and other expenses for its athletic teams each year.

Some team meals are free even for the school. An SU alumnus treats Syracuse football team members whenever they travel to play Boston College.

This year, players eat \$40 meals at one of the city's finest restaurants, Legal Seafoods on Boylston Street. The bill came to about \$3,400 for 82 team members and coaches, according to restaurant manager Tom Brosnahan.

For some scholarship athletes, the cost of their meal plan may be transformed into a high Supercard balance. That way, they may eat at the Kimmel Food Court or the Goldstein Student Center when they cannot eat at a dining hall because of practice schedules.

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Answers

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| STEW | LOOKUP | TO |
| TRIAL | W | AIR |
| COMM | TIEL | |
| LOOK | SEES | SETH |
| ADV | WELMOS | OWE |
| BEES | LOOK | NON |
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Sports

Technician


January 15, 1997

Volume 77, Number 46

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New kids in cellar

Break out the jerky because the wine and cheese days are numbered.

Carolina sucks. No, seriously. Whether or not Herb Sendek and his players can pull out a rare victory in Chapel Hill tonight, Wolfpack fans should not be concerned. Take heart, people, we're on our way back to basketball glory. And Carolina is not. Even more encouraging than the rapid descent of "wine and cheese" hoops is the future of Wolfpack

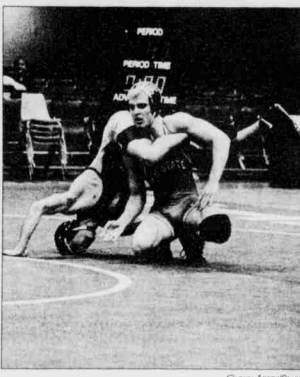
Heels pin Wolfpack

State blew an early lead over the powerful Heels.

BY JENNIFER TAYLOR
STAFF WRITER

Sometimes you have to grab 'em by the throat and tell them to win — or else, according to Bob Guzzo, N.C. State head wrestling coach. However, this tactic did not prove to work Tuesday night at Reynolds Coliseum. North Carolina won the final five matches to defeat State 26-9 in the Wolfpack's first ACC match.

"I think we did better than expected with the holes in the lineup," assistant coach Dave Auble said. State opened the match with an 11-5 upset win by 118-pounder Lee Carroll over Carolina's Chuckie Connor, 1996 top recruit and two-time state champion. However, Carolina's C.C. Fisher tied the match at 3-3 with a 5-1 win over Greg Bauer at 126. "Carroll really came through as a big surprise tonight," Auble said. "He played a good, sound match."



Despite tosses like this, Carolina rolled to the win.

State's Jelani Chase put the Wolfpack back in the lead at 6-3 with a 5-3 win over Carolina's

Pack looks to rebound at Duke

Kay Yow's Pack looks to correct some recent mistakes.

BY K. GAFFEY
STAFF WRITER

Maybe they learned. According to Virginia coach Debbie Ryan, the difference in this weekend's game when her Cavaliers downed the N.C. State women's basketball team 64-62 was that Virginia had learned how to win.

Maybe the Wolfpack took notes. State is 0-3 in its last three games, dropping contests against ACC opponents Georgia Tech, Clemson, and the Cavaliers.

State looks to pick up its second conference win of the season tonight against the Duke Blue Devils.

In the teams' last meeting, the Devils knocked the Wolfpack out of the ACC tournament with a 79-62 victory in the semifinals.

State won both regular season match-ups in 1995-96, including a 80-74 win on the Devils' homecourt. Duke has won only two games in Reynolds Coliseum in the past decade.

However, the Blue Devils' return as one of the top teams in the conference.

Under the tutelage of Gail Goetseniors, last season's ACC Coach of the Year, the 1995-96 Blue Devils set a school record with 26 wins, as well as finishing with the school's best ever ACC record, at 12-4.

In the past two seasons, Duke has earned national recognition, earning

Oh! Cain leaves for VMI

Offensive coordinator, Ted Cain, left the Wolfpack staff Monday after 11 years in the head job at the Virginia Military Institute.

BY J.P. GIGLIO
STAFF WRITER

The Virginia Military Institute hired N.C. State assistant coach Ted Cain Monday as its 27th head football coach.

Cain has served on the Wolfpack staff for 11 seasons, and spent the past four as the offensive coordinator. Prior to his time at State, Cain coached at Furman under former NCSU head coach Dick Sheridan. As the Paladins' passing game coordinator, the team won six Southern Conference championships.

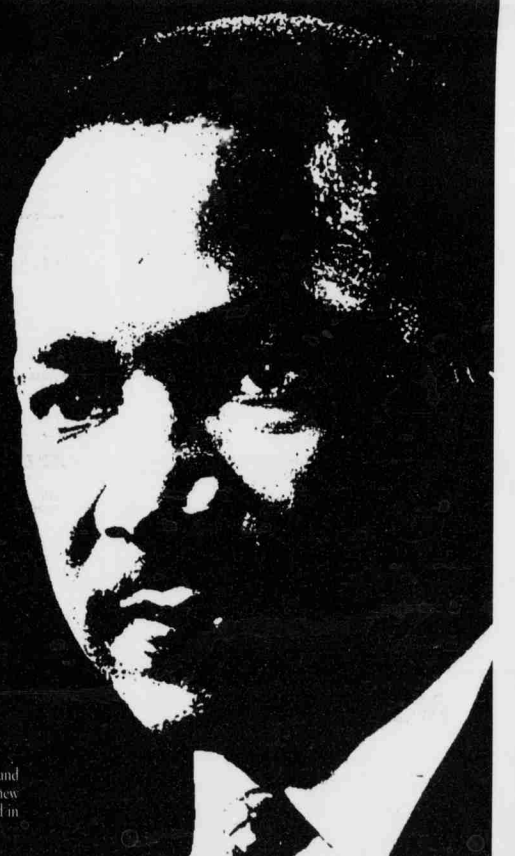
Cain played tight end at Furman from 1971-1973. Following his graduation, Cain joined the U.S. Army. Cain's military experience and his knowledge of the Southern Conference, drew the Keydets to the 43-year-old Aiken, S.C. native.

"He brings all the tools necessary to win at this level," VMI athletic director Davis Babb told the Associated Press.

See Lat., Page 6 >

See Cain, Page 6 >

See Duke, Page 6 >



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NATIONAL NEWS

Media ethics in spotlight

■ The recent ABC-Food Lion Case and increase in camera technology has brought the law and morals into media's undercover techniques.

By ELEANOR RANDOLPH
Los Angeles Times

NEW YORK — The "lipstick camera" may have changed the face of investigative journalism, at least on television.

Today's mini video cameras, some the size of a lipstick canister, can be hidden in a reporter's baseball cap or a producer's wig, and they give television news an easy way to sneak the view behind the scenes. Child pornography via the Internet, lax airport security and unclean fast food joints have all been subjected to the probing of undercover journalists armed with the tiny devices.

But this micro-technology also has revived an old ethical question: When is a story so important that a journalist must deceive in order to tell the truth?

For ABC News the question is especially crucial these days, as the TV network awaits a North Carolina jury's decision on how much it should pay Food Lion Inc. for a 1992 story about the grocery store chain.

The federal jury decided last month that ABC had trespassed and committed fraud during a "PrimeTime Live" segment that used undercover reporters and hidden cameras to document charges that some stores sold tainted meat and overripe fish.

Food Lion, which denies any

unclean or unsafe food practices, did not challenge the truth of ABC's report in court by suing for libel — a difficult charge to prove in most cases. Instead, the company, which has 1,100 stores in 14 states, argued successfully that it was defrauded by ABC reporters who misled Food Lion's personnel office in order to gain access to company premises.

"They were using Food Lion as a sound stage," said Donna Walters, a spokesman for the grocery company said last week.

The Food Lion verdict already has raised an outcry from some news advocates who see it as an erosion of constitutional protections for the media. But others hope that the Food Lion case will force journalists to re-examine whether they should re-examine themselves or even lie in order to get a higher truth.

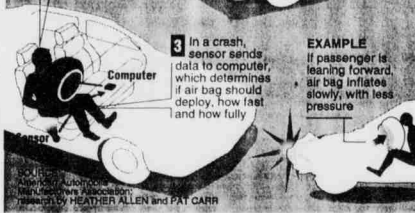
"Journalism is centered on the question of truth," said Christians, who is an expert on media ethics. "Just as justice is to politics and healing is to medicine, so is truth the essence of good journalism and deception is the opposite of it."

Christians, using a system outlined by Sissela Bok in her book "Lying," said that before any use of subterfuge, a journalist should ask three questions: First, have you tried everything else? Two, can you come up with some moral principle, some ethical issue that is so important it justifies deception? Three, can you justify it to the person or people like the one you will deceive so that eventually they can say, "I don't like it, but I see why you did it?"

"I fear that the technology and the function of getting something done visually have overrun the moral imperative here," Christians said.

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3 In a crash, sensor sends data to computer, which determines if air bag should deploy, how fast and how fully

EXAMPLE If passenger is leaning forward, air bag inflates slowly, with less pressure

New evidence found for 'event horizon'

■ The Hubble and land-based telescopes helped make what scientists believe is the 11th black hole detection.

By KATHY SAWYER
The Washington Post

TORONTO — Astronomers Monday reported they have found the first direct evidence of the existence of an "event horizon," one of the most bizarre concepts in physics and a defining feature of a black hole.

An event horizon is, in effect, the rim of the black hole — a sharply defined edge into which anything can fall and from which nothing, including light, can ever escape. Once having fallen through this one-way membrane, matter or energy is lost to the known universe forever. Nobody knows for sure, of course, but theorists speculate that objects and energy that fall into a black hole reemerge elsewhere in the universe, or perhaps in other universes.

In this case, a team led by Ramesh Narayan of the Harvard-Smithsonian Center for Astrophysics in Cambridge, Mass., found gas at temperatures of over a trillion degrees — the hottest temperatures known in today's universe — disappearing down a black hole. "The (black hole candidate) seems to be swallowing nearly a hundred times as much energy as it radiates, and the only way this can happen is if the star is a black hole," said Narayan, who described the new findings at a meeting of the American Astronomical Society. "This is the most direct evidence scientists have had that black holes are real."

The findings, astronomers said, add considerable weight to the growing body of evidence supporting the existence of black holes, which are dense, collapsed objects whose gravity is so strong that nothing — not even light — can escape.

Astronomers had toyed with the notion of black holes in earlier

See BLACK HOLE, Page 9

U.N. receives letter bombs, one explodes

■ The latest flood of bombs leaves experts baffled, still with no evidence, motivation, or source of the bombs.

By FRED BARBASH
The Washington Post

LONDON — A new salvo of letter bombs landed at the headquarters of the Arabic-language newspaper Al Hayat here Monday, and one of them exploded, injuring two security guards.

Three other mail bombs were found at the United Nations in New York, addressed to Al Hayat's news bureau there. Authorities said the bombs in both London and New York appeared similar to those mailed to the Washington office of Al Hayat and the federal penitentiary at Leavenworth, Kan., two weeks ago.

In an apparent continuation of a

terrorist offensive that neither law enforcement nor newspaper officials can explain, a total of four bombs was discovered here Monday morning in the mail room of Al Hayat, a prominent Saudi-owned newspaper that circulates throughout the Middle East. One security guard was seriously injured when he retrieved one of the bombs from a security scanner, and a second suffered lesser injuries. Police then destroyed three similar devices.

In New York, guards at U.N. headquarters evacuated three floors of the building for about two hours after finding the first of the three letter bombs there. All were disarmed by police demolition experts.

Police and senior editors of Al Hayat said they have no evidence indicating who is behind the bombing campaign.

S. African arms deal angers U.S.

■ Pretorian officials feel restricted by U.S., while Washington is afraid of increased terrorism.

By DELE OLOJEDE
Newday

JOHANNESBURG, S. Africa — A very public display of acrimony is not usually part of the relations between this country and the United States. More often, Washington and Pretoria are locked in warm embrace.

But news of a proposed weapons sale to Syria by South Africa has suddenly created a bout of ill-temper in Washington and Pretoria, with a U.S. spokesman threatening that the United States might cut off economic aid to South Africa, and

President Nelson Mandela's office angrily charging blackmail and insisting it would do what it wanted.

Sunday, newspapers here published minutes of a December meeting of Mandela's Cabinet, in which the government tentatively accepted a task-force's recommendation that tank-firing systems worth about \$650 million be sold to Syria, a country the United States considers excessively friendly to terrorists.

The proposed arms deal is in fact conditional on the approval of Thabo Mbeki, Mandela's deputy, who did not attend the December meeting and is not expected to make a decision until the next Cabinet meeting, Jan. 22, if then. Mbeki is in charge of the day-to-day running of the government, and he is known to be sympathetic to U.S. concerns.

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January 15, 1997

Volume 77, Number 46

Design student to show apparel

Eastern-inspired fashions hit the runway in 'Soul in a Jar'

■ Fashion comes to N.C. State's Stewart Theatre Thursday Night.

BY KELLY MARKS
STAFF WRITER

Stewart Theatre will come alive with a barrage of sights and sounds. "Soul in a Jar," a fashion show spotlighting Joe Hall and guest designer Rachel Cho, promises to deliver entertainment for the eyes and ears.

The show begins this Thursday with a reception at 8 p.m. Disc jockeys will be on hand to provide background music, and student artwork will be on display for viewing enjoyment. The models are set to take the catwalk at 9:30 p.m., wearing Joe Hall's Spring Collection.

Hall, a senior in Environmental Design, is not new to the fashion

industry. He had his first showing last May. "I've always had an interest in clothing — since I was little, but I'm more interested in the process of designing than the clothes," he said.

Hall also has an interest in furniture design and will graduate with a degree in furniture-making and painting. He does not like to be classified as a fashion designer.

"I like to design things, whether it's clothing or chairs," he said. "It's more about politics. When you say you're a fashion designer — it's more restrictive."

Hall credits the Eastern hemisphere for much of the inspiration behind his line. He cites Chinese, Japanese, African, and Indian patterns and styles as his influences. Many of the fabrics he uses are long and flowing.

His line predominantly features dresses and is characterized by its

body-conscious styling. However, Hall stresses that this does not mean he designs for only thin, waifish Twiggy-types.

"I use normal, everyday girls in my show. There are some professional models, but my fashions are for all ages and body types," he said. "Too many designers are aiming for some target market. I design for everyone."

The show will run from 8 to 11 p.m. with tickets available at the entrance to Stewart Theatre that night. Prices are \$2 for students and \$4 general admission.

All two-dimensional works not exceeding 18 by 24 inches and statues of reasonable size are welcomed for display. Artists who are interested in displaying their work during the show should contact Hall at 512-8087.

After the show, Hall will be taking orders for his designs, which he can

customize.

Hall will also be showing his line at Alive on Feb. 14, from 2 to 8 p.m. The event, hosted by "A Safer Place Youth Network," will feature several designers and boutiques with proceeds benefiting the gay and lesbian community. During this time, Hall will reveal his new men's clothing line in conjunction with his spring dresses.

Show pieces will be available to buy and each runway garment will be signed and numbered. Tickets for this show can be obtained at many local stores, including Endless Grind, Aloha 2, Curious Goods, and Detour.

Hall sees fashion design as a part of his future, but not his life's work. When asked what he would like to do with his line he commented, "All of the fashion trends start in the North. I want to start the trends in the South and move them up."

Your Horoscope



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ARIES (March 21-April 19) — You're not sure how to execute a certain task that arises in connection with work early in the week. Seek advice from someone who has had a similar challenge and can help. Weekend socializing wears you out.

TAURUS (April 20-May 20) — Sit through social invitations and accept only those with which you are comfortable. If not, you could find yourself yawning through a terribly boring event, rife with dull people. Weekend domestic chores dominate your time.

GEMINI (May 21-June 20) — There's a lot of incredible talk going around concerning a proposed business venture. Although it sounds exciting, it doesn't amount to much in reality. Spend the weekend resting and studying up on your investment options.

CANCER (June 21-July 22) — You have too much going on all at once and need to simplify in order to be more effective. Tackle only one task at a time, starting with the most important. Partnership interests come to the fore this weekend.

LEO (July 23-Aug. 22) — You're so put off by a misunderstanding with a loved one, you withdraw into yourself early in the week. This causes unnecessary hard feelings. Break out of your silence and reach out to this person.

VIRGO (Aug. 23-Sept. 22) — You're on the wrong track concerning someone's intentions for you. Generally, your intuition is good, but not this time. Avoid a tendency to jump to the wrong conclusions. A weekend social

invitation is intriguing. **LIBRA (Sept. 23-Oct. 22)** — Unfortunately, the key word for you is delay this week. Whether traveling or sticking to home base, you're tripped up when trying to achieve something. The weekend centers around a fascinating conversation.

SCORPIO (Oct. 23-Nov. 21) — The home front is a veritable beehive of activity as you flit from task to task. Enlist the cooperation of others and you can achieve more. Spend the weekend relaxing from your tiring exertions and admiring your handiwork.

SAGITTARIUS (Nov. 22-Dec. 21) — You're the life of the party, and your spending knows no bounds. However, you should try to exercise some restraint. You don't have to impress others by being a spendthrift. A minor spat arises this weekend with a loved one.

CAPRICORN (Dec. 22-Jan. 19) — It's one little thing after another to get in the way of what you want to do this week. Perhaps it's best to put these tasks off for a more auspicious time. Your budget ideas are sound and should be followed.

AQUARIUS (Jan. 20-Feb. 18) — Plans you'd made previously are subject to mix-ups this week. Don't let this disappoint you. There's plenty you can get done around the home front. A weekend phone call brings exciting financial news.

PISCES (Feb. 19-March 20) — An argument erupts this week with your significant other over a financial concern. However, you have right on your side and should stick to your point as diplomatically as possible. Trust your instincts.

Weezer brings funky-punk to Raleigh

■ Say it ain't so. Oh, but it is — Weezer's at Marz.

BY KELLY MARKS
STAFF WRITER

With their latest single "The Good Life" enjoying much air play these days, Weezer seems to be living just that. The Los Angeles-based band has witnessed a lot of changes in the past three years.

With the release of their first self-titled album in May of 1994 the

public watched the band make the transition from the garage to the top 40 countdown. Due to songs like "Undone - The Sweater Song," "Buddy Holly," and "Say It Ain't So," the sleeper hit went double platinum by 1995.

The band is currently on tour in support of their second effort, "Pinkerton." This sophomore release features the same power chords and social harmonies of before, but their light and sometimes quirky lyrics go a shade darker this time around. The

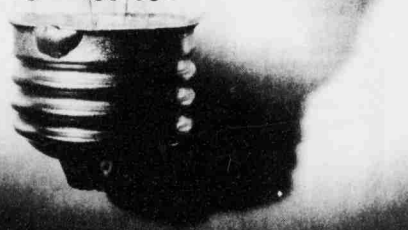
issues are less whimsical, but the music is by no means less powerful or hypnotic — the catchiness and hum-ability that characterized the first album is back in full force. Highlights of the album include "El Scorcho," "Across the Sea," and the upcoming release, "Pink Triangle."

Weezer will appear at Marz this Wednesday as part of their January concert schedule. The club started 1997 with a huge remodeling, revealing its new image this past weekend during a grand re-opening

bash. Other concerts are set to follow in the series, including KC and the Sunshine Band at Marz on Feb. 1.

Tickets for Weezer are on sale for \$12. The door opens at 6 p.m. with the show set to begin at 8 p.m. Opening for the group will be the Nerf Herders, a band gaining fame for its song "Van Halen," a celebration of David Lee Roth's departure. Marz is located on 912 West Hodges St., off Wake Forest Road. For information, call 834-5797.

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Earth Share

Cain

Continued from Page 3

Under Cain's guidance, the Wolfpack offense recorded five of its 10 best seasons in terms of total yardage. Also seven of its top 10 passing yardage totals.

Cain replaces former North Carolina assistant Bill Stewart, who resigned after being accused of calling an unidentified African-American player a racial epithet during a practice before the end of the season.

Under Stewart, VMI went 3-8 last season and 8-25 in three years. The Keydets haven't had a winning

season in 15 years. "I think we're going to move forward in a very positive way," Cain said.

VMI originally sought one of its own graduates, former San Diego Chargers coach Bobby Ross, but Ross declined and signed with the Detroit Lions on Monday.

Cain's departure leaves an opening in the State staff which will probably be filled by a defensive coordinator.

State's defense surrendered 40 or more points, six times in the 1996 season en route to giving up a school-record 401 points and 4,706 yards. Head coach Mike O'Connell is reportedly looking at former State defensive coordinator Joe Pate.

Duke

Continued from Page 3

the school's only consecutive NCAA bids, and national rankings. Senior Tysh Hill, the Devil's top scorer and rebounder from the 1995-96 season, leads Duke, along with classmate Kira Orr and Windsor Coggeshall.

Duke finished third in the ACC last season, one spot ahead of the Wolfpack.

State will have to correct their mistakes from the Virginia matchup in order to pull off their fifth consecutive win over the Devils in

Reynolds. "We need to work on execution," State coach Kay Yow said after this weekend's loss.

"Turnovers and free throws are going to be key at the end of games," continued Yow. State players missed the front end of five one-and-one free throw opportunities in the last six minutes.

Only three Pack players scored in double figures, and the team shot a meager 35 percent in the second half.

The game tips off tonight at 7 p.m. at Reynolds Coliseum. Student tickets are available with a student ID at the Coliseum box office.

Lail

Continued from Page 3

basketball. And to most people, perfect N.C. State success goes hand-in-hand with the decline of Dean's boys. Carolina is 0-3 in the ACC for the first time in 44 years and their fans are growing restless.

Just ask Dick Vitale. The Heels will probably get their 20 wins and another NCAA bid, and Dean will break the holy record of most career wins held by Kentucky's Adolph Rupp.

But maybe just barely. Carolina is still reeling from blowing a 22-point second-half lead at home to Maryland. The Heels then went on to get shellacked by Virginia.

The Pack, however, took No. 2 Wake Forest to the edge at home and managed to do basically the same with Maryland. In both of those games, the Pack shot dreadfully while keeping their opponents from doing much better.

State basketball has a bright future. With the exceptions of Clemson and Wake Forest, no other program in the ACC has more promise.

Sendek has already put together one of the finest recruiting classes in the nation. Unfortunately, Duke has a slightly better one. But then again, even Greg Newton was

once good. Conversely, Carolina has always put together outstanding class after another. This year's Tar Heel team has five McDonald's All-Americans on the squad, yet they are struggling to find themselves. The old adage, "Dean Can't Coach" is beginning to rear its head.

This year's State squad has no McDonald's All-Americans, but it has some seniors and juniors who've been in this situation before. The baby-blue leaders down the road are no doubt panicking right about now.

Good news for the Heels is that State has not won there since 1991-92. But the Clemson Tigers, on the other hand, have never won at Carolina, yet there seems to be no doubt that Rick Barnes has Tigertown crazy with the future of Clemson basketball, while the people at Carolina are nervous with the fear that maybe they're not that good anymore. Sniff-sniff.

Dave Odom and his Demon Deacons came from out of the shadows of the Triangle to become the top program in the state. Odom did it slowly and methodically, gradually building Wake into a national power. Expect Sendek to do the same.

Don't be upset if Carolina wins tonight. Smile and remember, the days of being the red-headed stepchild of the area will soon be over.

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Name: Michael Jason "Mike" Preston
 Occupation: Technician Sports Writer
 Zodiac Sign: Scorpio
 Height: 6'5" Weight: 185
 Favorite Food: Salt
 Favorite Movie: Tremors

Mike, a narcoleptic, lost seven straight times while playing with the Washington Generals basketball club, alongside former ACC star King Rice. Mike enjoys cribbage, tractor pulls, zoo-keeping and reading Cicero.

Turn-offs: Big necks, hairy tongues, and Communism. Mike appeared in a later episode of "What's Happening" as Rob, owner of Rob's Place. Mike is a licensed massage therapist in New Mexico. Collector's Card 2 of 10

Claire, thank you so much for hunting down my pull-over. MJP

Opportunities

Summer Jobs
 Instead of the same old, boring kind of job this summer, try something different. Here are three great ideas.

"Carowinds" is holding auditions in Charlotte, N.C. on Saturday Jan. 18 and Sunday Jan. 19. They are casting for the following positions: Male and female singers, male dancers, a steel drum band or experienced Caribbean and/or reggae musicians, sound engineers, stage technicians and costumers. Audition times are 2 to 3 p.m. for singers, instrumentalists and technicians and from 3 to 4 p.m. for dancers. For more information call (704) 587-9011.

"Glacier National Park," located in the northwest corner of Montana, is seeking to fill more than 900 summer jobs in all segments of the hotel and hospitality areas. Jobs include a large variety of hotel positions, such as hotel front desk, room attendants, cooks, wait persons and bus drivers. Many students also participate in guest entertainment, which includes American Cabaret Theatre. Employees are needed from mid-May to early October. For details on jobs and salaries call Glacier Park, Inc., at (602) 207-2620, or write Glacier Park, Inc., 1850 North Central, Phoenix, Ariz., 85077-0924.

"Walt Disney World" is interested in hiring 140 college musicians, including violin, viola, cello, string bass, trumpet, trombone, horn, tuba, piano and saxophone players, as well as drummers and percussion players (timpani, mallets, Latin percussion). The Disney Entertainment Career Program includes the following show in which students perform: The

Disney-Grammy college Symphony Orchestra at Epcot, The All-American College Marching Show Band at Walt Disney World Resort and at Disneyland and The Disney college Marching Show Band at Disneyland Paris.

Performers selected for the 11-week program will receive a weekly salary with housing, local transportation, clinics and workshops provided. For more information call (407) 397-3220 or (714) 781-3414, or e-mail questions to bob_radock@wda.disney.com.

Exhibit Opportunities
 Artists who wish to be considered for solo shows in the Semans, Allenton or Central Carolina Bank Gallery, all located in the Durham Arts Council Building should respond to the Call for Slides by Jan. 31. Artists should submit up to 10 slides of their work, a slide script and application form. Complete information is available through the Durham Arts Council, (919) 560-2720 or the Durham Art Guild, (919) 560-2713. Panels will meet to review submissions in February or early March.

Writing Contests
 The North Carolina Writers' Network is accepting submissions for two fiction contests and a poetry contest. Deadlines are:
 Jan. 31, 1997 for the Thomas Wolfe Fiction Prize
 Feb. 28, 1997 for the Fiction Competition
 Jan. 31, 1997 for the Harpersprints Chapbook Poetry Competition

For more information send a self-addressed stamped envelope to (Name of Competition), N.C. Writers' Network, 3501 Hwy. 54 West, Studio C, Chapel Hill, N.C. 27516.

Pack

Continued from Page 3

Jason LaMotta at 134 pounds in the best matchup of the evening. Chase improved to 13-4 on the season, while LaMotta fell to 11-5.

"Eighty-five percent of the game is mental preparation; the remaining 15 percent is talent," Chase said. "Before every match I try to prepare mentally by jumping rope and listening to music."

The Heels jumped ahead 7-6 when Khalil Abdul-Malik posted a major decision over the Wolfpack's James Kocher, 20-7. State's last win of the match came at 150 when Cary, N.C., native, Joel Dramis defeated Tony Popizro 6-4 in sudden death to give the Pack a 9-7 lead.

"My overall performance has improved one-hundred percent since last season," Dramis said.

With three starters out due to injury, State sent freshmen to the mat from there on, and it showed.

Carolina's Tom Bogan beat John Grochowski, 11-5, and Jason Driggers won 6-2 over State's Dan Camparella at 167.

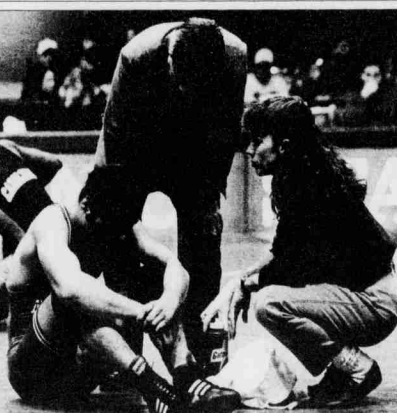
Louis Pelsung made it three in a row for the Heels with a 27-11 win over Jeff Green at 177. That gave the Heels a 17-9 lead.

Carolina put the match away at 23-9 when 190-pounder Scott Stay pinned Travis Withers at the 4:55 mark. No. two-ranked heavyweight Justin Hartz capped off the win for the Tar Heels by shutting out State freshman Billy Blunt, 7-0.

"I was well-pleased with the performance tonight," Guzzo said. "We can turn everything around when our three starters are back."

"We try to focus on technique and scoring as opposed to winning," Auble said. Winning takes care of itself.

The Wolfpack is now 2-6 overall and 0-1 in the ACC. State hosts UT-Chattanooga Friday night in Reynolds Coliseum. After that, State will host the N.C. State Duals at the Weisiger-Brown Athletics Center Saturday at 10 a.m. Admission is free.



Losses are tough -- especially to Carolina.

GLENN ABBEY/STAFF

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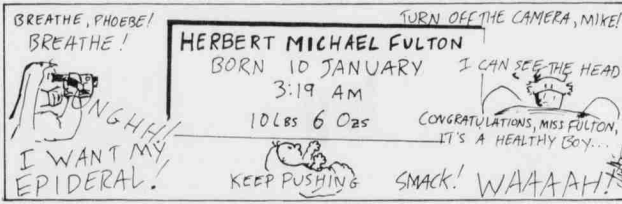
Serious

Technician

January 15, 1997

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Jojo Van Schnitzel by Charles Mangin



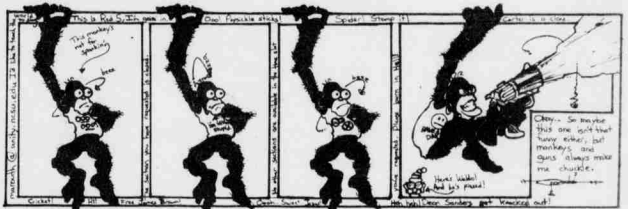
The Mysterious Cellar Dweller by Danny Cordon



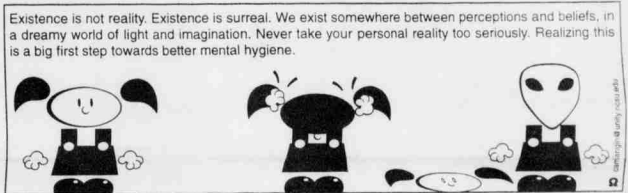
Doughboy by Marko



by Rattmouth



Mental Hygiene by Charles Mangin



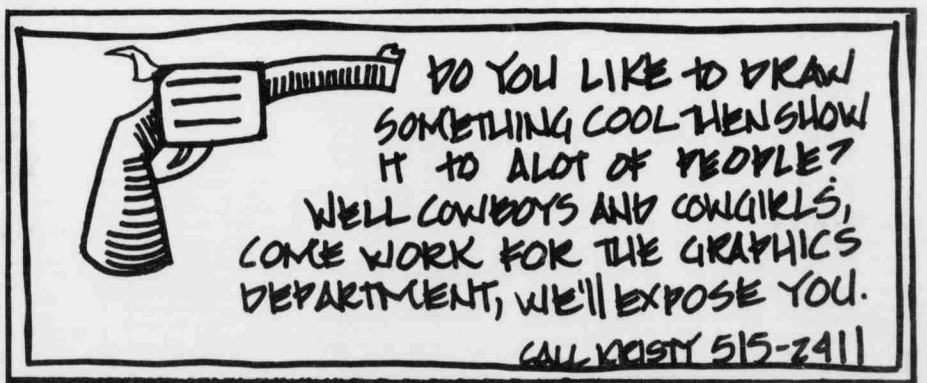
The Man by Steven F. LeBoeuf



L'Absurde by Steven F. LeBoeuf



Sticks



Opinion

A paper that is entirely the product of the student body becomes at once the official organ through which the thoughts, the activity and in fact the very life of the campus are registered... College life without its journal is a blank.
 Technician, vol. 1, no. 1, February 1, 1920

Technician

January 15, 1997

Volume 77, Number 46

Tests instead of torture

Physical Education requirement change would kill two birds with one stone.

N.C. State students picking up the dreaded red shorts and gray t-shirt required for physical education classes fear having the ill-fitting rags flung at them from the depths of a dark, smelly bin. Students taking their first P.E. course are amazed to find that gym shirts still exist from 1981 — much less that they have to wear them. NCSU is the only school in the UNC system that requires students to complete four semesters of P.E. — two of which don't even count towards graduation. This is time that could be better spent on classes in their major. After all, we didn't come here to learn how to swim laps or how to "fitness walk."

Plans for lowering the PE requirements at NCSU have been discussed before, but

nothing has seemed to stir the administration — until now.

A new proposal being considered by administrators would change the P.E. requirement. It would allow students to take a series of health and physical fitness tests which, if passed, would exempt them from wasting time on seemingly endless hours of PE.

These tests will prove that students can be healthy on their own, since they will be based on nationwide standards.

To continue to ask students to spend four semesters in PE is senseless, especially when two of them do not count towards graduation. This recommendation would let students take PE classes because they want to, not because they have to. That should always be the goal of the administration — to make the students happy.

Growth to benefit all

Engineering school's move to Centennial Campus would be beneficial to all concerned.

Centennial Campus, envisioned as the campus of the future, may soon hold the College of Engineering, if Dean Nino Masnari can complete his vision for the school's future. Masnari will soon ask N.C. State's Board of Trustees to approve the construction of a Centennial Campus building where all junior and senior level engineering classes could be held. The building will house all of the engineering departments under one roof and will let students in different engineering department interact with one another.

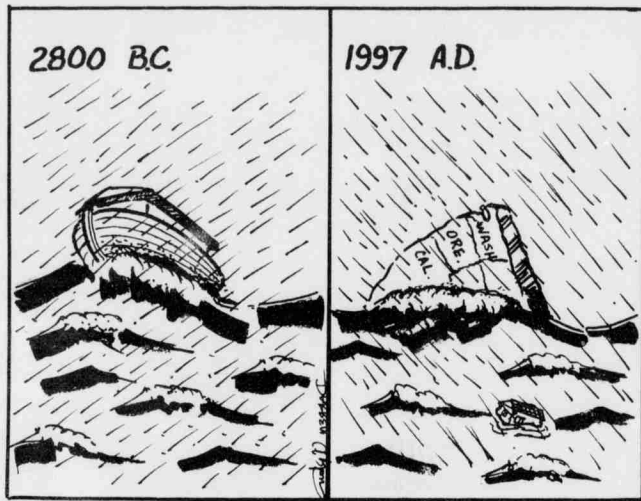
The cost of this proposal will, of course, be tremendous — currently it is estimated around several hundred million dollars. There is also the problem of how to transport students (who may not have cars) back and forth between the campuses. This could be solved by a monorail or a transportation system under

Western Boulevard — options that have been needed for years, anyway. These tasks will take 10 to 15 years to complete.

So, while other engineering schools will be mired in the status quo, NCSU will be traveling quickly into the future. Engineers work in teams to solve problems, and in this way, students will receive more true-to-life experience while still attending school. Research and laboratory facilities will be closer than they previously were and the school will be able to accommodate more students with the separate facilities.

Also, the engineering aspect of NCSU is not the only part that is continuing to grow — other colleges are, too. They will need additional space for their classes, as there is no more room for construction on the main campus.

As the College of Engineering continues to grow and attract top-rate students and professors, other students and schools will also benefit. The change is a move in the right direction towards progress and the hope for a brighter future.



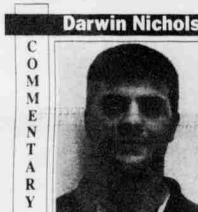
Students need less tenure, more teaching

It seems that as I go through life, I'm always trying to find bigger and better ways to do things. No matter what the task or idea may be, I'm always trying to improve how it may be accomplished.

My education is no exception. I'm constantly coming up with new ways to not study for finals or not do homework. These pursuits are selfish in that they help no one but myself. So, being the good Samaritan that I am, I have compiled a series of helpful tidbits for the next several columns in order to make this university and your education that much better.

The first such recommendation to better N.C. State is to abolish the tenure system for professors. Rumors of this sort have been swirling in what I call the "underground world of academia" during the last few years. Such suggestions have been dismissed by senior administrators as foolhardy and insane.

The men and women behind this movement are the worst kind of enemy that an administrator could have. They're insiders, doctorates and professors who make their living teaching and doing research in a university setting. Yes, the very people who have been making these suggestions to do away with the tenure system are college professors who are or have been part of the system in the past and have witnessed its shortcomings.



Darwin Nichols

COMMENTARY

If you think about this new movement, it makes perfect sense. According to statistics reported in the periodical "Academe," the average salary of professors here at NCSU is \$71,818.18. Associate professors make \$51,717.17, and assistant professors pull down a gracious \$45,757.58 on the average. Not bad — the question is are they worth it? The answer for an overwhelming majority of them is yes. Unfortunately, there are a few professors in the system that are not worth their salt. The problem of tenure happens at all universities and is not unique to NCSU at all.

I have had some wonderful professors while here at NCSU. I'm sure that everyone has. There have been exceptions, and it is blatantly obvious that these people have absolutely no business being in an academic setting. The sad fact of the matter is that after receiving

tenure, there is very little that can be done to remove those professors from their positions. Short of an act of Congress these people are set until retirement with little to fear from those almighty student evaluations or even peer criticism.

A striking example of this happens in the Department of Chemistry. How many of you poor tortured souls had to sit through CH 101 more than one time? I know for a fact that there are more than just a few of us out there. It's not that these men that teach chemistry aren't good people, I'm sure they are really nice outside of class. However, just because someone is a good person doesn't give them a license to teach. Knowing the difference between a carbon atom and an oxygen atom doesn't necessarily mean that you can convey the principles of atomic theory to a class. Let's face it, there are some people in that department that couldn't teach a firefly to make its butt glow.

Abolishing the tenure system would eliminate this problem. The good professors would stay and the bad ones would be a thing of the past. Once when I was a freshman I had this old coot of a professor for a political science elective. I don't know if he is still on campus or not, and I really don't care either. But anyway, this guy was so old and senile that every time he got up from his chair dust would fall off

his head. He was so old and tired that he taught class sitting down in his chair.

How can you learn from someone that won't even stand up to teach? The whole class was a joke and needless to say I didn't learn squat. I realize that you cannot discriminate against the Geritol generation because of age alone but something has to be done. If you're too old to stand up and teach your class, I don't care how smart you are, you do not belong here or anywhere else in a teaching capacity of any kind.

Opponents of this new methodology claim that if the tenure system was done away with the professors would be at the whim and pleasure of the student regardless of whether or not the pupil learned anything. Not true. I have had several great professors who made learning fun. They were so good at teaching their material that you didn't even realize at the time that they were learning.

Bryce Lane, in the horticulture department, is one of those people. John Huggard, in the business department, is one as well. Sure Huggard has a strict attendance policy, but his lectures make you want to come to class and learn. Lane's lectures make you want to learn about plants and how to care for them. These people make

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Grasp the opportunities presented to you

Have you ever wondered why your elders get all dewy-eyed and nostalgic for their college days? Chances are, they aren't pining for the all-night cram sessions, the pre-exam stress or the cold Pop-Tart on the way to an 8 a.m. class.

What many of us do remember fondly are the friendships formed and the academic and personal challenges met and conquered. I won't tell you that these are the best years of your life because I don't believe it (and would like to harbor the notion that my best years may yet lie ahead), but there will be few other times when you are surrounded, in close proximity, with the opportunities you have here.

You are presented with boundless opportunities to meet people from all over the world, to attend or present world-class theater, dance and musical performances and art exhibitions, and to be exposed to points of view and cultural perspectives widely divergent from your own.

Robert Fulghum developed a credo to support his contention that he learned everything he really needed to know in kindergarten. His credo, which includes references to sharing, fair play and



Evelyn Reinman

COMMENTARY

living a balanced life, makes the case pretty convincingly. So, if we learned everything in kindergarten (okay, some of us needed until third grade), what personal development outcomes are left for university students?

N.C. State's mission statement for general education sets a lofty vision, declaring that we will "provide an environment in which to become responsible and productive citizens of the world," through a "rich, rigorous and supportive environment that is characterized by maximum achievement of individual potential; quality in the teaching/learning process, both in and outside the classroom; and a diverse campus community committed to the free and open exchange of ideas." You can, and should, expect your university experience to provide both the support and the challenges necessary to stimulate the development of your keenest capabilities.

But enough about us. What about YOU? Your attitude is the most critical part of the equation for

personal success. One part of an attitude for success is the ability to find the learning opportunity in everything you do. Successful students realize that they learn both inside and outside the classroom. In the Division of Student Affairs, we see daily examples of student participation in activities which play a tremendously significant role in person growth and development.

We see students develop leadership, self-discipline and self-awareness through involvement in the Student Leadership Center, the Union Activities Board, Student Government, fraternities and sororities, the residence halls, the Center for Health Directions and ROTC. We see students develop a broader world view through participation in a Study Abroad experience in one of nearly 100 programs in over 40 countries, in a National Student Exchange experience in one of 47 participating states, Puerto Rico, Guam and the U.S. Virgin Islands. Students heighten their awareness of human diversity through organizations such as the Society of African American Culture, the Women's Center, Bisexuals, Gays, Lesbians and Allies and Student Organization for Disability

Awareness.

Students enrich their sense of civic responsibility through community service via Habitat for Humanity, Communities in Schools, the Literacy Council, campus ministries or another of the more than 60 agencies in Wake County. As a reader of Technician, you should know that the student media funded by your fees are produced and sustained by students and include opportunities for you to learn writing, photography, broadcasting, design or sales through participation in one of two student newspapers, a yearbook, a radio station, a literary magazine and a graduate student newsletter.

This said, I stress the primacy of your academic pursuits and the necessity of an appropriate balance between your outside activities and your course work. In the final analysis, your ultimate success as a person and as a citizen in the global community depends on the energy you expend on educationally purposeful pursuits both inside and outside the classroom. It's not too late to add a New Year's resolution: Pause here to reflect on what you most want from your NCSU

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Black hole

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centuries, but it was first brought to prominence in Albert Einstein's General Theory of Relativity, which explained the force of gravity through the concept of curved "spacetime." It works something like a bowling ball dropped into a giant hammock. If a large enough mass is squeezed into a small enough diameter, the "hammock" of spacetime closes around the object, forever shutting it off from the rest of the universe.

Scientists have long resisted accepting black holes as anything more than a mathematical curiosity. In recent years, however, new instruments such as the Hubble Space Telescope have produced a series of persuasive findings that black holes really exist. Even some former skeptics said that probably 95 percent of experts now accept the notion.

In fact, in a separate report Monday, an international team led by Douglas Richstone, of the University of Michigan, described the discovery of three new black holes as the initial fruits of the first black hole census, an ongoing search of nearby galaxies. Their findings, they said, add significantly to the accumulating evidence that black holes are plentiful and important players in the evolution of the cosmos, strewn across time and distance in a rich variety of sizes and types, from

Earth's home galaxy to the far reaches of the known universe.

The team's discoveries bring the total of black hole detections to 11. They used the Hubble and ground-based telescopes in Hawaii to measure the sudden acceleration of passing stars and material as they are flung, like marbles whipping around the top of a funnel and then out again, by the immense gravitational force of the black holes.

The astronomers said the initial evidence from their fledgling census of 27 nearby galaxies suggests that almost all galaxies may harbor supermassive black holes which, billions of years ago, seeded the early universe and played a key role in the violent processes by which the first galaxies formed.

If a black hole were a solid collapsed object, it would pack maybe 200 million tons into every cubic centimeter. (Earth averages about 5.5 grams per cubic centimeter.) That is, it would be 200 trillion times as dense as water. But the hole is not solid, theorists say. Its bulk is concentrated into an even smaller region — an infinitely small point at its center, known as a singularity — a point a hundred billion billion times smaller than an atomic nucleus. Here, the laws of classical physics do not apply but must yield to the field of quantum physics, which studies the weird, counterintuitive realm of the very smallest known particles and interactions.

Nichols

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learning fun. If something isn't fun then is it really worth doing?

If the already-high quality of education is to progress on this campus, there must be a fair and just way to remove those professors that cannot hold their own. The abolition of the tenure system would be a step in the right direction. It is a 180-degree turn from the norm.

But, it is our education, our future, and our money, and in my opinion, we deserve the best that NCSU can offer.

Darwin Nichols is a senior in Agricultural Business Management.

Reiman

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experience. (As they say, if you don't know where you're going, you might end up somewhere else.) Resolve to move with tenacity toward these goals.

Congratulations! You've just mapped out your journey toward student success.

Evelyn Reiman is the director of Student Development. Her column is part of a semester-long series written by NCSU faculty and staff members.

Duke University School of Engineering



The School of Engineering at Duke University is seeking well-qualified candidates for graduate studies in engineering leading to M.S. and Ph.D. degrees. The school has four departments: Biomedical Engineering, Civil & Environmental Engineering, Electrical & Computer Engineering, and Mechanical Engineering & Materials Science. Currently, students at Duke are involved in a wide range of funded research topics including: ultrasound, radar signal processing,

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That's why there shouldn't be racism.

People are people.

And that's why there is racism.

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