

THE GYMNASTICS TEAM PLACED FIRST AT THIS WEEKEND'S GOVERNOR'S CUP.



ARE YOU A VIC PERSON OR AN MVP PERSON? READ WETZEL'S COLUMN TODAY.

'WAG THE DOG' HAS AN UNCANNY RESEMBLANCE TO CURRENT EVENTS IN THE CAPITAL.

MONDAY  
February 9, 1998  
Vol. 78, No. 61

# TECHNICIAN

North Carolina State University's Student Newspaper Since 1920

Classifieds 10  
National News 2  
Opinion 7  
Sports 3  
Tech Too 5

## Regulators focus on waste site

■ N.C. State looks to fix a 30-year-old problem.

FRANCESCA CARPENTER  
Staff Writer

The Environmental Protection Agency, along with N.C. State, took test samples from a toxic waste site near Carter Finley Stadium on Feb. 6-8.

The waste consists of laboratory chemicals generated and dumped by NCSU in shallow trenches during the late '60s. The waste site is located on Research Farm One, a site originally chosen because of its remote location. Today, however, the site has become a frequently trafficked area.

The purpose of the testing is to begin stabilization and cleanup of a potentially hazardous site. Presently, according to David Rainer, director of NCSU's Environmental Health and Safety Center, there is evidence that the waste has reached ground water.

The project is taking place in order to ensure that there will be no further migration of the waste. Rainer confirms that the waste is of no danger to people in the area. He added that the tests are mainly a precaution designed to decide the best method of treatment for the area.

According to Duane Knudson, manager of Environmental Affairs, there will be a collection of samples taken from six different locations at the site. The samples will be sent to a lab for testing and the results will aid the school and EPA in establishing a cleanup, scheduled for next winter. Since the collection could potentially be dangerous, the collectors wear protective gear commonly known as "moon suits."

A public contractor has been hired to use a backhoe to collect the waste. In order to ensure public safety and because of the high potential for the waste to spread, the test samples will be covered and sealed with a cement-like material.

During 1969, the school followed all laws governing the disposal of hazardous waste. According to soil and groundwater experts at that time, the soil had a low permeability and no interaction with surface water. In 1976, the Toxic Substances Control Act required the EPA to regulate hazardous waste.

Despite the possibility of the spreading of the waste, Rainer ensures that "the waste has a natural attrition and is breaking down."

According to Knudson, waste generated by the school is now treated, incinerated and disposed of by the Environmental Affairs department on campus. However, the threat of hazardous waste is a growing issue.

In 1995-96, the United States produced 279 million tons of hazardous waste.



Lorenzo Melton II, left, takes a keen interest in the music played at the United Student Fellowship Church on Sunday morning at the African American Cultural Center.

## Helping hand

## Magic, paganism and podiums

Two out-of-the-ordinary student organizations look to add new members



Editor's Note: The following is the first in a series of three stories on unique N.C. State student organizations.

LEA DELICIO  
Assistant News Editor

The call is out for an open-minded and a non-judgmental spirit.

The Society for Paganism and Magic and the Campus Toastmasters may not have much in common, but they are two N.C. State clubs looking for members who aren't going to mock others.

### Pagan Virtues

The Society for Paganism and Magic welcomes students, faculty, staff and even those who are not affiliated with NCSU. Its only criterion is that members simply be open to different ways of thinking, said society president, Donna Nolen-Weathington.

The society includes pagans of all sorts, as well as those with various Christian beliefs.

"Nobody in the group is of the same persuasion," Nolen-Weathington said. According to Nolen-Weathington, meetings are filled with lectures, featuring topics such as meditation and tarot cards and activities such as drawing tarot cards or making dream catchers.

The group also celebrates eight rituals

throughout the year; these include a recognized Pagan New Year, which falls on Halloween. Among the other celebrations is Solstice, celebrating the spring equinox.

The society is also active in the community and even encounters controversy from time to time. Nolen-Weathington said the society recently received a letter of complaint from the Harmel Company. The society's symbol is SP-A, which Harmel felt was too close to its trademark, SPAM.

At their next meeting members and visitors will be invited to sign a petition supporting a Gypsy Diner and attempting to get an old law taken off the books.

The Gypsy Diner serves food and

See CLUBS, Page 2

## Student surveys go online

■ The results of the first Student Government online teacher evaluations will be available soon.

JOSH JUSTIN  
Assistant News Editor

Teacher evaluations given by students this fall are on their way to cyberspace.

Teacher Evaluation OnLine (TEOL) forms were distributed last November to students in order to assess classes and professors.

The Center for Urban Affairs is still pouring over the results, but the evaluations should be available early this spring.

"They're still analyzing the data, but they'll be ready in time for registration," said Jenny Chang, chief of operations for Student Government.

The packets were sent to students in every regular non-laboratory undergraduate and graduate course taught on campus, according to the TEOL report, which was distributed at a Faculty Senate meeting Tuesday afternoon. Laboratory sections, special non-classroom sections and sections without a specific instructor assigned to them were excluded from the evaluations.

Jenny Chang downplayed the idea that the evaluation responses might be used as a basis of comparison among different N.C. State colleges.

"That's the wrong mentality," she said. "It was only meant to compare sections of a course. You can't get a general trend."

Urban Affairs received packets with completed evaluations from 745 sections, a response rate of 23 percent, the TEOL report stated.

On average, 25 students responded per section, with as few as one student responding in some cases. The largest return from a single section, a Principles of Economics class, returned 232 evaluations. The enrollment of that class was 397, the report noted. In the typical responding class, 74 percent of enrolled students completed an evaluation.

TEOL is a fledgling operation, but because of the high responses last fall, it is apparent that students value the Student Government initiative.

"It really came into fruition last semester," Chang said, about the recent history of TEOL. "It started with John O'Quinn, then with Robert Zimmer, [both former student body presidents at NCSU] and of course, Chad Myers this year."

According to Chang, the student-run project got approval by the Faculty Senate on Nov. 4, 1997.

The Center for Urban Affairs and Community Services completes a number of survey pre-tests and pilot tests, in addition to administering several major survey projects each year.

## Students decry Technician, other media departments

■ NCSU students used a forum setting to comment on campus media offerings.

PHILIP REESE  
News Editor

Technician took a tongue-lashing of sorts Thursday night as students took advantage of an open forum sponsored by N.C. State's Student Media Authority (SMA).

About 30 students attended the forum, which featured three student speakers. All three focused on Technician's perceived shortcomings.

Nate Johnson, a senior in

computer science, got the ball rolling with pointed attacks against Technician's news coverage. His primary complaint was that campus events do not receive enough coverage within Technician.

"I think Technician's got some work," said Johnson. "There is not nearly enough coverage of campus events."

Johnson also accused Technician of bias and a lack of professionalism in its stories, citing perceived instances of "yellow journalistic editorializing."

Johnson went on to say that many of Technician's editorials are "less than relevant."

Andrew Payne, a sophomore in

design, also faulted Technician for what he called non-"student-oriented" coverage. He said large events like the campus before NCSU's basketball game against UNC-Chapel Hill and student government expenditures are two examples of areas where Technician needs to strengthen its coverage.

Akira Morita, the secretary of NCSU's Union Activities Board, was quick to point out that his remarks about Technician and other student media were meant to be constructive.

"I'm not here to criticize," he said. "I want to say that there are a lot of opportunities for student media to pick up."

Morita suggested that student media work more closely with NCSU student organizations. He said many student organizations do not know how to generate media coverage and, to remedy that problem, advised the media to provide organizations with information on how to get their events publicized.

After the three scheduled speakers had said their piece, SMA Chairman Keith Crawford opened the floor up to questions and comments.

One forum participant argued that the photos that appear in campus media often do not accurately portray the ethnic makeup of the

university.

"If we are promoting diversity, we want to promote diversity at all levels," the student said.

In response, a member of the SMA said photographers do not think about race or gender when they are out taking pictures.

"It's more of an art form," she said. "You don't go out and say 'what is this person like.'"

Other forum topics discussed included strategies for convincing students to have their pictures taken in Agromeck, NCSU's official yearbook, and marketing strategies for Windhover, an award-winning NCSU literary magazine.

## BF Goodrich research prizes awarded

The BF Goodrich Collegiate Inventors Program is a national competition introduced in 1990 which recognizes outstanding inventions, discoveries and research by full-time graduate and undergraduate students.

This prestigious competition recognizes the working relationship between a student and his or her advisor, who are involved in projects leading to inventions that can be patented.

Its three "All Collegiate" awards carry prizes of \$7,500 each to students and \$2,500 to their advisors. BF Goodrich, a chemical and aerospace company, sponsors this program through grants from the BF Goodrich Foundation.

The BF Goodrich Company has provided over \$150,000 each year to create and maintain this national competition. Applications must be received by Tues., June 2, 1998. Late entries or incomplete submissions will not be accepted. More information is available at [www.invent.org](http://www.invent.org).

## Equity award nominations being taken

Nominations are being sought for the N.C. State Equity for Women Award, presented by the Council on the Status of Women.

The award, established in 1990, is given in recognition of service (voluntary or job-related) and outstanding leadership in establishing women's equity.

The recipient should be an NCSU employee or former employee. Nominations are solicited from all members of the campus community: faculty, staff and students.

Nomination forms may be requested from Carolyn H. Maidon (515-5524, fax: 515-5836, e-mail: [carol\\_maidon@ncsu.edu](mailto:carol_maidon@ncsu.edu), or web site: [http://www2.ncsu.edu/ncsu/provost/info/governance/other\\_committees/Council\\_Status\\_Women/](http://www2.ncsu.edu/ncsu/provost/info/governance/other_committees/Council_Status_Women/)).

Nominations are due by March 2 to Maidon at Campus Box 7801 or by fax or e-mail.

## Furniture center seeks research proposals

The Furniture Manufacturing and Management Center (in the College of Engineering) is seeking research proposals from faculty at N.C. State and other North Carolina universities.

Through industry sponsorship, the Furniture Manufacturing and Management Center supports research and technology transfer projects with the potential to improve the competitiveness of furniture manufacturers.

Proposals will be accepted through April 15, with award notifications in late May. Project funding will cover the period of July 1, 1998 through June 30, 1999.

For information, contact Dr. C. Thomas Culbreth, director, Furniture Manufacturing and Management Center, Campus Box 7906. Or, to receive information through e-mail, address to [culbreth@eos.ncsu.edu](mailto:culbreth@eos.ncsu.edu) or call 515-3335.

## OUTSIDE

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## Monday IN BRIEF



# UC-Berkeley researchers find genes affecting nerve cells

National



NEWS

■ The discovery holds major implications for the mapping of the human genome.

LINDA LOU

Daily, California (U. California/Berkeley)

**BERKELEY, Calif.** — Scientists at UC-Berkeley and UC-San Francisco have discovered two genes that are involved in controlling the direction of cell growth in the nervous system.

Dubbed the roundabout gene and the commissureless gene, these genes were found to control the movement of nerve cells in the body.

Corey Goodman, a professor of neurobiology at UC-Berkeley and part of the Howard Hughes Medical Institute, said that the research team wanted to figure out which genes control the brain.

"Brain wiring is what we are trying to understand," Goodman said. "We are trying to figure out how the brain is wired — it has trillions of connections. Finding the genes has implications for learning and memory, too."

Like the rest of the human body, the nervous system is symmetrical, Goodman said. There is a midline that divides our body into two parts, a right side and a left side; some nerve cells only stay on one side of the line, while others cross over, he added.

According to Goodman, when a cell from the right half crosses to the left, a cell from the left half then crosses to the right. But the cells that cross do not return to the other side, he said.

During the 1980s, Goodman said, scientists in the neurobiology field believed that nerve cells grew in a certain direction because of

individual mechanisms in the body that activate and inactivate the genes. In order to find out the reason for this pattern of movement, Goodman and his team experimented with the nervous systems of *Drosophila* fruit flies.

"We mutated all of the genes (in the fruit flies), knocked them all out and found out which genes control the brain," he said.

Fruit flies also have the basic assembly of our nervous systems, Goodman added.

"The analogy would be taking apart an older, simpler computer in order to understand a complex computer," he said.

The scientists discovered that the commissureless gene caused nerve cells to grow to the midline but would not allow them to cross it. As a result, two separate nervous systems grew in the fruit flies, with

the midline dividing it.

The roundabout gene caused every cell to cross the midline and allowed the cells to move back and forth freely. Some cells were even able to move in a circular path, which helped the scientists name the gene.

Goodman said that a receptor makes cells find the midline either repulsive or attractive. The commissureless gene regulates the roundabout gene.

Marc Tessier-Lavigne, a professor of anatomy at UC-San Francisco, said his team is trying to find out how the roundabout gene functions in rats.

"We worked with Corey to identify homologs of the roundabout gene in rats," Tessier-Lavigne said. "We found two rat homologs — both are expressed in cells analogous to *Drosophila*."

Tessier-Lavigne added that his team

has not been able to show that the roundabout gene functions exactly the same as in rats and fruit flies, but that they have found many similarities.

"We haven't shown that they do exactly the same thing, but up front they are already similar," he said. "It won't take a great leap of faith."

Tessier-Lavigne said the scientists are hoping that the roundabout gene performs the same functions in both fruit flies, which are invertebrates, and mice, which are vertebrates. Currently, scientists are looking into whether the roundabout gene can function the same in humans.

In the future, Goodman wants to selectively block or unblock these genes to possibly fix spinal cord and brain injuries. Currently, once the brain or the spinal cord is damaged, the nerve cells do not regrow.

Clarification:

The headline above Friday's story "Students shoot at peers" was potentially misleading. As noted in the story, the two students have been charged, but not yet convicted of possession of a BB gun and a crossbow. Also, as noted in the story, reports of the students shooting the BB gun were taken from a Public Safety crime report and have yet to be proven beyond a reasonable doubt. Technician regrets any inconvenience the headline may have caused.

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## Clubs

Continued from Page 1

alcohol and allows visitors to have their palms read. A short while ago, the Gypsy Diner let its liquor license expire. However, when the ALE came to speak to the owners, officials first fined the owners and palm readers under a 51-year-old law that prohibits, among other things, palm reading.

Nolen-Weathington said the diner had a license that allowed them to employ palm readings. Though these licenses are not supposed to be sold in Wake County, the diner had been sold one by Wake County officials anyway.

The petition will request that this law, which Nolen-Weathington said is not relevant to the times, be taken off the books.

Nolen-Weathington founded the society with some friends who, she says, were "beginning pagans."

"We were very lonely," Nolen-Weathington said.

They knew others must be out there and wanted to find them.

The society has had as many as 20 people at a meeting and as few as three or four. While the society is an NCSU organization, the majority of its members are not NCSU students, Nolen-Weathington said.

Anyone with an open mind is welcome to attend meetings. The society meets Wednesdays at 8:00 in Tompkins G118. People interested in the Society for Paganism and Magic are also welcome to contact Donna Nolen-Weathington at 839-0640.

### Breaking the Ice

The Campus Toastmasters was formed for NCSU students, faculty and staff interested in improving their communication and leadership skills.

"This is a safe forum in which to express yourself," said Toastmasters president, LaTondra Murray.

Members come to meetings to work on speaking skills. Murray said members are given a basic

manual when they join that includes 10 exercises, each focusing on different aspects of public speaking.

The first exercise, called the "icebreaker," involves getting up and speaking about oneself. This, Murray feels, is the easiest subject to talk about. She said other exercises focus on aspects of speaking such as gestures and vocal variety. Members are invited to speak on any subject they choose.

According to Murray, once the basic manual is completed, members are given their CTM (Competent Toastmaster) certification. They can then move into more advanced manuals.

Toastmaster members come from all segments of the NCSU community. They range from freshman to long-standing faculty members, Murray said.

Murray feels there is an opportunity for members to learn something at every meeting. Everyone on campus is welcome to come and visit meetings without any pressure to speak.

The Campus Toastmasters meet on Fridays from 12:10 p.m. to 1:00 p.m.

Technician Classifieds Work!

# Student Painting Companies 101

## Are they really all the same?

"1998 marks my 13th year in the student painting industry. I started as a crew painter in 1985 and now I own my own business. There are at least 10 good-sized student painting companies throughout the country. Almost all of them are "student franchises"...operations *independently* run by a student with little or no business experience. My business is not. If you are interested in this industry as a summer job or career, I hope you find this ad helpful in determining which environment is best for you."

Steve Noble—President, Collegiate House Painters, Inc.

	FRANCHISE MANAGER	COLLEGIATE MANAGER	FRANCHISE CREW PAINTER	COLLEGIATE CREW PAINTER	
<b>PROS</b>	<ul style="list-style-type: none"> <li>Absolute responsibility</li> <li>High earnings potential</li> <li>Independence</li> <li>Flexible schedule</li> <li>Wide-ranging business experience</li> <li>Very Entrepreneurial</li> <li>Good resume builder</li> <li>Work with other students</li> </ul>	<ul style="list-style-type: none"> <li>Comfortable level of responsibility</li> <li>Guaranteed wages &amp; bonuses</li> <li>40 hr/wk for the entire summer</li> <li>Extensive, on-going training</li> <li>Trailer/equipment provided</li> <li>3-day weekends (weather permitting)</li> </ul>	<ul style="list-style-type: none"> <li>On-site, daily assistance</li> <li>No Spring/Fall commitment</li> <li>No risk</li> <li>Experienced, professional employer</li> <li>Good resume builder</li> <li>All jobs lined up by full-time staff</li> <li>Manage other students</li> </ul>	<ul style="list-style-type: none"> <li>Employed by fellow student</li> <li>Production incentives</li> <li>Relaxed uniform code</li> <li>Flexible hours</li> <li>Good base wage</li> </ul>	<ul style="list-style-type: none"> <li>Full-time <b>every</b> week, all summer long</li> <li>Guaranteed wages &amp; bonuses</li> <li>Work with other students</li> <li>Extensive, on-going training</li> <li>Best equipment available</li> <li>Employed by year-round business</li> </ul>
<b>CONS</b>	<ul style="list-style-type: none"> <li>Isolation</li> <li>Could make a <b>lot less</b> than expected or even <b>lose money</b></li> <li>Minimal training</li> <li>No daily on-site assistance</li> <li>High pressure</li> <li>High risk</li> <li>Need vehicle which can carry your ladders &amp; equipment</li> </ul>	<ul style="list-style-type: none"> <li>Earnings hurt by employee turnover</li> <li>Spring &amp; Fall responsibilities</li> <li>Purchase your own equipment</li> <li>Line up your own jobs</li> <li>Very time consuming</li> </ul>	<ul style="list-style-type: none"> <li>Not totally independent</li> <li>Daily supervision</li> <li>Need a hitch on your car</li> <li>Early mornings</li> <li>Strict uniform codes</li> <li>No smoking</li> </ul>	<ul style="list-style-type: none"> <li>Might not work 40 hr/wk</li> <li>Could make minimum wage</li> <li>Could run out of work</li> <li>Minimal training</li> <li>Minimal equipment</li> <li>No guaranteed summer earnings</li> <li>Student employer</li> </ul>	<ul style="list-style-type: none"> <li>Daily supervision</li> <li>Early mornings</li> <li>Strict uniform codes</li> <li>No smoking</li> </ul>

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**State Stat:**  
The Wolfpack gymnasts won the first and only ACC Gymnastics Championship (1984).

# Sports

Monday, February 9, 1998

Vol. 78 No. 61

Technician

Page 3



## Final results:

### Nordic Skiing

<b>Women's 15 k</b>	
1. Olga Danilova, Russia	46:55.04
2. Larissa Lazutina, Russia	47:01.00
3. Anita Moen-Guidon, Norway	47:52.06

### Snowboarding

<b>Men's giant slalom</b>	
1. Ross Rebagliati, Canada	2:03.96
2. Thomas Prugger, Italy	2:03.98
3. Ueli Kestenholz, Switzerland	2:04.08

### Speed Skiing

<b>Men's 5000m</b>	
1. Gianni Romme, Netherlands	6:22.20
2. Rintje Ritsma, Netherlands	6:28.24
3. Bart Veldkamp, Belgium	6:28.31

### Ice Hockey

<b>Women's</b>	
Finland 6, Sweden 0	
Canada 13, Japan 0	
USA 5, China 0	

<b>Men's</b>	
Austria 5, Kazakhstan 5	
Slovakia 4, Italy 3	

## Today's Schedule:

### Ice Hockey

<b>Men's</b>	
Japan vs. France	
Germany vs. Belarus	

<b>Women's</b>	
Finland vs. Japan	
USA vs. Sweden	
Canada vs. China	

### Luge

Men's Singles

### Speed Skating

Men's 500m

### Alpine Skiing

Men's combined, slalom

### Nordic Skiing

Men's 30K Classic

### Snowboarding

Women's giant slalom

Check page 4 for the medal standings.

# Pack wins - North Carolina loses

■ Despite a first-place finish from N.C. State, the state of North Carolina falls to Maryland in the Governor's Cup competition.

JAMES CURLE  
Assistant Sports Editor

The Wolfpack held up its end of the bargain. The Pack took first place overall in this year's Governor's Cup, a meet pitting teams from the state of Maryland — Towson State and the University of Maryland — against the state of North Carolina —

N.C. State and UNC-Chapel Hill — in a head-to-head competition between the states.

But unfortunately for the Old North State, UNC fell through on their end of things and Maryland took home the cup for the second straight year.

The scores were far tighter this year than last, however, as State just barely edged out the Terrapins by .425 of a point, 192.125 to 191.700. Towson State followed up their in-state compatriots with a 191.675 and the Tar Heels rounded out the group with a 190.650.

Perhaps the biggest turnaround from last year's meet

for the Pack was its performance on the uneven bars. The event was the downfall for the team at last year's competition, as gymnast alter gymnast fell from the apparatus. State never regained composure from that point on, and finished the meet disappointingly in fourth place.

That would not be the case at this meet, however — the Pack made sure of it. Lauren Mazzurco started the fourth and final rotation strong for the Pack, scoring a 9.625. After Co-Captain Ashley Hultsell suffered a fall, the team rallied for three straight 9.700 scores from senior Stephanie Wall, Amy Langendorf and Jen Sommer. Freshman Kara Charles put the icing on the cake with a 9.775, which won her first-place honors for the event.

"We worked so hard on team bars this week," Coach Mark Stevenson said. "On Thursday, we hit bars in practice just exactly like we hit them today, and it paid off. If it wouldn't have been for our bars performance today, we probably would have finished third in the meet today."

The team's first-place finish was also significant as it marked the team's first road win of the year. State dropped their first away meet at Penn State last month, posting a tough 187.625 score in a meet where the judges were anything but kind. In Saturday's match, the judges again were on the stingy side of things, but instead of buckling under the pressure, the Pack responded by posting its second-highest score of the season so far.

"After getting through Penn State, you just have to learn to ignore the noise," Hultsell said. "You can do a great routine, but you can't control anything that they're going to see or that they're going to judge you on. We just realized that, and didn't pay any attention to what anybody was getting scored on."

The strategy paid off, and the Pack improved its mark to 4-2 on the season. Going into the Hearts Invitational this Friday at home, the performance that State put up at the Governor's Cup will only serve to keep the momentum going.

"I think it really is a booster for the confidence, especially after Georgia last weekend," Wall said. "Coming up here and doing a really good job, it just gives you a really good momentum going into the rest of the season."



The Wolfpack gymnasts celebrate their win at this weekend's Governor's Cup in Maryland. They posted their second-highest score of the season, a 192.125, to post their second, third and fourth wins.

# Duke wins an ugly one over State

■ The Blue Devils bounce back from their loss against UNC to win the annual showing match at Reynolds.

JAMES CURLE  
Assistant Sports Editor

Perhaps it was a bad omen that one of the officials suiting up Sunday afternoon was named "Duke" Edsall. Duke and N.C. State fought each other tooth and nail Sunday afternoon in yet another physical ACC foul fest. Duke emerged the victor of the dogfight, winning 65-49.

The physicality of the game showed on the stat sheets following the game. The Pack picked up 25 fouls for the contest, and added to Duke's 15, a total of 40 fouls were whistled throughout the afternoon.

The Wolfpack had trouble against the Blue Devils' defense all night long, as Wojciechowski relentlessly hounded Miller at the perimeter while Roshown McLeod and Shane Battier prevented much of the penetration attempted by the Pack.

The big story for the Blue Devils was the play of McLeod.

He was simply on fire from the field, hitting on 12 of his 18 shots, including one three-pointer.

During one stretch of the game, running from the 8:14 mark in the first half to the 17:33 point in period number two, McLeod was responsible for every point scored by the Blue Devils.

His run outscored the Pack as a team 14-7, and save for a few scattered baskets from Trajan Langdon and Mike Chappell, he accounted for the entirety of Duke's offense for a span of nearly 20 minutes.

"I just tried to move a lot without the ball," McLeod said, "and call for the ball when I felt I was open. I just tried to be strong in my moves."

State was forced into a one-dimensional offense during the majority of the game, consisting primarily of C.C. Harrison and Kenny Inge.

The duo accounted for all of the team's points during the first half, and it wasn't until the 16:45 mark in the second period that another player, Ishua Benjamin, put some points on the board.

State was able to keep things close until the midway point of the first half, when the score was tied at 13-11 with 11:19 on the clock. Chappell then kicked started an 18-3 run from which the Pack never recovered.

McLeod led all Duke scorers with 27 points, followed by Langdon with 17. Inge finished with 14 for the Pack behind Harrison's 18.

The Pack fell to 12-10 overall, with a 3-8 conference mark. Duke picked up its 10th conference win to stand at 10-1 in the ACC to go along with a 21-2 overall record.

## Floor generals dual

■ Wojo and Miller battled it out in the back court on Sunday.

K. GAFFNEY  
Sports Editor

Call it the old versus the new. Call it the passing of the guard.

They'll just call it another game.

Sunday's match-up featured the pairing of Duke's Steve Wojciechowski, who has spent the past three-and-a-half years making a name for himself as the Research Triangle's premier point guard, and Archie Miller, a 5-foot-9 freshman who has quickly made a name for himself as the likely heir to that title.

In the last outing against the Blue Devils, Wojciechowski took advantage of the match-up. Miller played just 16 minutes, sinking just one of six shots, and added three turnovers, one foul, no assists and no steals.

In the first match-up, though, Miller had sophomore guard Justin Gainey to pass off the rock to. But a back



Archie Miller and Steve Wojciechowski battle for the ball in Sunday's game.

See DUK, Page 4



OLYMPIC GRAPHICS COURTESY OF IOC

## Wolfpack NOTES



## Baseball downs Campbell, plays today at 3 p.m.

The Wolfpack baseball team routed Campbell University at Taylor Field on Friday, downing the Camels 15-1 to improve to 2-2 on the season.

Left-fielder Adrean Acevedo led the offensive onslaught, going 3-4 with two homers and five RBIs. N.C. State sent 13 batters to the plate in the decisive nine-run second inning that propelled the Pack to a blowout.

Starting pitcher Bubba Scarce picked up his first win of the season, giving up only one run on two hits in five innings. Chris Carter wound up with his first save of the season, not allowing any runs on two hits over the last four innings.

Shortstop Josh Ballard went 4-5 from the plate, scoring one run. Jimmy Slaughter also chipped in three runs, and Brian Ward recorded two RBIs on three hits.

The rematch, scheduled for Saturday afternoon, was cancelled due to inclement weather. The game will take place at Doak Field at 3 p.m. today.

## Men's, women's swimming and diving get wins

Both the men and women picked up another win on Sunday, as the N.C. State swimming and diving teams defeated UNC-Wilmington in Raleigh.

The men posted a scored of 150-88, behind 11 first-place finishes.

Kevin Cutts finished first in both the 1-meter and 3-meter diving competitions, while State won both relays.

Freestyler Phil Hardin won the 100-meter butterfly with a time of 52.11.

The women picked up a win in their final meet before heading to Charlottesville, Va. for the ACC Championships. State beat the SeaHawks, 143-93. UNC-W's Adrienne Sutton took first in the 220-meter IM and the 100-meter breaststroke. Marcia McKeel won both diving events for the Wolfpack. The two teams split the relay events. N.C. State won the 200-meter medley relay with a time of 1:46:90. UNC-W won the 200-meter freestyle relay.

## Wolfpack track picks up individual honors

Thirteen Wolfpack athletes turned in top 10 performances in individual events this past week as N.C. State's indoor track and field team competed in the Patriot Games hosted by George Mason University in Fairfax, Va.

Sherlane Armstrong finished 10th in the women's long jump and followed up the performance with a second-place finish in the triple jump.

In the women's weight throw, two State athletes placed in the top 10. Anitra Henry finished fifth overall, with a mark of 15.32 meters, while Tiffany Heath took sixth, throwing for a distance of 14.6 meters.

On the men's side, the Pack fared well in distance events. Chris Pluchos finished second overall in the men's 3,000-meter run, complemented by sophomore Mike Fitzula's eighth-place finish.

In the men's mile, Aaron Keller and Scott Wirgan, both freshmen, finished sixth and eighth, respectively.

## Baseball

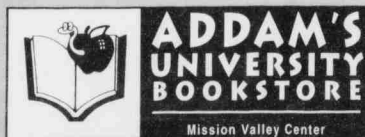
N.C. State will take on Campbell at 3 p.m. today at Doak Field.

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# Tech Too

Monday, February 9, 1998

Vol. 78 No. 61

Technician

Page 5

## Movie parallels life

■ "Wag the Dog" takes a look into the White House that might be a little too realistic.

ROBERT GREENE  
Staff Writer

So we're having another "problem" with of Saddam Hussein. Do you think you know the whole story? Remember that little White House sex scandal? You probably wouldn't if we suddenly went to war again with Iraq. Impeachment smeechment. But what if the foreign conflict was a hoax—a major manipulation set up by the President's people to divert attention from his very domestic problems?

These are the basic questions asked and answered by the new film "Wag the Dog." Robert DeNiro plays the ultimate Mr. Fixit spin-doctor, Conrad Brean, who enlists big time Hollywood producer Stanley Motss (Dustin Hoffman) to rescue the President from scandal hell less than a week before election day. The two of them, plus Motss' crisis entourage and top White House official Winifred Ames (Anne Heche), orchestrate a fake war with

Albania to deflect the nation's attention from a sex scandal involving the President and an under-age girl.

The unbelievable timeliness of the story, coupled with the scathing, witty and sharp script of Hilary Henkin and David Mamet and strong performances by an all-star cast make "Wag the Dog" one of the tightest political satires in recent memory.

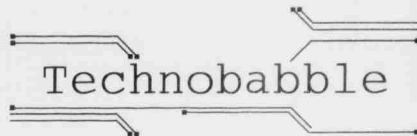
Intelligent, but by no means preachy, the film strides and cavorts, cleverly deconstructing the notions of truth and public manipulation in both the political and entertainment arenas. The war created by Motss and his team comes complete with merchandise—a victim (Kirsten Dunst), a hero (Woody Harrelson), and a patriotic song (done by Willie Nelson). But as the artifice builds up, Brean and Motss are forced into a parade of problem-solving sessions that compound upon themselves until the whole thing collapses.

DeNiro is quietly brilliant, providing the low-key Brean with that menacing calmness and depth that DeNiro has come to master. Hoffman is also great; the attention-seeking, grand-scale



COURTESY OF NEW LINE CINEMA  
Robert DeNiro stars as a political strategist, Conrad Brean, in *Wag the Dog*.

See **WAG**, Page 6 ▶



■ The geek gets technical and uses even more acronyms than usual!

CHARLES@SMA.SCA.NCSU.EDU  
Staff Geek

I've written a lot lately about some of the differences between computers running Macintosh and Windows operating systems, but today, I thought I might get a little technical (hopefully not too much so) about operating systems in general.

An OS, by one definition, is a collection of routines or instructions that allows for the sequencing and processing of other programs, allocates resources, controls input and output, and usually provides a user interface. It's a mouthful, but what did you expect?

If you prefer an analogy, think of a computer as a corporation. Its employees are the programs that run through it, sometimes millions of times a second. The CEO, or, better yet, the board of directors, is the CPU (Central Processing Unit). Next week, I'll write a little about the different kinds of CPUs and what makes them tick, but this week, I'll try and stick to the OS. I will say this, though. There are basically two kinds of CPUs: RISC, which recent Macintoshes, a fair number of mainframes and most high-end graphic workstations use; and CISC, which is mostly made up of the INTEL family of x86 processors, like the ones in most Windows machines. More on exactly what that all means next week.

Back to my analogy. Every corporation has to have a public relations department, right? That's the OS. It talks directly to the

consumer — the user, you — and shows off the products of the corporation's labor — the results of the programs that the computer is running.

The very first computers, the ones that filled whole rooms, didn't have operating systems. Instead they had operators — programmers flipping switches and punching buttons for every calculation the computer made. Eventually, the operators got fed up with feeding the computer instructions by hand, so someone devised a self-running program that, once loaded, automated the process of reading punch-cards or, later, magnetic tapes.

As the personal computer industry came into its own, it seemed like everybody wanted to get into the act. Every manufacturer that came out with a personal computer also had to develop the proprietary operating system for that computer. Apple, the pioneers of the personal computer, had its own DOS and, later, PRODOS. Atari had its own OS. Amiga had its own OS, along with some of the most loyal, die-hard, fanatical users I have ever met. But the DOS you've most likely heard the most about is the one IBM licensed when it decided to come out with a line of personal computers: Bill Gates' own Microsoft DOS.

MS DOS was basically a rewritten version of QDOS (a Quick and Dirty Operating System) which, in turn, was based on CPM (a Control Program for Microcomputers). Incidentally, CPM was IBM's first choice, but Gates' fledgling Microsoft was more willing to make a licensing deal. Microsoft's

See **TECHNO**, Page 9 ▶

## FRONTIERS

### Tests can stop the deadly killer radon

■ High levels of radon can lead to lung cancer, but a simple \$20 test may be enough to save your life.

LINDSEY GREENE  
Staff Writer

Thousands of Americans across the country are exposed to an invisible and odorless enemy that can increase their risk of developing lung cancer. In fact, the Surgeon General called this

deadly enemy the second leading cause of lung cancer in the United States. This invader, in the form of an undetectable gas called radon, can sneak into the homes and buildings we live and work in to build up and cause serious problems. If residents smoke cigarettes, the risks are especially high.

Naturally occurring radioactive gas forms from the natural breakdown or radioactive decay of uranium. Most soils contain

varying amounts of uranium. Its presence in the soil, even in geographic regions known to have particularly high radon levels, isn't the problem. When the gas sneaks in and accumulates in a home or building through the cracks in foundations, slabs or floors and begins to accumulate is when the problems begin. Well water could be another source for which radon can cause damage.

The alpha radiation emitted by radon is the exact same alpha

radiation emitted by other alpha sources, like plutonium. For radon to leak into a building there must be significant quantities of the gas emitted by the soil that the building sits on. Also, the construction, design and physics of the building must permit radon to get in and accumulate. Since radon is constantly escaping from the soil, it's usually present in the air.

See **RADON**, Page 6 ▶

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**Wag**

Continued from Page 5

manipulator that is Stanley Motts is the drive behind the movie. Seeing these two legends spar with each other might be reason enough to go see the film.

Heche is convincing as the ambitious, if confused Ames. Dennis Leary brings his typical sharpness and energy to the role of the Fad King. Motts' man with his finger on the country's pop culture pulse. And the peripheral performances of Harrelson, Dunst, Craig T. Nelson and others give the picture volume.

If there is one thing that prevents this film from instant-classic status is that the theme can come off a little contrived and the jokes get a little tired. But mostly these things work.

All in all, "Wag the Dog" is a nice swipe at the mechanics of what makes America work—image. And should we happen to attack Iraq in the next few weeks, you may want to keep an eye out for Conrad Brean.

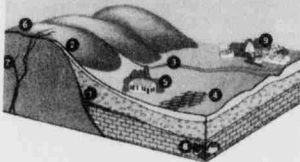
**Radon**

Continued from Page 5

**Evaluating radon potential**

By knowing something about the geology and soils of the area, scientists can evaluate the radon potential for the rocks and soils of housing sites or areas of interest. These factors can increase the probability that an area will have above-average levels of radon.

1. Unconsolidated rocks occur in the area.
2. Highly permeable soils are present.
3. Soils are well-drained or dry most of the time.
4. Gouls form deep cracks during dry times of this year.
5. The site is located on a hill or slope.
6. The soil is thin and bedrock is close to its surface.
7. Underlying rocks are fractured.
8. The underlying rock contains limestone caverns.
9. High levels of indoor radon have been reported in the county or neighborhood.



Under certain circumstances, the concentration of radon in a building can be significantly over the normal outdoor level. Most buildings have a confined airspace with limited air movement and only a slow exchange with outside air. Since no immediate symptoms alert the presence of radon, testers are the only way to know the levels in a building.

The Environmental Protection Agency, Surgeon General, American Lung Association, American Medical Association and National Safety Council all advise testing for your home.

Bob Leker, radon coordinator in the North Carolina Cooperative Extension Service at N.C. State says a simple kit that costs \$10-\$20 can tell if radon levels are at acceptable levels.

"If you have elevated levels of radon, you will have more time to fix the problem. There are several mitigating actions you can take to ensure your home is safe," Leker said.

Radon levels are measured in units called picocuries per liter (pCi/L). The average amount present in any home is 1 pCi/L. If levels reach as high as 30 pCi/L, the residents have the same risk of developing lung cancer as a person who smokes two packs of cigarettes per day.

Certain construction techniques constrict radon entry. Use of continuous slab poured over a plastic membrane is one method. However, the membrane must be secured and must not be punctured by rocks, roots or pipes. Homes should be tested periodically for radon because settling and small earth shifts may eventually cause cracks in the foundation and slab, allowing for radon entry routes. Even small cracks can permit a relatively large amount of radon to enter.

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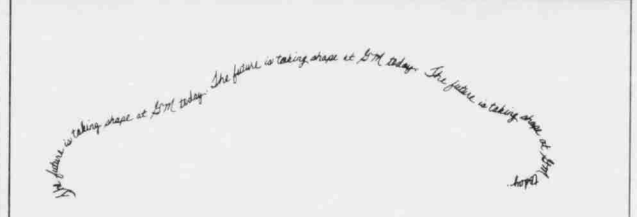
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## Editorials

### Job hunt help

■ Career center eases the interview blues.

There is nothing more embarrassing than to be in a serious conversation while twirling spaghetti on your fork, only to twirl it into your lap and possibly the face of the person across from you. It's definitely not something you want to happen when you are trying to find a job. To help solve these minor mishaps that occur every now and again when we sit down at a table, the University Career Center, in conjunction with the College of Agriculture and Life Sciences and Nabisco, set out to help us poor college kids learn some nice table manners.

Most students who participated were those concerned with dinner interviews. Participants were taught when to use which pieces of silverware and what types of food to stay away from when on a job dinner interview. Not only were participants taught what was proper etiquette but also what to expect when on an interview that consisted of a dining experience. Participants were taught when to use a certain piece of silverware, how to receive cues from the waiter, as in what to do and how to properly excuse oneself from the dinner table. The NCSU Career Center focuses on students' abilities to impress and please job interviewers. It offers an in-house library that helps students to determine which job correlates to their attitude and skills. Students can find materials that will show them which careers are most in

demand and those dying out. When choosing a career, pay rate is also an important factor. One can view what the going pay rate is for his or her career choice. Also available is a guide that will help students determine where they can obtain jobs with the degree they're earning. The first step in finding a job is creating a perfect resume. Career center assistants will help students with their resumes, and show students how to properly prepare a resume. There is a lot more to developing a resume than writing down past and present employers. Once a student has developed a resume, the career center will hold student resumes for prospective employers to look at. This allows them to help you find a job. When an employer needs help, they will contact the career center, and they will give them your resume. This helps students who may not be aware of certain agencies that are in need of help.

The career center also offers an online resume service. Students can receive online assistance when filling out their resumes. This is useful to those who may not have enough time to stop by the career center. Internship positions are also available in the career center. Each major has a listing of available intern positions that relate to your area of study. When in doubt about your future, stop by the career center and let them help you. After all, that's what they're here for. You can also check them out online at <http://www.fis.ncsu.edu/career/>



### Wearing jeans means nothing

LARRY MARSHBURNE  
Staff Columnist

Well, this is one of those columns where I offend some people. More importantly, this is the column where I offend some people who didn't think I could be their friend and believe what I believe. Nevertheless, there are some behaviors that I consider to be wrong.

It's okay with me for other people to do stuff that I believe is wrong. It's even okay to do things that are illegal. And so it's certainly okay to do things that used to be illegal. It's even okay to tell other people that if they continue to dress the way they normally dress, they are supporting your agenda. But it is wrong.

The annual wear-blue-jeans-if-you-condone-same-sex-sex day is coming up. Most years, I'm that unaware of it, and I wear my jeans

just as I do on the what you wear-today-will-not-be-constructed-as-supporting-any-particular-agenda days (if there are any such days left). So I'm now on the record as saying that if I forget and wear my jeans this year on wear-blue-jeans-if-you-condone-same-sex-sex day, I don't. It's okay with me if you do same-sex-sex. I simply consider it to be wrong, and I don't condone it. The other what-you-wear-will-be-constructed-as-supporting-an-agenda day has something to do with wearing baseball caps and being in opposition to same-sex-sex or something like that. It is not as well known. Since it's not as well publicized, I'm not sure whether wearing a baseball cap is supposed to signify that one is simply opposed to same-sex-sex or if it means that one is in favor of beating homosexuals over the head with baseball bats.

I generally wear jeans and a baseball cap. I am opposed to same-sex-sex, and I am opposed to beating anyone over the head.

Of course, I wouldn't say that

heterosexual monogamous relationships are natural. What's natural is sexual gratification. What's natural is that a committed relationship between one man and one woman is a lot of work, work that a lot of people don't want to do. What's natural is finding someone to beat over the head with a baseball bat and then blaming them. What's natural is name-calling. Homophobic is currently a popular name for name-callers to use.

So be careful on which days you wear jeans or a baseball cap. No matter how natural your clothes may feel, what you wear could get you into a lot of trouble on this campus. But if you or a friend have want to have any kind of sex, go ahead. It will probably feel natural. As the exasperated health-care worker said, "Hormones will always win out over neurons."

Well, now I've probably offended a lot of friends and strangers and changed no one's mind about anything. One question that comes to mind is why I'm so concerned about offending anyone.

In my last column, I alluded to my disgust with the behavior of the president. That's not a fun thing for any loyal American to do. It's especially disconcerting for a loyal Democrat like me.

I've even attacked the hypocrisy of the persons who daily attend state universities while they claim to be opposed to Big Government.

But to say something negative about that great American institution, same-sex-sex, invites one to a criticism that I would prefer to avoid.

It invites questions such as "What are homosexuals supposed to do: take a vow of chastity?" Okay, maybe I am wrong. Maybe it's not same-sex-sex that's wrong. Maybe chastity is wrong. I might be willing to concede that point. I know that many people who might have thought they were homosexual or heterosexual or whatever have taken a vow of chastity, but for all I know they may have all been wrong.

Then again maybe it was just the

See LARRY, Page 9 ▶

### Full credit, finally

■ Plus-minus policy a little more satisfactory.

Finally, students will get credit for the grades they have earned.

During a N. C. State Faculty Senate meeting last week, the issue of plus-minus grading was at the top of the list for discussion. A new policy was approved, 15 to 11, by faculty and senate members. Thanks to this approval, students who deserved credit for their A will now receive credit for it.

In the past, an A- and a B+ were considered equally when overall GPA was determined. Those who had earned an A were not given extra points for the A. The students who had earned an A- were the ones who benefited. With the new plus-minus policy in effect, students who receive an A will now be given 4.33 actual credit points. This will benefit students who actually earn an A, especially an A+. Since 1994, students have been

debating and arguing over the issue of plus-minus grading. Some students were not concerned with the policy, especially those who were benefiting from it.

However, students who were not receiving full credit for their A found themselves asking each other, "Why try harder? Why go that extra distance?" Strife was caused between students and professors — students were angry with professors who were using plus-minus grading. Students who were not benefiting from the A+ that they had earned were furious with the students who were benefiting from an A-. A student with an A- and a student with a B+ were given the same credit.

How could faculty and professors view that as equivalent and fair?

They have finally realized that it is not. The new policy for plus-minus grading is now in effect, and students who earn a "4" will see it in their GPA — the plus or minus won't simply be ink on a report card.

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BRETT WETZEL  
Staff Columnist

I tried so hard for so long to resist, but those crafty marketers at Harris Teeter finally won. After being taunted so many times by that extra 20 cents off a two-liter of Pepsi, I relented. Now Harris Teeter has my name, address and social security number, and I have a "VIC" card.

How could I not succumb? Scattered throughout the aisles were little gold signs reminding me of what a loser I was. Because I wasn't important enough, I couldn't get green beans for 49 instead of 79 cents. Every time I checked out I was greeted by the harassing challenge: "VIC Card?" I always had to shake my head in sullen shame, but no more.

Now I have a ticket to savings. I am an official very important customer. When I bring my items to the register and proudly brandish my scarlet and gold card, the clerk

and I share a knowing glance. They advertise the card as merely granting supreme discounts on select items, but I think it gives me, the customer, even more. In my pre-VIC era, there were many embarrassing moments when I had to purchase Tampax for my girlfriend, upon which the clerks often took occasion to brighten each other's day at my expense. Now that I am a very important customer, however, things have changed: I could walk up to the register with an arsenal of Pepto-Bismol and the clerk wouldn't bat an eye.

In addition, I now have tangible proof that I am indeed very important. The card alone has saved me from getting fired, dumped and I once was even able to break back into my apartment with it after I locked my keys inside. I have never felt so exclusive before, and the scattered marginal bargains I am privy to at Harris Teeter now seem merely a side benefit. I feel so good about myself with my VIC card, I

will often "accidentally" present it so I can flex my superiority. When I mistakenly gave the video store my VIC-embazoned plastic, \$33.52 in late fees was magically ignored. When my car was pulled over for an overdue inspection sticker, I casually pulled out my VIC card so "I could get to my license." Let's just say this officer too could appreciate a good discount on occasion. Nevermind that my license was also expired, the VIC card was fresher than hot coffee and a jelly donut from the Harris Teeter bakery.

Given my newfound importance, I still can't help but wonder how it might come around to hurt me. Already, my benefits are null and void once I cross Western Boulevard. There, it doesn't matter how very important a Customer I am. I have to be a most valuable player. And though the savings are reputed to be even more substantial for an MVP, the grand claims my MVP friends brag about of suddenly being able to request clean aisles

and carts that go straight do not entice me. I have given my loyalty to Mr. Teeter, and feel no need to join the rag-tag clan of the Food sam, led by that wild beast himself, Tom E. Smith — even if MVP's can get beans for as low as 39 cents.

Some have warned me that everything I buy, every time that little card is swiped, a log goes into the enormous Harris Teeter database, which they use to sell information to the CIA. This is how they are able to offer such outrageous bargains and still get by. It may well be true — one day all those cans of Campbell's Borscht will be counted up, and my plan to orchestrate a resurgence of communism in Russia will be revealed. But it's a risk I have to take. For the price of potential lower prices I have signed away my soul to Harris Teeter. Since reaping the benefits of being a very important customer, though, I know my soul is in better hands than before.

### Campus Forum

Teachers need to care about teaching, not research

I'd just like to make a few comments about the quality of teaching that I've encountered at N.C. State and other universities I've attended. It's funny, but I had more good teachers in high school

than I did in college and beyond. I think this is because professors are hired, in large part, because of the quality of their research, not their teaching ability. I suppose that this is because research brings money into the university.

The problem is, I suffer as a student because of this. Good researchers don't always make good teachers. This is my third semester of graduate school at NCSU; I've been satisfied with maybe half of the professors I've had. As a student, I don't really care about the quality of a professor's research. I care about his/her ability to teach

me. I come to class with energy and enthusiasm, get a good night's sleep, am conscientious about my studies, go to office hours, etc., and I consider myself to be intelligent enough to handle the work. But it seems that whenever I stop fighting the professors with questions in class and feedback, they go back into these speedy monologues where they're no longer talking to me. I don't know whom they're talking to, but I know that they're not talking to me. Some of them don't seem to care whether or not I learn the material, and some of them seem to look at teaching as a chore.

This is not funny. I resent being treated like an unwanted child.

I would like to go to a college where professors are hired based on their ability to teach. I'd learn a lot more. If I were wealthy, I'd be at that college now.

I wish there was a fund that made it more economically feasible for colleges to hire professors based more on teaching ability than quality of research. Maybe I'll start one someday or find one and donate to it if I can afford to.

Peter Frechtel  
Graduate Student, Statistics

# Duke

Continued from Page 3

injury sidelined the 6-foot guard for N.C. State's second tip-off with Duke.

So it was Miller alone to face Wojciechowski in the back court.

Coming into Sunday's game, Miller had posted five straight 13-plus-point performances that came, not coincidentally, in the first five starts of his career.

On Sunday, Miller once again struggled under Wojciechowski's pressure.

Miller saw 37 minutes, finishing with no points, three turnovers and two fouls.

But if Miller bent, he certainly didn't break.

Aside from accepting the task of controlling the State offense, Miller handed out a career-high six assists and, perhaps more importantly, didn't allow Wojciechowski a single field goal.

Wojciechowski didn't get off a single shot from the field but finished with six points after a perfect performance from the line.

Miller's start to his ACC career has been similar to Wojciechowski's three years ago.

In his freshman campaign, the 5-foot-11 senior earned starts in 15 of the 28 games that the Devils played. Wojciechowski averaged 4.0 points per game and established himself as a feisty player—a stigma that has stuck with the guard ever since.

In Reynolds Coliseum on Sunday, after a first-half play where he and Miller were tied up on the floor, the Duke guard was summarily booed every time the ball found his hands and upon every exit and entry into the game.

"He thrives on people rooting against him," said Jay Heaps, a third-year teammate of Wojciechowski's. "It is a battle for him day in and day out, but he always comes out on top. He will always rise to the occasion."

After Sunday's game, it seems that Miller is learning to do the same.

# Pack women fall, hold on to No. 1

■ Clemson gets the best of the Wolfpack women in OT.

Sports Staff Report

N.C. State fought back — apparently just not hard enough.

The Wolfpack women's basketball team came back to erase a 24-point Tiger lead in the second half to force the game into overtime but fell apart in the extra five minute period, falling 68-58 in South Carolina.

The Tigers had taken a 24-point lead in the second half, but Wolfpack Coach Kay Yow's team battled back, even taking a two-point lead itself in the final 20 seconds.

With the score at 53-51 and the advantage with the Wolfpack, Clemson's Amy Geren tried to grab the win with a three-point shot. Geren missed the shot but was fouled by NCSU guard LySchaale Jones.

Geren missed the first of three foul shots but sank the last two to send the game into overtime.

In overtime, the Tigers scored on three consecutive trips and allowed the Pack just five points to seal the victory.

Clemson improves to 17-6 overall and 9-4 in the ACC.

The loss drops the Pack to 18-4 overall and 9-3 in the conference but allows the Pack to maintain control of the No. 1 spot in the ACC rankings.



Chasity Melvin scored 11 points in State's 68-58 overtime loss on Saturday.

Olympic Medal Count			
	1	2	3
Netherlands	1	1	
Russia	1	1	
Canada	1		
Italy		1	
Belgium			1
Norway			1
Switzerland			1

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# Larry Techno

Continued from Page 7

Continued from Page 5

chaste heterosexuals who were wrong. There have always been limits on the sexual practices of heterosexuals. My disgust with the president is related to his alleged (and poorly denied) violation of those limits.

Fortunately for me, the president has been accused of only heterosexual adultery. If he had (allegedly) discovered that he needed a lover of a different gender than his wife, then to (many persons) his behavior would have been understandable. After all, he would have been getting in touch with his true self, or something like that. And I would have gotten into a lot of trouble for saying it was disgusting.

So get in touch with your true self, and have sex with whomever you please. It may be wrong, but who cares? Just be careful about the clothes you wear on campus when you're not having sex. And please feel free to do all the name-calling you like; one day we may find out that 10 percent of the population are natural name-callers.

DOS, short for Disk Operating System, which means it can handle multiple removable storage devices like disks and magnetic tape, unlike some of its mainframe predecessors, was treated by its creators like a commodity. Gates peddled his creation to the different computer makers, selling to whoever would buy it. This was a first in a market where most computer makers sold software, but gave away the operating system that ran it. As you probably know, the rest is history. Gates went on to become a multi-gazillionaire, and MS DOS gave way to MS Windows, which is a different beast all together.

Windows is what's called a GUI (usually pronounced gooey), or Graphical User Interface. Originally, Windows was just a pretty face for what DOS did behind the scenes. Windows 95 ended development of DOS and was, in the minds of many, the first version of Windows that was truly able to be called an operating system.

Windows wasn't the first GUI,

though. It wasn't even the first commercially successful one — the Macintosh OS was. The Mac was a true operating system from day one and never had the hindrances of DOS to deal with, either. However, when the Macintosh was introduced in 1984, it wasn't the first GUI. Apple borrowed extensively from effort going on at Xerox's Palo Alto Research Center to develop a GUI of their own. CPM even had a primitive GUI under development in the days before the IBM/MS deal. Xerox PARC's efforts failed to bring a commercially viable product to market, partly because it was felt that, at the time, the computing power needed to run their OS wasn't available in the personal computer market. So, they readily agreed when the creators of the Macintosh asked to tour the facilities. Okay, you know about Mac and Windows, so you think you've got a handle on the world of computer operating systems. Well, there's a lot more to it than you'd think.

There are several other choices out there for operating systems besides Mac and Windows. Commercially available systems for Intel x86 machines include OS/2 from IBM. Released in the days when Windows '95 looked like it was going to be Windows '96, OS/2 never really did hit the big time. OS/2 and its sibling OS/390 are

mostly reserved to a very small market share in the personal computer market.

However, they do power a large number of Internet servers and mainframes and are still supported and updated by IBM. If you're interested, have a look at [www.ibm.com](http://www.ibm.com), for some of OS/2's features. There's also BeOS, which originally only ran on RISC platforms, but has recently been ported to run on Intel hardware as well. BeOS is an oddball that most people have never heard of before, but it does offer some impressive features for a system still in development. Its web site at [www.be.com](http://www.be.com) has all kinds of information about Be for those interested, including how to order the OS and commercial software or pre-configured systems built to order. Incidentally, BeOS was at one time under consideration by Apple to be licensed as its next-generation operating system, code-named Rhapsody. Instead, Apple went with NeXT.

NeXT, a company headed by Apple's co-founder Steve Jobs, had made a name for itself with Openstep, an operating system that promised to be able to run on virtually any hardware, RISC or CISC. Software developers were

supposed to be able to write programs for one platform and, with a minimum of fuss, be able to run that same program on the other.

NeXT didn't really catch on either, except with a few people, including Apple. The other people interested in NeXT were software developers and programmers that wanted to minimize the amount of development work and maximize their available audience. Openstep, and soon Rhapsody, enable this by utilizing a software proxy that intercepts and interprets all the hardware needs of the operating system and translates them into the language of whatever hardware is there. To open up a new platform for development, all one need do is rewrite the proxy. This universal go-between is called a microkernel.

The microkernel is a recent development from the world of the granddaddy of all operating systems, UNIX. UNIX, in one form or another, is what is running on most computers connected to the Internet. N.C. State's lab computers and servers all run UNIX, as do those of most universities. There's a reason for this. UNIX was written at MIT and was originally made available, free of charge, to anyone who could run it. It became a favorite of universities in the early days of the

Internet, since it allowed for communication between remote computers and multiple user accounts. Above all, most of the software was free, usually due to the efforts of student programmers. For these reasons also, there are nearly as many versions, or flavors, of UNIX as there are hardware configurations to run it on. Each is a little different, but, with a little work, any program that will run on one version should work on all the others. This is the kind of environment that makes software developers and programmers drool.

So, what's on the horizon for computer operating systems? First of all, the dependence of an OS on a particular hardware setup is soon going to be obsolete. Based on advances in UNIX circles and NeXT technology, Apple's Rhapsody, due out in the next few months, promises to blur the lines between the different platforms, as well as run most of your current applications. Other advances in emulation, or imitating a certain kind of hardware with software trickery, also should be interesting. Already there are commercial packages that will let you run Windows on a Mac or the Mac OS on an Intel machine. Maybe someday everyone will catch on and run UNIX.

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