

# Technician

North Carolina State University's Student Newspaper Since 1920

Volume LXII, Number 7

Friday, September 6, 1991

Raleigh, North Carolina

Printed on 60% recycled paper

Editorial 515-2411 / Advertising 515-2029

## UNC-system puts moratorium on fee increases

By Laurie Medley  
Staff Writer

UNC-System President C.D. Spangler announced over the summer a system-wide moratorium on student fee increases. This is welcome news for students who have paid higher prices for everything from parking tickets to lab fees.



However, due to this moratorium some university departments must re-allocate revenue or cancel proposed improvements in services they were to offer students this fall. Harold Harrell, interim director of the Division of Transportation, said that two more buses were to be added to the Avenet Ferry Woffline route this fall. This plan did not go into effect, however, due to the lack of funds. He says that without the increased revenue from students' transportation fees, DOT had to use revenues from the parking services to maintain the Woffline services offered last spring.

As for next spring, Harrell anticipates the same level of Woffline service that students are accustomed to. Dr. Jerry Barker, director of Student Health Services, said his department is making a strong effort to maintain current services. In order to do so, Student Health Services has had to take money from its reserve fund. User fees will also increase on specialized areas such as X rays and PAP smears as well as on extended stays in the infirmary. Barker also said that little money will be

spent on medical education and travel, and nothing new will be added to the program. According to Barker, students presently spend \$58 a semester to receive 24-hour coverage seven days a week. Student Health Services attends to an average of 300 people a day. Barker says that if no fee increases are allowed next year, services will be cut. Third shift coverage, the allergy clinic and physical examinations may be eliminated. Fortunately for the University Student Center and Public Safety, the moratorium had no significant effect on their operations.

Lee McDonald, director of the University Student Center, said that the failure of the state to allow salary increases softened the blow for his department. Fee increases were originally suggested in anticipation of salary adjustments due to inflation. McDonald said that he had to "tighten up the ship" and make the best use of the money he has. Ralph Harper, director of Public Safety, said there would probably be no new projects in the near future. "The administration seems to be conscientious of the safety level at NCSU," Harper said.

## Placement counselor commits suicide

By Mark Tosczak  
Staff Writer

A man who has helped engineering graduates find jobs for almost 30 years committed suicide in High Point Tuesday, according to High Point police officials. Raymond Tew, 60, originally came to N.C. State University in September 1962. In 1964 he became the director of the Career Planning and Placement Center and remained head of it until 1979, when he became the engineering adviser.

He is survived by his wife, Nancy, two daughters, Sharon and Morgan, and a son Paul. Funeral arrangements have not yet been announced. "We are all shocked and saddened by his death," said Vice Chancellor of Student Affairs Thomas Stafford. "His death represents a real loss to the students on this campus."

"The university community should be much indebted to him," said Ralph Fadum, the dean emeritus of engineering who has worked with Tew.

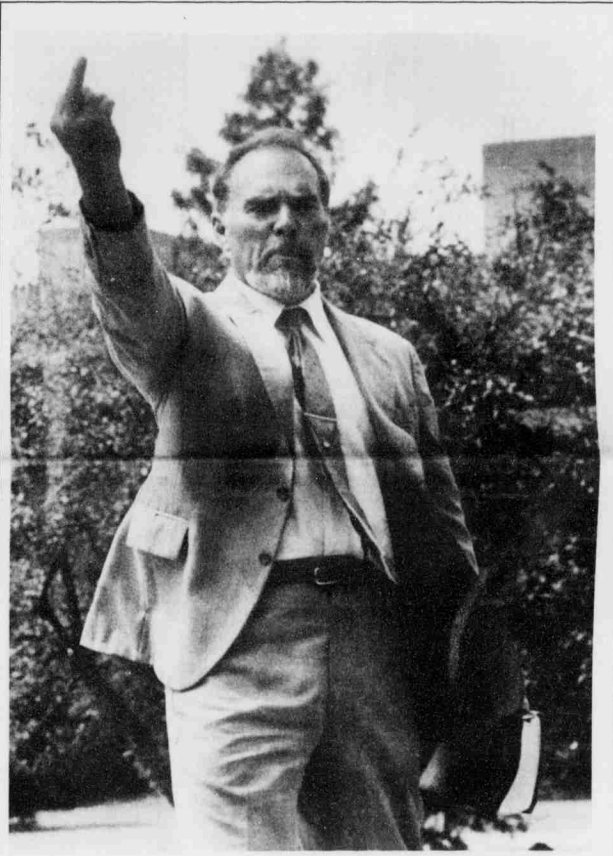
Walter Jones, who was hired by Tew in 1973 and has worked closely with him since then, described Tew as complex.

At times he could be gruff and direct, Jones said, but he was also compassionate.

Jones said that Tew once picked up a kitten that had been hit by a car and then spent about \$2,000 nursing the kitten back to life.

Jones said he thought the family was doing as well as could be expected under the circumstances.

Jones will be taking Tew's position as engineering adviser.



John Garner and Jen Mathews/Staff

### A bird in the hand ...

Brickyard preacher Gary Birdsong shows his audience a gesture that a student once made toward him after he told her she should not wear revealing clothes. Birdsong frequently preaches on the Brickyard around noon to students eating behind the Atrium restaurant and snack bar.

## Division of Economics and Business seeking school accreditation

### Nelson Hall would house newest school on NCSU campus

By Cynthia Frazier  
Staff Writer

By expanding the division of economics and business into a separate school, N.C. State University can better serve business students by improving the curriculum, said Dr. Doug Fisher, head of the department of economics.

The division also needs to be expanded because of the number of students enrolled in the program, Fisher said. Last fall there were 2,333 business and economics majors.

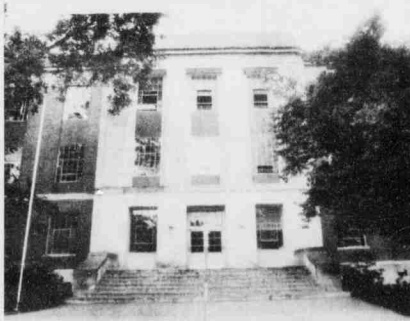
"There will be new degree programs," Fisher said. Eventually a master of business administration

program may be added. The school would also be better funded, he said.

"A school would be more efficient for raising funds to develop programs and classes," Fisher said. Research interests would also be better served by the expanded offerings, Fisher said.

School status could also attract faculty and gain accreditation from the American Assembly of Collegiate Schools of Business, said Dr. Robert Clark, head of the division of economics and business.

The program must still be approved by the UNC System, and it will be at least several years before the school could be estab-



Ann Kenion/Staff

Nelson Hall will house a College of Business if plans go as expected.

lished at NCSU.

The school would also offer minor courses of study to students majoring in other fields, Clark said.

NCSU may base its program on one at Iowa State University that began a business school in 1984 and received its accreditation last year. Iowa State is also a technically oriented university.

## Worsley worried about budget cuts

By Sonja Boerman  
Staff Writer

State funding for N.C. State University has been cut by 6 percent. But George Worsley, vice chancellor for finance and business, is more worried about possible future cuts. "We're more concerned about the possibility of a major revenue shortfall," he said. He was referring to a prediction the state was going to have a \$250 million shortfall this year. Sen. William D. Goldston Jr., a leading



state legislator on fiscal matters, made the prediction in The News & Observer Thursday.

Worsley said that such a shortfall could mean an additional 3 to 3.5 percent cut in NCSU's funding. The original 6 percent cut went into effect July 1.

Some of the difference has been made up by an increase in student tuition, Worsley said.

The cut has been made mainly in public services, with a 15 percent reduction in funds. Funding for administrative positions has been cut by 6 percent, 2.5 percent for faculty and 3 percent for staff. Computer purchasing has had \$800,000 cut from its funds. The library funding has not been cut by any substantial amount.

## Survey says: Large classes not too bad

By Scott H. Phillips  
Staff Writer

According to a survey taken by Chemistry 101 students last week, the typical 250-member chemistry class may not incite the apprehension that many students associate with the transition from high school to college.

The results showed that most considered class size unimportant. "I have a better chance to do my work," said Chad Flynt, a student majoring in aerospace engineering. "I am not in class with my friends and I don't know anybody."

Ted Newman of Littleton, N.C., was one of 45 students in his graduating class. He had heard horror stories from teachers warning him about large classes on university campuses.

He said the stories are exaggerated. "It is up to the student whether he or she will do well," he says.

The largest, most predominantly female class is the first section of Chemistry 101. It has 264 students. Other large classes include the first section of Civil Engineering 213, 134 students; the second section of Chemistry 107, 216 students; and the second section of Chemical

Engineering 205, 152 students. Part-time student Jay Kosturko did not know there would be so many people in his math class. It did not bother him, he said, because he believes it is the student's effort and not class size that is important.

The typical high school class in North Carolina has approximately 30 to 35 students in it. Dr. E. S. Maxwell, associate professor of biochemistry said, "It is more economical to have larger classes, particularly in the math and science courses where interaction with professors is not as important as in the English courses, which have relatively few students per class."

The students have to seek the help they need. Supplemental instruction and tutorial sessions run by teaching assistants are available, but they are voluntary.

Professors may be eager to help, but the students must make the first move.

"The poorer students are the ones who don't ask for help," said chemistry professor Dr. G. Long. He said that larger classes increase teaching experience, because a large number of students are taught the same material at the same rate.

## Former student sought by FBI

### Caldwell, partner wanted for theft of \$650,000 from teller machines

From staff reports

A former N.C. State University student who is being sought by the FBI faces up to 110 years in prison, FBI agent Thomas Lusby said Thursday.

The FBI accused Eric Michael Caldwell of 2203-B Gorman St. of using his knowledge as a Wells Fargo employee to help steal \$650,000 from 11 bank teller machines around the Triangle. Caldwell and his roommate, John Robert Hubbard, are being charged with nine counts of larceny. The News & Observer reported

Wednesday that the money was stolen from eight ATMs in Raleigh and one in Chapel Hill last weekend, all of them at Wachovia Bank. Caldwell, working as an ATM repairman, had codes and keys for all the machines, allowing the pair easy access.

Hubbard's car was found at the Raleigh-Durham International Airport, Richards said.

"Who knows what they were thinking," he said. "They're young guys. They could have gone to the Bahamas, who knows."

"We've intensified our search for the two suspects, and we're hopeful that the information we have been able to obtain will be helpful," Lusby said. If caught and convicted, the former computer science major faces fines of up to \$5,000 and prison terms of up to 10 years for each bank involved.

# FYI

September 6, 1991

## IMPORTANT DATES AND ANNOUNCEMENTS

The Sixth N.C. State Troops, a local Civil War re-enactment group, is now recruiting interested men and women. For more information call Major Harrington, 737-2428.

The Astronomy Club will meet in the Brown Room of the Student Center at 7:30 p.m. today. Weather permitting, they will be leaving the center and going to the observatory site at 9 p.m. All those interested, beginner or advanced, are urged to attend.

Volunteer Awareness Day will be Wednesday on the Brickyard. Volunteering offers you opportunities for job experience, vocational exploration, new friendships and community involvement.

Students who are interested in helping to improve the quality of life for NCSU students should come to the Students for Health Awareness meeting at Room 411 Clark Hall Infirmary Wednesday, 2:45 p.m. For more information call Linda Attarin at 515-2563 or Joel Goodson at 839-6259.

Women of the World, an international women's discussion and dialogue group, will meet Monday, 6:30 p.m., at the Community Center in the Q-Building of E.S. King Village. The topic of discussion will be "Women's Ways of Creativity and Expression." Guests have the option of bringing a simple dish or beverage for a potluck dinner. For more information call Sarah Sethi at 515-2451.

Student Health Services has orga-

nized a support group for survivors of rape and sexual assault. For more information contact Connie Domino at 515-2563. All inquiries will be kept confidential.

Hall Council Leadership Day will be Sept. 15, 1-6 p.m., in the Student Center Walnut Room.

The German Club invites all students taking German to Mitch's Tavern on Wednesdays, 5-6 p.m., for informal meetings. You can get help with your homework and meet new people. Refreshments will be provided. For more information contact Dean at 233-1702.

The Baha'i Club meets every Friday at 7:30 p.m. in Room 107 of the Student Center Annex. Officers will be elected on Sept. 13. For more information please call 831-0174 and leave a message. All students, faculty, staff, alumni and their families are welcome to attend.

The College Bowl program is sponsoring Rookie Practices every Wednesday afternoon, 4:30-6 p.m., in Room 3115G of the Student Center. All students, faculty and staff are welcome to participate in these College Bowl training exercises. For more information call 515-2453 during regular business hours, or call Claxton Graham at 546-0351.

## LECTURES SEMINARS SESSIONS WORKSHOPS

All graduate students within two semesters of graduation who intend to use the Career Planning and Placement Center services should attend an orientation session on Wednesday, 5:15-6:15 p.m., in 214 Cox Hall.

The Graduate School invites all NCSU graduate students, faculty, staff and friends to attend the first colloquium "Ethics and the

## Corrections and Clarifications

On Wednesday, Sept. 4, Technician ran a column on our opinion page entitled "Sesame Street remains an influence", written by Claxton Graham.

The photo with the column incorrectly pictured columnist Van Monroe. At right are the correct pictures of both writers.

In the Friday, Aug. 30 edition, three names were misspelled in a news article entitled "Student looking for bone marrow donor." The correct spellings are Raiford, Willits and Stellar. Technician regrets the error.

Technician is committed to fairness and accuracy. If you spot an error in our coverage, call our editorial offices between 8 a.m. and 5 p.m., Monday through Friday, at 515-2411.

Professors: Translating Ethics into Practice in the Biomedical/Health Science Professions." The colloquium will be Wednesday, 3:30-5 p.m., in the Alumni Building Conference Room.

Compiled by T. Shawn Long

## NCSU official elected to national post

By Andrew Lloyd  
Staff Writer

Jerry Ocorr was elected president of the Association of Veterinary Medical Development Professionals of North America on July 30. Ocorr is the fourth president of the AVMDPNA, which was formed in 1987.

As president of the AVMDPNA, Ocorr's basic duty is to relay information among veterinary school development officers so they can determine what techniques are successful in finding funding, Ocorr said.

There are 31 members of the AVMDPNA, 27 schools in the United States and four in Canada. AVMDPNA functions as an information link between schools.

AVMDPNA has brought the already close-knit veterinary schools closer, said Ocorr.

AVMDPNA is also responsible for finding out what other veterinary schools across North America are doing in relation to research, changes in faculty and various program opportunities.

Ocorr has been the developmental officer, or executive director, for the College of Veterinary Medicine for the last five years.

He is also the coordinator of the N.C. Veterinary Medical Foundation, which works with the Veterinary College in seeking funding for the Veterinary College.

The foundation supports Friends Helping Friends, an organization that assists clients of Veterinary Hospital in paying expensive medical bills for their pets, and performs public relations duties for the college.

Ocorr's duties as development officer are to seek funding for the Veterinary College, publish their quarterly newsletter and support various scholarships.



Early birds

A few studious souls read their textbooks while waiting for class.

Naiger Montz/Staff

## International Model Search

Saturday, September 14, 1991

N.C. Model's Association will be flying Sue Charney, former Vice President, Ford Models New York City, for a day long seminar on the modeling industry. Currently an International Model Scout, Sue's placed models with:

- Ford, Wilhelmina and Paris/USA, N.Y.C., Beatrice Models-Milan, Zoom-Paris, News-London, Yoshie-Tokyo

This Starmaker has been instrumental in the careers of Kim Basinger, Cheryl Tiegs, Christie Brinkley, Kim Alexis, Corbin Bernsen, and Ian Buchanan.... Just to name a few!

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## Women's basketball needs manager

The N.C. State University women's basketball team is looking for a manager.

The job requires attendance at practice on Monday, Wednesday and Friday from 1:30-4 p.m., and on Tuesday and Thursday from 4-7 p.m. during the season.

For further information, contact the women's basketball office at 515-2880.

## NCSU places 113 on ACC Honor Roll

A record 113 athletes earned a 3.0 or better grade point average last year and were named to the ACC Honor Roll. Included in that list are NCAA 5,000 meter champion Laurie Gomez-Henes, as well as all-Americans Sylvester Terky (wrestling), Francine Dumas and Katrina Price (track) and Kelly Mitchum (golf).

Eleven Wolfpack football players were named to the honor roll, the third highest in the league behind Duke (25) and Virginia (14). Heading the list is former all-ACC center Charlie Cobb, who claimed the John Tatum Award last year emblematic of the league's top scholar-athlete.

## Magazine touts NCSU athletics

N.C. State University's department of athletics will unveil its Pack Preview Magazine on Saturday at Carter-Finley Stadium prior to State's 1991 season-opener against Virginia Tech.

The inaugural magazine will include photographs and rosters on the current Wolfpack squad and coaching staff, as well as features on State seniors Billy Ray Haynes and Scott Adell. Also inside the 112-page magazine will be the first of a season-long series celebrating the Wolfpack's 100th football season including historical features and a story on former NCSU Outland Trophy Winner Jim Ritcher, who currently stars for the AFC champion Buffalo Bills.

Pack Preview Magazine, which sells for \$3, will be on sale at each home football and basketball game this school year.

Technician News Services

# Sheridan seeks first win over Hokies

## Wolfpack opens 100th football season against Virginia Tech in Carter-Finley Stadium

By Jeff Drew  
Staff Writer

The last time the N.C. State University football team played a season opener, the result was a 67-0 demoralizing of a Western Carolina squad that could not even manage a first down. When the Wolfpack opens its 100th season of football this Saturday at home against Virginia Tech, the competition should be a little tougher.

Actually, it should be a whole lot tougher. The Hokies have beaten State on all three encounters during the Dick Sheridan era: 25-24 in the 1986 Peach Bowl, 25-23 in Raleigh in 1989; and 20-16 last season in Blacksburg, Va. Furthermore, Virginia Tech, already 1-0

after a 41-12 victory over James Madison last week, will take the field Saturday with its best team in several years. The team will feature Will Furrer, one of the top three NFL quarterback prospects in the country.

As if that weren't enough, State will have to try and contain Furrer with a revamped defense that lost six starters — five to the NFL draft. Add to that the fact that three of those draft picks came out of the secondary, where only junior Sebastian Savage returns.

Clearly, Sheridan's squad is facing a very serious test.

"There's a lot of unknowns we have on our football team, and the biggest question mark is the secondary," Sheridan said at his press conference Wednesday. "It's not going to take

us very long to be able to evaluate what we are able to do back there, because we are facing one of the most talented quarterbacks in the country with talented receivers and a passing game that puts a lot of pressure on you."

Much of the burden of containing Furrer's receivers will fall on Savage's shoulders. Knee injuries to potential starters Wade Burton and Keith Johnson will thrust the remaining secondary responsibilities on probable first-time starters Dewayne Washington, Mike Reid and freshman William Strong. Former running back senior Tyrone Jackson and former receiver junior Ricky Turner will also try to hold back the floodgates.

However, as Sheridan pointed out, if State

cannot pressure Furrer, no number of defensive backs will be able to stop him.

"We put some pressure on him last year, but the two guys who put on most of the pressure, Mike Jones and Elijah Austin, are gone," Sheridan said. "We've moved some people around to try and strengthen our pass rush. I think it's a factor. If you give a guy like Furrer time to set up and throw, he'll just pick you apart."

Leading the Pack's pass rush on Furrer will be a trio of all-ACC prospects, linebackers Clayton Henry and Tyler Lawrence and linebacker turned left tackle senior Mark Thomas. Returning starters, including nose-

See **SHERIDAN**, Page 10

# Booters ready for Met Life

By Todd Pfalzgraf  
Staff Writer

The time has finally come for the Wolfpack to redeem themselves. After being shocked in a 5-3 shootout in last year's NCAA final four, the N.C. State University men's soccer team has been anxious to return to the playing field.

State opens its season Saturday afternoon at 5 p.m. at Duke Soccer Stadium against Illinois State. On Sunday, the Wolfpack will play Syracuse at 5 p.m. to close out play in the annual Met Life Tournament.

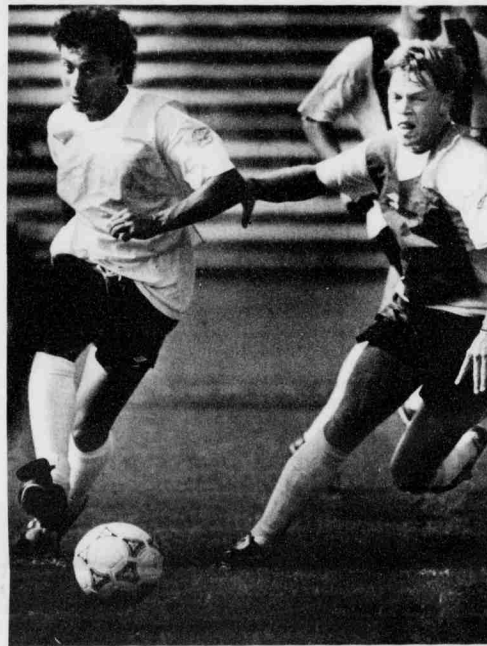
State will be opening the season minus two graduates: defender Curt Johnson — now assistant coach — and forward Tom Tanner.

Johnson will probably be replaced by Dave McCurdy, who found considerable playing time in their backfield last season after junior Marlow Campbell was injured. These two will be joined by senior Duane Hampton and sweeper Scott Schweitzer in a defense that has improved considerably since last season.

Head coach George Tarantini has a large hole to fill in the midfield, however. Senior all-American David Brose is out until October recovering from leg surgery.

Erwin Aguilera has been hampered by an ankle injury and will probably start even though he's not one hundred percent. The only other experienced midfielder is Dewan Bader who had considerable playing time last season. The open spot will be up for grabs between Rudy Higa, Raleigh native Mike Casey, and two freshmen Jason Riegler and Cory Kirspl.

State won't need to worry about offense. In fact, expect a high-scoring season. State's triple punch of Henry Gutierrez, Alex Sanchez and Roy Lassiter tallied 36 goals and 22 assists. They'll be joined by Gabriel Okonkwo. Okonkwo is a junior college transfer from NAIW two-time national champion West Virginia



Marc Kawanishi/Special to Technician

Atlantic Coast Conference Player of the Year Henry Gutierrez (left) drives past a teammate during practice. The Pack opens its season Saturday against Illinois State at Duke.

Wesleyan. These four are expected to exceed 50 goals this year.

State matches up well against Illinois State, which plays a defensive style. If the Wolfpack can push the attack and manage their slight advantage at midfield, the Pack should be able to highlight their superior speed and attacking ability.

However, should Illinois State break the

Wolfpack defense, they'll probably face Senior David Allred in the net. Both Allred and Sophomore Mark Gailey have been battling for the starting position this season. Last year, both split time in the net until the championship run when Allred won the job. This season, Tarantini has opened the starting spot for either one to take.

# Pack spikers beat Pirates

By Bill Overton  
Assistant Sports Editor

GREENVILLE — N.C. State University women's volleyball team struggled to a five-game victory over East Carolina Wednesday night in the opener for both teams.

The seesaw affair lasted just over two hours before the Lady Pack escaped with a 15-8, 12-15, 15-12, 12-15, 15-9 win.

"East Carolina played extremely well," said Judy Martino, Wolfpack head coach. "We did some things well, but we still have a lot to work on."

The Lady Pack showed some nervousness in the first game, falling behind 3-0 before scoring on a block and then running off 11 straight points — thanks in part to Lady Pirate unforced errors.

The Pirates made a brief run at the end of the game before State's Tenekah Williams was able to put the game out of reach with a kill down the line.

In the second game, the Wolfpack lost some composure, never leading and falling 15-12. The Lady Pirates gave the Pack several opportunities on service faults, but State could not take advantage.

"They did a very nice job in the second game," said Martino. "We did not pass the ball well at all."

The critical game three featured the Pirates once again jumping out to a quick lead. State fell behind 3-0 again, but responded well, playing one of their best games of the match, according to Martino.

The Lady Pack sparked to a quick 5-0 lead in the fourth game and appeared to be on the way to a four-game victory. However, ECU would not give up, playing with inspiration before the estimated crowd of 250 in Minges Coliseum. ECU's Rhonda Jackson made a miraculous dig for the winning point and forced a fifth game.

The deciding game was played under the modern rally points system, where each point is scored no matter who is serving. In this game, the Pack would not be denied. They rode big serves by senior Kim Scroggins and junior Susan Dew and scored the win on a kill by Lisa Kasper.

State will now go back on the road to Washington, D.C., where they will play in the George Washington Invitational. They play matches Friday against the host Colonials, and Saturday against Liberty University.

"We worked hard tonight on the block, and I thought we did a better job with."

# Women booters to host Wolfpack Classic

By Jeff Drew  
Staff Writer

If history holds true this weekend at the Puma Wolfpack Classic, the N.C. State University women's soccer team should open its season with two victories.

After all, in four previous Wolfpack Classics, State has not suffered a single defeat, compiling a perfect 8-0 record. Furthermore, State is also undefeated against its two weekend opponents, Villanova and Rutgers. State holds a 1-0 series lead over Villanova, a 2-1 decision in 1989, and has defeated Rutgers in both previous meetings, including the most recent — a 4-0 whipping in 1988.

On the surface, it seems the Wolfpack, ranked seventh in the pre-season ISAA national poll, should cruise through the weekend.

Dig deeper, and a couple of potential problems exist.

First, Villanova and Rutgers might represent the toughest competition State has ever faced in the Wolfpack Classic. The Wildcats return 10 starters, including second team all-American striker Tina Conti, from a 7-8-2 squad. Similarly, the 14th-ranked Scarlet Knights bring back eight starters, paced by outstanding goalie Saskia Webber, who recorded nine shutouts during a 13-5-1 campaign last season.

"Both teams should be very physical teams, typical New England teams with tough, hard-nosed athletes," State head coach Larry Gross said. "Rutgers will be a very good team. They should have an improved offense and the defense has always been strong, spearheaded by a really strong goalie."

State's second potential problem involves the health of the squad. Senior stopper Jode Osborne is questionable for both games

because of a persistent abdominal ailment, and senior midfielder Susie Jones has been slowed somewhat thanks to a pulled muscle.

In addition, freshman Susanne Gerrero, a Canadian national team member, is sidelined until at least mid-September while recovering from knee surgery and her Canadian national teammate, senior striker Fabienne Gareau, has been playing with a pinched nerve in her lower back.

"We haven't formulated a starting line-up yet. And right now, it's more dictated by injuries and illness than anything else," Gross said.

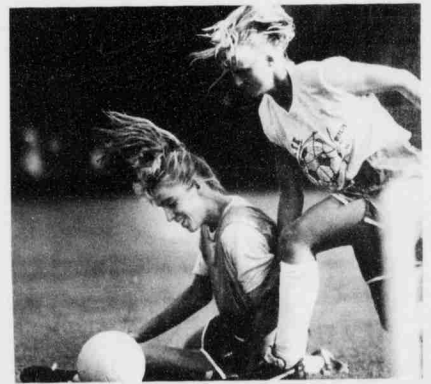
But the news is not all bad for the Wolfpack. State's depth and balance should allow Gross to make the compensatory lineup changes, and if necessary, replace Osborne. Senior co-captain Kelly Keranen can move back from her starting midfield position back to defense, where she has started the previous

three seasons, to fill in for Osborne. In addition, Gross feels entirely comfortable starting and playing any of a trio of juniors: Alana Craft, Leila Tabatabai and Anne Brennan in the midfield with Jones.

On the frontline, junior Collette Cunningham and sophomore Kim Yankowski should provide Gareau with capable support. Should Gareau's back falter, Gross can choose between junior Kelley Mamford and freshman Betsy Anderson, who have both performed very well in practice.

In the back, senior sweeper Mary Pitera and wing defenders senior co-captain Kristin Star and junior Linda Kurtyka should provide Osborne or Keranen with plenty of help. In goal, sophomore Michelle Bertocchi has earned the starting job with an excellent pre-season. Gross also anticipates redshirting

See **WOLFPACK**, Page 9



Marc Kawanishi/Special to Technician

State senior Mary Pitera tries to steal the ball from a teammate. The women's soccer plays Villanova at 2 p.m. Saturday.

# Basketball stars to aid the homeless in Reynolds exhibition game

The second annual Hoops for the Homeless will be played Tuesday night in Reynolds Coliseum. The benefit game, sponsored by Triangle Housing/Homeless will provide basketball fans with some of North Carolina's best ACC stars for the last decade.

The two responsible for the game are Joel and John Hopkins, both of whom were members of the 1989 NCAA Division II National Champion N.C. Central team. They have taken their own time and money and invested it in a cause which will help the underprivileged of the Triangle area.

They came up to our office to ask if we would like to promote the game, and explain a little about the program. Turns out they originally wanted to play the game at



Bill Overton  
*Off the Bench*

Carolina, but couldn't agree to any terms with UNC officials. They were scrambling for a place to play.

Within a few days, they spoke to State, and the game was set.

"We have had more support for the game here," said Joel Hopkins. "Coach Robinson has helped out a whole lot. State should feel very fortunate to have a coach such as Les

Robinson."

While Robinson is just endorsing the game, and unfortunately won't be able to attend, it's once again another example of Robinson's care for the community and genuine love for more than just basketball.

"All these players are coming here to play for charity," said Robinson. "Everyone turns out a winner."

Robinson continues to impress, not only with his work on the court, but with the many functions he attends to outside his job.

He participated in Hot Hoops for Special Olympics, as well as the Duke Children's Classic over the summer.

And he has a program like no other in the country.

Former Wolfpack players who did not finish their education are invited to come back and return to State to complete it. They are fully funded; they just have to make the decision to return. Since Hawkeye Whitney initiated the program last year, three Wolfpackers have come back, and Robinson hopes even more will use it.

The grandest part of the whole deal is that the money to fund these former Wolfpackers comes from Robinson's shoe contract with L.A. Gear.

"We want to make them feel welcome," explained Robinson. "I've had some say that they feel like it's a cloud over their head. People don't understand the tension being brought forward. They're saying 'hey, that's a chapter I want to complete in

my life."

While Robinson loves to give his time to charity, he knows his time is valuable, and he still has a responsibility to his players.

"You've got to remember you have a job to do, also," said Robinson. "That's important to me."

When we lost Jim Valvano almost a year and a half ago, I thought that basketball would never be the same here. State just bought out the best coach in college basketball. I believed.

I now feel as though the university made an extremely wise choice. Les Robinson has brought back a positive attitude to NCSU. And it has nothing to do with winning basketball games.

# Pack swimmers gain international experience

By Jennifer Bouck  
Staff Writer

Four Wolfpack swimmers and divers represented their countries in international competition this summer. Three members of this group competed in the European Championships, Aug. 20-25.

The Pack was also represented at the Mediterranean Games and the World University Games.

Aris Iouandis, a senior majoring in business management, is a native of Thessaloniki, Greece. He competed on the Greek National team at the Mediterranean Games and the European Championships in his specialty, the 100 meter butterfly. In the

Mediterranean Games, in Athens, Greece, he placed sixth. Two weeks ago he swam at the European Championships, also in Athens, but was disqualified due to a false start.

In addition, he placed second in the 100 meter butterfly at the Greek National Championships this summer.

The challenging part of the summer was all three meets being held within six weeks. In his career at N.C. State University, Iouandis has placed as high as fifth (1990, 100 yard butterfly) in the ACC Championships.

"It took a lot of courage for him to come to another country to go to school," said assistant coach Roger Debo. "He is a hard

worker and has done well as a student and athlete."

When speaking of his goals for the coming season, Iouandis said, "I hope to make a NCAA national time cut and place in the top three at ACCs. Also, I want to win Greek Nationals and place in the top three at the Balkan Games."

In addition, he will be training for a shot at the 1992 Olympic team. "It is going to be hard, but I think I can improve and hopefully make the team," he said.

"He has tremendous talent, a lot more than people know," said head coach Don Easterling. "He has had problems in the past with injuries that slow him down."

Unlike the United States Olympic team

selection method, where the top two swimmers in each event make the team, Greece sets cut-off times so they only send swimmers who should swim well relative to the rest of the competition.

Another Pack swimmer on the Greek team is fifth-year senior Nick Paleocrosis. Paleocrosis, majoring in business, was the Greek National Champion in 1989 (50 meter freestyle), 1990 (50 meter freestyle), and 1991 (50 meter and 100 meter freestyle). During the summer he competed in the Mediterranean Games and European Championships, both meets in his hometown of Athens. In the Mediterranean Games he swam his specialties, the 50 (fourth place) and 100 freestyle (sixth).

At the European Championships, he placed 21st in the 50 and 27th in the 100 freestyle. In addition, he swam a leg for the Greek team in the 400 meter relay, which placed eighth.

Paleocrosis transferred to State from Arizona State University after the 1987-88 academic year.

"He made a choice to go to Arizona and realized it was a mistake," said Debo. "He then made the decision to correct the problem and he contacted us here. It took a lot to transfer, but Nick was fortunate and didn't have his problems follow him here to State."

See **FOUR**, page 9

# Women runners look to improve in 1991

By David Honea  
Staff Writer

N.C. State University's biggest athletic dynasty, the women's cross country team, is looking for yet another ACC championship.

The team has already taken four consecutive league crowns, and in 13 years of ACC competition has won 10 conference titles.

The team has never lost to a team that didn't win an NCAA championship, but the team actually looks to improve this season.

"Last year's ACC championship was one of the best races we've ever run," said State coach Rollie

Geiger. "It wasn't an outstanding race in terms of scoring, but every person on the team ran the best race she was capable of at that point in the season. And we beat a Clemson team that finished third in the nation."

"But our races at nationals have been disappointing the last couple of years. We haven't been able to run our best."

"We've had people get sick, we've had others running hurt and struggling to finish the season. Our primary goal is the ACC championship, but we also want to move back toward the top at nationals."

To do that, the team must over-

come the loss of a number of seniors, foremost among them Francine Dumas and Nikki Cormack, each of whom ran on four ACC championship teams. Dumas was a two time all-conference honoree, while Cormack also ran in the scoring five for the last two seasons.

In their place, State has a core of strong senior leadership, led by NCAA 5,000-meter champion Laurie Gomez-Henes, who was second at last year's ACC championship. Alongside her should be all-American and three time all-ACC runner Katrina Price.

Senior Kim Dean was sixth at last

years ACC meet, and gives the Pack a very strong trio up front. And Danielle Benoit, the team's sixth runner at last year's NCAA meet, returns much stronger.

"We have three potential all-Americans in Laurie, Katrina, and Kim and I think Danielle is also ready to assume a major role," Geiger said. "We're going to need a lot from the seniors, because we're very inexperienced beyond that group."

Sophomore Monica McHenry heads State's group of underclass-

See **RUNNERS**, page 9

**Write for Technician!**  
Gain experience, meet people and have a great time. Stop by suite 323 of the Student Center Annex and talk to Keith in News, Joe in Sports, Jill in Sidetracks, the other Joe in Happenings, Kimberly in Opinion or Troy in Frontiers.



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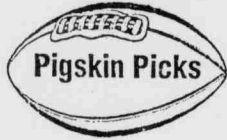
# Pigpickers open season, Suiter vows to win again in 1991

Well, fall is in the air and we all know what that means — yes, another season of your favorite personalities (Pigpickers) picking the college football winners (N.C. State University). Some rely on luck, others pool their skills or have a system.

Still, others just use a darboard. In the past, our esteemed Pigpickers have become, shall we say, extremely competitive. The battle for the top spot last year was uglier than Carolina freshmen but this year we hope for a cleaner fight.

Yeah, right. Last year's premier Pigpicker was Tom Suiter and he is back to defend his title. Tom beat out fellow WRALER Rick Sullivan with his exceptional picks during bowl week. Rick led from the gate last season but faded in bowl week to suffer defeat rather than victory.

Rick responded "This year I'm going to make him eat it. I took him lightly last year



but it won't happen again."

Tom does have history on his side though. He's won it in 1985, '87, '88 and '90. "I expect to win again...or at least in the top two," said Suiter. These two will be at each others throats all season for the top spot but they will be challenged by a whole passel of relative new comers.

Some strong competition should come from Al Daniel and Buzz Peterson, both

assistant men's basketball coaches.

At first Al had no comment but hastily added "We know who will win because of previous educational experience." Buzz warned the other Pigpickers to "Watch out. I've been schooled by Les."

We hope they will do better than Les did with his picks last season. Our own Sport's Editor Joe Johnson is again on the panel and will try his hand at improving his record from last year.

"I've got a system this year and I'm not fooling around." Joe's assistant Bill Overton will join the rookies on the panel with hopes of making an impact. Bill's goals are not quite as high as the other Pigpickers: "As long as I beat Joe, I'm happy."

Well, you gotta do what ya gotta do.

Our local farm yard competition continues with Larry Campbell from the Cultural Center and Mike Borden from Student

Development. Though it is Mike's first year, he has set his hopes high and vows to "shoot down the twin pickers at WRAL."

Mike has surrounded himself with experts ... and the USA Today in hopes a more "scientific approach" will give him the victory. In fact, he is so sure of his method, he wants to be known as Dr. Mike. Amanda Marsh (Goddess) is the editor of the yearbook (Agromeck) and is making her first appearance as a Pigpicker this week. Everyone needs to come out and buy a yearbook! You've gotta watch her, she might come out of nowhere to take first place.

This week's guest is the esteemed Bill Holmes, Technician's very own Editor in Chief. He hopes to get the guest off to a good start this year — A position that usually does rather poorly.

All that and he looks a little like Bart Simpson.

And now a brief word on the picks. Drunmill please!

There does appear to be a consensus pretty much on this weeks games. The Virginia at Maryland game seems to have the widest spread. Clemson (What NCAA violations?), South Carolina (What did happen to Todd Ellis?), NCSU (The best of the best), Florida State (Number one...for now), Ohio State (Academics? What's that?), Washington (The state, not the city), Notre Dame (Public Drunkeness), Michigan (They ain't got no Bo) and Pitt (Prepare to be Pelt-ed) are the favorites and the way it looks, no matter who wins or loses, the Pigpickers will be about even.

This weekend will also be win one in NCSU's perfect-season National Championship and a preview of our victory in the Citrus Bowl New Year's Day! And remember, you heard it here first.

## Week 1



Joe Johnson

0-0-0

0-0-0



Bill Overton

0-0-0

0-0-0



Tom Suiter

0-0-0

0-0-0



Rick Sullivan

0-0-0

0-0-0



Amanda Marsh

0-0-0

0-0-0



Larry Campbell

0-0-0

0-0-0



Doctor Mike

0-0-0

0-0-0



Al Daniel

0-0-0

0-0-0



Buzz Peterson

0-0-0

0-0-0



Bill Holmes

0-0-0

0-0-0

|                             |             |             |             |             |               |             |             |             |             |             |               |
|-----------------------------|-------------|-------------|-------------|-------------|---------------|-------------|-------------|-------------|-------------|-------------|---------------|
| Virginia Tech at N.C. State | State       | State       | State       | State       | Virginia Tech | State       | State       | State       | State       | State       | Virginia Tech |
| Virginia at Maryland        | Virginia    | Virginia    | Virginia    | Maryland    | Virginia      | Maryland    | Virginia    | Maryland    | Virginia    | Virginia    | Virginia      |
| App. St. at Clemson         | Clemson     | Clemson     | Clemson     | Clemson     | Clemson       | Clemson     | Clemson     | Clemson     | Clemson     | Clemson     | Clemson       |
| Duke at South Carolina      | S. Carolina | S. Carolina | S. Carolina | S. Carolina | Duke          | S. Carolina | S. Carolina | S. Carolina | S. Carolina | S. Carolina | S. Carolina   |
| Tulane at Florida St.       | Fla. State  | Fla. State  | Fla. State  | Fla. State  | Fla. State    | Fla. State  | Fla. State  | Fla. State  | Fla. State  | Fla. State  | Fla. State    |
| Arizona at Ohio St.         | Ohio St.    | Ohio St.    | Ohio St.    | Ohio St.    | Ohio St.      | Ohio St.    | Ohio St.    | Ohio St.    | Ohio St.    | Ohio St.    | Ohio St.      |
| Washington at Stanford      | Washington  | Washington  | Washington  | Washington  | Washington    | Stanford    | Washington  | Washington  | Washington  | Washington  | Washington    |
| Indiana at Notre Dame       | Notre Dame  | Notre Dame  | Notre Dame  | Notre Dame  | Notre Dame    | Notre Dame  | Notre Dame  | Notre Dame  | Notre Dame  | Notre Dame  | Notre Dame    |
| Michigan at Boston College  | Michigan    | Michigan    | Michigan    | Michigan    | Michigan      | Michigan    | Michigan    | Michigan    | Michigan    | Michigan    | Michigan      |
| Southern Miss at Pitt       | Pitt        | Pitt        | Pitt        | Pitt        | S. Miss       | Pitt        | Pitt        | Pitt        | Pitt        | Pitt        | Pitt          |

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So hurry up and fill this out, and good luck to Technician, the nation's hottest student newspaper for information and entertainment!

|  |   |
|--|---|
| <p><b>Food &amp; Drink</b></p> <p>Best place to take Mom and Dad to dinner _____</p> <p>Best place to take a date to dinner _____</p> <p>Best place to take a date to breakfast _____</p> <p>Best late-night eatery _____</p> <p>Best place for dessert _____</p> <p>Best fast food _____</p> <p>Best cheap beer _____</p> <p>Best beer _____</p> <p>Best mixed drinks _____</p> <p>Best store for cheap groceries _____</p> <p>Best dorm meal _____</p> <p>Best NCSU snack bar _____</p> <p>Best pizza delivery _____</p> | <p>Best radio station _____</p> <p>Best WKNC DJ _____</p> <p>Best place to buy a CD _____</p> <p>Best place to sell a CD _____</p> <p>Best place to meet men _____</p> <p>Best place to meet women _____</p> <p>Best pick-up line _____</p> <p>Worst pick-up line _____</p> <p>Best place to watch people _____</p> <p>Best magazine _____</p>            |
| <p><b>Entertainment</b></p> <p>Best place to watch a ball game _____</p> <p>Best local band _____</p> <p>Best place to see a band _____</p> <p>Best place to go dancing _____</p> <p>Best TV show _____</p> <p>Best late-night rerun _____</p> <p>Best place to see a movie _____</p> <p>Best movie on video _____</p> <p>Best place to rent a video _____</p>   | <p><b>University Staff</b></p> <p>Best class _____</p> <p>Toughest class _____</p> <p>Best lecturer _____</p> <p>Best residence hall _____</p> <p>Best off-campus living _____</p> <p>Worst building on campus _____</p> <p>Ugliest site on campus _____</p> <p>Most expensive book at Bookstore _____</p> <p>Biggest waste of University funds _____</p> |
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Lost Her

NO

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9-13 CRYPTOQUIP

Y D A N I D H J N U Z U Q I Z O H Z M -  
M Z A J Z O S D N C J I D A C H Q N M W  
V Z D V M Q G S D U W .

Today's Cryptquip clue: I equals F

The Cryptquip is a substitution cipher in which one letter stands for another. If you think that X equals O, it will equal O throughout the puzzle. Single letters, short words and words using an apostrophe give you clues to locating vowels. Solution is by trial and error.

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**CROSSWORD By Eugene Sheffer**

**ACROSS**

1 Cultist  
3 Entries  
4 Tacturn one  
8 Except  
12 Perform  
13 Barrett or Jaffe  
14 First  
15 Garage  
17 Judd  
18 Asia's neighbor  
19 Use a spider  
21 Become  
22 Pilot's route  
26 "H" singer  
27 Derrick boom  
30 She-bear, in Barcelona  
31 Milky gam  
32 Standard  
33 Cauldron concoction  
34 Put out feelers

**DOWN**

1 Baseball's comment  
2 Beige  
3 Hooses  
20 Tease  
4 Thin  
23 Spotted  
24 Bewildered  
25 Alternates  
6 Actress  
7 London theater district  
8 Silenus, for one  
9 "The Daba Honey-moon"  
10 Irritate  
11 Actor  
16 Any of five for Vanna?  
20 Tease  
23 Spotted  
24 Bewildered  
25 Alternates  
32 Due  
33 Mingle  
35 Single component  
36 Satisfy  
38 Cymric  
39 In the thick of  
42 Struck with reverence  
43 Concern  
44 Rochester's love  
45 Actress  
46 Exploitation  
47 Fleur-de  
49 Embarrassed

**Find Answers To Today's Puzzle On Page 8.**

**Solution time: 28 mins.**

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Chris Gearty/Staff

Dr. James Otvos processes the results of a blood cholesterol test performed on the Nuclear Magnetic Resonance Spectrometer. Otvos' research was the result of earlier NMR work believed to predict cancer.

## Checking your cholesterol

### NCSU researcher revolutionizes medical testing

By Troy Page  
Frontiers Editor

Do you know your cholesterol level? Most Americans who have their cholesterol levels tested don't get the whole story about their risk for heart disease, and those that do often get questionable results, according to James Otvos, professor of biochemistry at N.C. State.

Current testing methods for blood lipoprotein levels (cholesterol) are expensive and time-consuming processes, says Otvos. Standard tests give misleading results about varying levels of High Density Lipoproteins (HDL) or "good cholesterol", Low Density Lipoproteins (LDL) or "bad cholesterol", and Very Low Density Lipoproteins (VLDL), whose role in body chemistry is currently unknown. Unfortunately, more accurate chemical tests can cost a patient about \$50, take up to two days to complete, and are still suspect as to the accuracy of their results.

Enter Otvos and his recent research with Nuclear Magnetic Resonance (NMR) imaging.

NMR imaging is a process based on examining the unique energy levels produced by various molecules in a magnetic field, and is commonly used in organic chemical analyses. Otvos has developed a method of examining whole blood plasma with an NMR spectrometer to produce a spectrum graph showing an accurate breakdown of the different lipoproteins in blood.

According to Otvos, the link between lipoprotein levels in blood and the NMR spectrums produced from examining blood plasma with the spectrometer was not known until an article appeared in the New England Journal of Medicine concerning a relationship between NMR spectrums of blood and cancer in tested subjects.

Otvos, who had access to an NMR spectrometer, began testing the theory, and found that the spectrums were actually showing very accurate images of lipoprotein breakdowns, not only by type (HDL, LDL, or VLDL) but several subspecies of lipoproteins within the three major groups.

The potential impact upon the health industry is

See TESTING, Page 8

## Microchip production becomes safer, cleaner

By Joe Lemanski  
Staff Writer

Since the early 1970's, when a simple computer took up an entire room, researchers have been working to improve the technology of the silicon wafer chip. One of the impediments in better silicon chip development is the difficulty of cleaning such small components.

The cleaning of chips is expensive, and uses chemicals like strong acids and bases that need to be reduced, but at N.C. State, a better cleaning method is being researched by graduate students Satish Bedge and Ken Lai of the Chemical Engineering department.

Under the direction of Dr. Henry Lamb, professor of Chemical Engineering and Dr. Gary Ruggles, professor of Electrical and Computer Engineering, Bedge and Lai are experimenting with gases as possible cleaning agents instead of the conventionally-used liquids.

Silicon chips are highly sensitive

pieces that play vital roles in the production of computers, transistors, and other electronic equipment. A typical silicon wafer is only four inches in diameter, but must undergo between two to three hundred steps to become a finished chip.

About thirty percent of these steps are cleaning steps, and when most people think of cleaning, soap and water is usually enough to do the trick. Unfortunately for the makers of silicon chips, that just will not cut it. Things that get silicon chips dirty are not as simple as dirt and dust. Some contaminating particles are often over a hundred times smaller than a millimeter.

The current method for cleaning the chips is to use a liquid solution of strong acids or bases. The problem with these liquids is that surface tension limits their ability to clean very narrow slits. Areas needing to be cleaned are often only a micrometer (1/1,000,000 of a meter) wide. Trying to remove par-

ticles of this size also requires very pure solutions. Filtering these solutions can be a difficult task. The chips are tarnished by native oxides, trace organics, and trace metallic particles.

Bedge and Lai's research involves radiating air with strong ultraviolet (UV) energy to produce ozone, which then reacts with the hydrocarbon contaminants on chips to produce simple water and carbon dioxide.

According to Lamb, there is a "double advantage" to the implementation of the research, in that it doesn't use chlorofluorocarbons or other hazardous substances like strong acids or bases, and it doesn't produce significant amounts of waste.

Founded by the National Science Foundation through the Advanced Electronics Materials Processing Center at NCSU, the project has been in progress for close to two years.

## Summer field study takes student to Mexico

By Troy Page  
Frontiers Editor

Instead of finding a job, laying out in the sun, or suffering through summer school, imagine spending the warmer months holed up in Mexico with monkeys.

Diana Ordonez, a 1991 graduate in Zoology, will be traveling to Veracruz, Mexico in late June to help deliver an address to the American Society of Primatologists concerning the endangered population of the stump-tail macaques (monkeys).

The presentation, titled "Social Ecology of the Stump-tail Macaques: A Mexican-American Co-NSF Funded Research

Experience for Undergraduates Project," was the culmination of two years of Ordonez' work that began in the summer of 1989.

Ordonez and 17 other students traveled to Catemaco, Mexico to study a small colony of stump-tail monkeys living on Tanaxpillo, a tiny island in Lake Catemaco.

Led by Professor Dennis Rasmussen of Northeastern University, students from several institutions gained valuable field research experience through their study of the monkeys.

Over the course of one month, the group shuttled back and forth to the island each day, with paper, cameras and recorders in hand to observe the diminutive primates in

their everyday habits such as grooming, feeding, mating, and other simple interaction.

According to Ordonez, the monkeys also live free in a few locations in South America, but the colony on Tanaxpillo island was brought there in 1974 for concentrated study.

Since 1989, Ordonez had been corresponding with Rasmussen and other team members in an effort to collate and redefine the data collected for the presentation this past June. Ordonez narrated a videotape on the logistics of the data collection and validation at the symposium, while other team members

See MONKEY, Page 8

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# Testing

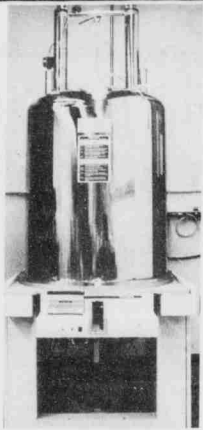
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incredible, says Ovros.

Current testing methods take a long and often suspect process, while the NMR spectrometer, combined with software developed by Ovros and his team, can produce an accurate and complete result inside of two minutes. This speed allows for the potential execution of hundreds of tests per day in one location.

Ovros also believes that NMR tests will be less costly, since the NMR spectrometer is a one-time expenditure of approximately \$250,000, while current test-reuse chemical reagents as well as other ongoing costs. A new spectrometer was recently given to Ovros' department by Siemens Medical Systems, and is a prototype for a commercially-marketable version of the device.

Ovros stated that the importance of his research was not "that we're doing anything new. We're just doing it faster, cheaper, and more accurately."



The Nuclear Magnetic Resonance Spectrometer, a gift from Siemens Medical Systems.

Chris Gentry/Staff

# NCSU graduate wins inventors competition

## Technician News Service

Yuri Yamamoto, who received a doctorate in genetics from North Carolina State University last May, was honored April 4, as one of three national winners of the BFGoodrich Collegiate Inventors Program, a collegiate outreach program of the National Invention Center.

Her advisor, Dr. Mark A. Conkling, assistant professor of genetics at NCSU, also was honored for his contributions to the research. Yamamoto will receive a \$5,000 cash award, and Conkling will receive \$2,500.

Dr. Kathryn Shafer, national outreach coordinator for the center, said the awards program recognizes successful student/advisor problem-solving relationships on projects leading to inventions that can be patented. A patent application on Yamamoto's work was filed in January.

NCSU Chancellor Larry K. Monteith said, "The accomplishments of Dr. Yamamoto and Dr.

Conkling exemplify the spirit of teamwork and excellence which exists throughout our graduate programs at N.C. State. We're very grateful to the BFGoodrich Collegiate Inventors Program and the National Invention Center for recognizing and rewarding this achievement."

Yamamoto's research, completed during three and one-half years at NCSU, involved a process for identifying a root-specific gene promoter. The research has wide agricultural applications for various aspects of genetic engineering of plants.

Her work involved isolating several DNA sequences that are expressed specifically in tobacco roots.

Yamamoto said the research may make possible the expression of genes conferring resistance to root parasites, but the expression would be limited only to the roots of the plant, and not other parts. Her research was supported by the N.C. Tobacco Foundation and the National Science Foundation.

Yamamoto, now a post-doctoral research associate at Yale University, attended NCSU as a graduate student from 1984 to May 1990. She and her husband, Akihiko, have three children and live in New Haven, Conn. She is a native of Tokyo, Japan, and has an undergraduate degree in animal science from the University of Kyoto.

The BFGoodrich Collegiate Inventors Program is a national invention competition designed to enhance student interest in scientific problem-solving and technology. The competition is administered by the National Invention Center, a non-profit institution established to build the National Inventors Hall of Fame.

The collegiate inventors program also presents at winning students' institutions a "patent-to-go workshop," which explains the patent system.

Another former NCSU student, Peter Crawford, was the winner of a "Bright Idea" award as a part of the competition. Ten such awards are given for ideas that have not yet

been put into practice. Crawford developed a design for a self-starting device for portable engines. He received a bachelor's degree in agricultural engineering from NCSU last May.

The other two student winners of the national competition were Robert Bianco of Ohio State University, who developed a process for metallurgical treatment of superalloys, and Johannes Thijsen of the Massachusetts Institute of Technology, who developed a system to detect aromatic compounds in combustion emissions.

The BFGoodrich Co., along with the BFGoodrich Foundation, is providing more than \$100,000 each year for three years, to create the national invention competition for full-time undergraduate and graduate students in U.S. colleges and universities. This is the first year of the competition.

Editor's note: This article originally appeared in a summer edition of TECHNICIAN.

# Robocarpenter: The newest generation of furniture manufacturing automation

## Technician News Service

A robot may make your next bed-room suite. Researchers in N.C. State's College of Engineering have developed a computerized manufacturing cell that could lead the way to fully-automated furniture production.

The prototype furniture-manufacturing cell uses a control computer to direct the activities of other specialized computers, each commanding a specific machine or device to produce a variety of furniture parts without human intervention.

Such flexible automation would give the furniture manufacturer a competitive edge in the fast-changing, fashion-oriented industry, says project director C. Thomas Culbreth, associate professor of industrial engineering.

Computer-controlled woodworking machines have been utilized in the industry for approximately ten years, but all have been loaded

manually with tools and materials.

Culbreth says that a computer-controlled system improves accuracy, repeatability, and consistent product quality, allowing the American manufacturer to respond to fast-changing industry needs.

Culbreth, who designed the cell, said a multi-disciplinary research team developed the project over a three-year period. Ezat T. Sami and

Russell E. King, both professors of industrial engineering at NCSU, were responsible for the robotics applications design and the cell's control software, respectively.

Tim Gurganus, an engineering graduate student, was responsible for integrating the digital circuit systems of the various computer controls employed in the work cell.

"We knew how each worked inde-

pendently," said Gurganus, "but the challenge was to get them to exchange information and work together."

Gurganus is basing his master's thesis on the project, noting that it was a "unique opportunity to take theory and turn it into a hands-on project."

Jeff Joines, a graduate student in engineering, developed the software

that allows communication among the computers in the work cell.

Culbreth notes that government and industry alike are interested in the project's potential, having contributed the funds necessary for its development.

Culbreth believes that continued collaboration will allow expansion of the research to advanced manufacturing systems for woodworking,

improving the long-term viability of the furniture industry in North Carolina.

"The best furniture in the world is made in the U.S., and flexible automation could further secure a leading position," said Culbreth.

Editor's note: This article originally appeared in a summer edition of TECHNICIAN.

# Monkey

Continued from Page 7

presented other findings and methods.

According to Ordenez, the stump-tail research is only one of many projects in field research sponsored by the School for Field Studies (SFS), an intercollegiate program designed to "orient undergraduates in research field studies."

The projects sponsored by the SFS cover various environmental issues, funded primarily by the National Science Foundation. Ordenez was involved in another SFS project in the summer of 1990 observing harbor seals in Alaska, but has not been part of the follow up efforts for that study, planning to continue working with primates after graduation if possible.

Editor's note: This article originally appeared in a summer edition of TECHNICIAN.

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| GATES    | JIB     | OSA   |
| OPAL     | PAR     | BREW  |
| ASK      | DAW     | PLEAS |
| LEEWAY   | ALE     |       |
| ERA      | MENAGE  |       |
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## Kellogg Foundation awards university \$3.57 million to broaden role of community colleges

By Chrissy Williams  
and Tracy Neal  
Staff Writers

The W.K. Kellogg Foundation recently awarded N.C. State University \$3.57 million to develop a project broadening the role of community colleges in several eastern states.

The Kellogg Foundation is a private foundation, established in 1930, which provides seed money to organizations that have iden-

tified problems and designed programs aimed at solutions.

Chancellor Larry K. Monteith agrees the program is a good idea and said he also feels the university will be giving something back to the community that supports it.

"The project's goal is especially appropriate to our mission as a land-grant university," Monteith said.

The project will involve 114 community colleges in North Carolina, South Carolina,

Virginia and Maryland. Community colleges in these states, as well as NCSU, have donated additional funds to the project, bringing the total to almost \$6 million.

The program's purpose will be to help community college administrators, trustees and community leaders to identify and address community issues.

Economic development, illiteracy, unemployment, health-care services and the environment are among those issues that will be addressed in the three-year project.

The program will have five components: all based on leadership, education and communication aimed at college administrators, faculty members and local governing boards.

Dr. Edgar J. Boone, head of adult and community college education at NCSU and director of the new project, estimates that 1000 community college administrators and 1200 governing officials will be involved.

He believes it will encourage the administrators to reconsider the purpose of commu-

nity colleges and become more involved with community problems.

"We're not starting from scratch on this project. We will be drawing on many courses already in place here at N.C. State," Boone said.

Robert W. Scott, president of the N.C. Department of Community Colleges, is excited about the project.

"This is a tremendous addition to the graduate program that provides our system's leadership."

## Four Pack swimmers gain international experience during summer competitions in Europe, Asia

Continued from Page 4

In his three years on the Wolfpack team, he made large drops in his times — which he credits to the coaching staff.

"Nick has gotten more coachable each year he has been here," said Easterling. "He has developed into a good sprinter and a leader."

To cap off his college swimming career last year, as a team captain, he qualified for the NCAA Championships in the 50 yard freestyle and swam a leg on the 200 yard freestyle relay at the meet in Austin, Texas.

Although his eligibility is up, he will continue to train with the team, aspiring for the Olympics. His next big meet will be in the U.S. Open, in December, where he hopes to break two Greek National records in the 50 and 100 freestyle. In addition, Paleocrosis plans to graduate in December and attend graduate school.

Another fifth-year senior is Adam Fitzgerald from Soundend-on-the-sea,

England. Fitzgerald represented his country in the World University Games in Sheffield, England.

He swam the 100 meter breaststroke (15th) and a leg on the British 400 meter medley relay team (seventh). Fitzgerald was the previous British National Junior Olympic Champion in the 100 meter and 200 meter breaststroke in the 17-18 age group. He also held the British National record for the 200 breaststroke.

In his four years of swimming at State, he was Academic All-American each year, and after his junior year, he was ranked number one in the nation with the highest GPA for any man on the list. The mathematics major has maintained a 4.0 GPA all four years he has been here, while taking some graduate level courses.

At last year's All Sport's Banquet, Fitzgerald was presented with the "Most Outstanding Senior Male Scholarship Athlete" award.

In the pool, he traveled to the NCAA

Championships his freshman, sophomore, and junior years as a member of the 200 and 400 yard medley relays. His highest individual ACC finish was second place in the 100 and 200 yard breast. Like Paleocrosis, he will continue to train with the team this year.

"I will train for the British Olympic Trials, but it will be hard to make the team because I will be competing against two former Olympic medalists for spots on the team," explained Fitzgerald.

England has had several world class breaststrokers, including former Pack swimmer Duncan Goodhue, and presently Adrian Moorehouse and Nick Gillingham. Fitzgerald's ultimate career goal is to make the English "A" team.

Like Paleocrosis, Easterling believes Fitzgerald's best swimming is ahead of him. He will graduate in December and should receive the honor of summa cum laude.

Pack diver Agnes Gerlach knows what it

takes to get to the top. She represented her country, Hungary, in the 1988 Olympics in Seoul, Korea, where she placed 25th on the three-meter springboard.

The sophomore from Budapest began competing internationally in 1985 when she first attended the European Championships and placed seventh in the three meter.

In 1986, she went to the World Championships and placed 11th. Since then she has annually traveled to international diving meets. This summer she placed 11th on the three meter at the European Championships.

In Gerlach's first season at State last year, she took top diving honors at the ACC Championships as the "Diver of the Year" after winning the three meter and placing second in the one meter. She also qualified for the NCAA Championships and was the only woman to represent State at the meet in Indianapolis.

As Gerlach trains this year, she will be focusing on the Olympics and NCAA

championships. She has set goals to place in the top eight at the NAAs and top 12 at the Olympics in Barcelona, Spain.

She explains how NCAA and international competition are different: "At first, it was hard to get used to the difference in scores. A score that is bad in one meet can be good in another."

In addition, she has set goals for herself to perform well in the classroom as a communications major.

These athletes are good role models, for not only swimmers, but other athletes who strive to reach the levels these four have. As international students, they have overcome the difficulties of new and different cultures and performed well in the classroom. As athletes, they have brought international competition to State.

## Wolfpack to host classic

Continued from Page 3

freshman Kathy Koss seeing some playing time.

"I don't think illnesses and injury will have that big of an impact," Keranen said. "The team is just real strong and real evenly skilled."

Anyway, as Keranen points out, after learning a new style emphasizing total team involvement during a long pre-season, the State players just want to play a game.

"After emphasizing the team concept so much the last three weeks, I think everyone's excited to try it out in a game," Keranen said. "We want to take our frustrations out on somebody."

State opens its 1991 season Saturday at 2 p.m. at Method Road Stadium against Villanova. State will play Rutgers Sunday, also at 2 p.m. A battle between 12th-ranked Duke and Villanova will precede the State game Sunday at noon. Admission is free for students presenting a valid student All Campus card.

## Runners hope for ACC title

Continued from Page 4

men. McHenry came on strong at the end of last season, running fourth for State at the district and national meets. The only other runner with collegiate experience is sophomore Diana Hill.

The freshman class is led by "two of the top prospects in the nation," according to Geiger. Kathy Knabb from Pennsylvania and Jen Norton from New York. Knabb finished in the top 10 at the national cross country championships last year, and she and Norton are joined by Ohio natives Kendra Huber and Michelle Lyons.

"We're short on numbers and experience," Geiger said. "Obviously we have to have help from our younger runners if we are to do well. Monica McHenry has progressed extremely well since she's been at State and should be a big factor this year. We are also likely to have a freshman playing a major role before the season is over."

The goals and the success of the program have changed little from year to year, even as the competition in the ACC has gotten tougher. Clemson is ranked in preseason top five, and Virginia and UNC-Chapel Hill also could be strong.

"We've helped develop the ACC as a strong conference, and we intend to stay on top," Geiger said. "We're good enough up front to run with anyone in the country, and I have a lot of faith in the rest of the team as well."

The cross country season opens Sept. 14 at the UNC-Wilmington Invitational.

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# Sheridan

Continued from Page 3

guard Ricky Logo, inside linebackers Billy Ray Haynes and David Merritt and new right tackle sophomore John Atkins, should spearhead the effort to stop the Hokies running game.

With the defense retooling, State's strength appears to be, for the first time in years, its offense. Junior quarterback Terry Jordan, the MVP of the 1990 All American Bowl, appears set to challenge a good Hokie defense with a group of six receivers headlined by senior Charles Davenport, Reggie Lawrence and impressive sophomore Ray Griffin.

Up front, a solid offensive line will strive to protect Jordan while opening holes for the running game against Tech's odd wide-tackle six alignment. 1990 starting tackle Scott Woods, guards Clyde Hawley and Mike Gee, 1989 starting senior tackle Scott Adell and sophomore center Todd Ward should form the starting lineup against the Hokies. Adell is returning after missing all of 1990 with a shoulder injury.

A talented and deep group of tailbacks will look to take advantage of the blocking up front Saturday. Junior Anthony Barbour, returning after missing last season with injuries, is the likely starter and will split time with sophomore Gary

Downs. Junior Aubrey Shaw, voted most valuable offensive back last year, should also contribute. On third down, expect to see Chris Williams, who is returning after missing last season with ankle calcification.

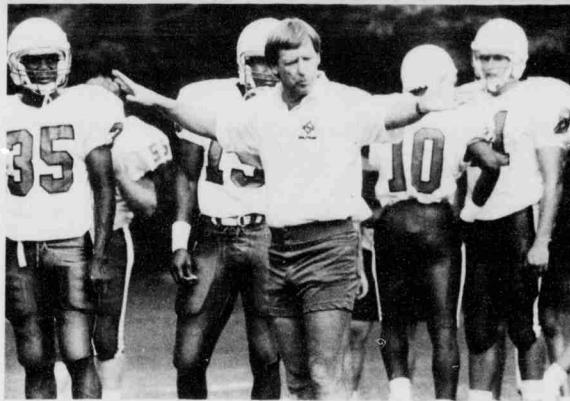
Injuries to junior Gary Manior and sophomores Ledel George and Chris Cotton may force senior tight end Todd Harrison, an all-American candidate, to move to the fullback position. Manior will definitely miss the Tech game and perhaps the Kent State contest next week after having knee surgery last week. Cotton and George are questionable after missing practice this week with shoulder and knee injuries respectively.

Shaw may also see time at fullback. Look for senior Alex Nicholson to replace Harrison at tight end if necessary.

"The offensive may be the strongest, top to bottom, that we've had since I've been here," Sheridan said. "From a depth standpoint and an experience standpoint we're in the best shape we've been in at the start of a season and I hope that will translate into points."

In the end, the difference may be the motivation factor, and this year State has the edge.

"In athletics, when you've beaten someone regularly, as coaches, you worry about your team being. Are they really taking this thing seriously? We don't have that problem, obviously", Sheridan said.



Ann Kenion/Staff

NCSU football coach Dick Sheridan will be leading the Pack in its opener against Virginia Tech.

# Bowlers to hold tryouts

Technician News Services

Team tryouts for the N.C. State University men and women's bowling clubs will take place Saturday at Buffalo Lanes North in Raleigh. Check-in time will be at 12:45 p.m.

Competition for the men's team should be intense, according to team spokesman Pat Nolan. Six members return from the nationally ranked 1990-91 squad and one from the 1989-90 team, according to Nolan. Four highly touted newcomers also join the ranks. The men have won six consecutive division finals and reached six consecutive national semi-finals.

Tryouts for the women's squad should be wide open, with only two members returning. Nolan requests that any interested female bowlers try out. The women are also six-time defending divisional champions.

The women's tryout will be a one-day affair Saturday, while the men will hold a four-day tryout, Saturday and Sunday, this weekend and next weekend.

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A paper that is entirely the product of the student body becomes at once the official organ through which the thoughts, the activities and in fact the very life of the campus are registered. College life without its journal is bleak.

Technician, vol. 1, no. 1, February 1, 1920

Editorials

Some people make time

Homework, reading assignments, papers, projects, midterms, finals, roommates, family, friends, finance, jobs, love, hate, and romance. Does this list sound familiar? It should. This concerns create and control the life of the average college students. But this list doesn't leave time for much else.

Nevertheless, some students make the time to do more. They find the time to care actively. Many of us care passively. We feel sympathy for the unfortunate. We discuss various causes. We want to help. We might even mail a check. We might sign a petition. We just might sacrifice the five or 10 minutes necessary to do so.

But some people do more. Volunteers lead busy lives just like the rest of us. They worry about money and grades, their appearances and their friends. But they worry about more. And they do more. Volunteers organize fund raisers. They collect signatures. They publicize their causes. They provide information. They offer seminars. They telephone. They visit.

They make an important difference. Volunteers donate time and effort — and a large portion of both. They sacrifice something in their own lives to actively care about others' lives. Volunteers provide a service free of charge. They help their own particular cause, but they also enable the rest of us to make a difference without having to drastically change our own lives.

Wonderful examples of caring actively exist right here on campus. For example, there is a massive Greek effort to find bone marrow donors for N.C. State University student, Keith Little. A second organization, "The Friends of Lisa Britt," holds fund raisers to finance a heart transplant for the veterinary student. We should give these and all other volunteers respect, support, and applause for making the time to make a difference.

Because of these active care givers, we have an address to mail our checks to. We have petitions to sign. We are well informed. In a nutshell, we can all make a small change in someone's life because volunteers make a big change in their own lives. Volunteers let us actively care, let us help others and feel good about ourselves, without sacrificing time.

But these volunteers do find the time, make the time and give the time to care actively. So let's give a big hand for helping hands. We do what we can.

Be true to your school

It's great that Chancellor Monteith and Student Body President Ed Stack are interested in improving the image of the university by encouraging students not to be a part of the Brent Road parties. These parties are quickly earning the university an undeserved "party school" image.

While we all recognize that college students party, the problem arises when parties get out of hand, as the Brent Road parties often do. It is time for someone to step in and start to be concerned about how the university is perceived. N.C. State University has gone too long without that influence.

It's time someone realized that every action like this reduces the value of our degrees. Our leaders have recognized that fact. Now it's time that our students did the same thing. We may want those same Raleigh residents we have bothered to hire us one day. But they sure won't if they remember the way we treated them as university neighbors.

Who is going to hire a someone from a university where drunken students consistently block roadways and destroy property? Probably not anyone you want to work for. Also, a word of caution: Raleigh's finest as well as NCSU's Public Safety are looking to make arrests for troublesome parties. So don't be stupid. Avoid getting arrested. Party somewhere else.

Quote of the Day

"The biggest sin is sitting on your ass."

-Florynce Kennedy



Columns

Brent Road parties ruin Pack image

An open letter to NCSU students and residents of Brent Road:

About two weeks ago, parties at residences on Brent Road evolved into a large gathering which occupied the street and yards of area residents. This large gathering completely blocked vehicular traffic on the street, generated excessive noise and litter for the neighborhood, damaged property, and resulted in a number of citations for underage use of alcoholic beverages. Indications that these activities may continue into this year have generated a high level of concern that we wish to bring to your attention. These events have been publicized by the local media and brought to the attention of the Raleigh City Council and other city officials. The general perception has developed that

Larry Monteith

Guest Columnist

all of the participants are N.C. State University students. Even though some who participate are not NCSU students and even though the area is not adjacent to NCSU property, these events still project a very negative image of the University and, in particular, the NCSU student body. We write this letter to appeal to your pride in NCSU and the NCSU student body. Unlawful and disruptive behavior, as mentioned above, damages community relations and diminishes the respect of the community for you as responsible NCSU

students. It can also be embarrassing and expensive to be held accountable in the courts or the campus judicial system. Raleigh City Police have been instructed to enforce city ordinances in the Brent Road area and have requested assistance from NCSU Public Safety. Students who are arrested will be held accountable for their actions. We appeal to your pride and sense of decency to behave as thoughtful and considerate neighbors and to respond to recent events in ways that will eliminate this problem. Thank You.

Larry K. Monteith, Chancellor Ed Stack, Student Body President

Private property is key to stability

With coup plotters in jail, the Communist Party banned in much of the crumbling union and Mikhail Gorbachev's power seriously diminished, the pace of reform in the Soviet Union is bound to quicken.

No longer will those in power try to merely repress socialism. The lesson of the Gorbachev experiment can only be as follows: The shift from a planned economy to one driven by market forces can take place only if property rights are fully transferable and legally protected. After all, it was Gorbachev's attempt to create "socialism with a human face" and his halting half-steps toward market reform that left the Soviet economic system fundamentally unchanged through six years of Perestroika.

Planned price increases designed to bring supply and demand forces into equilibrium while keeping the factors of production in government hands have only created chaos. Under the present system, wages for managers and workers, like other prices, are set by state planning agencies and have little or nothing to do with one's productivity or the value of one's labor.

And because both financial losses and profits belong to the government, not to workers or managers, there is little incentive for factories to streamline production or to use materials more efficiently.

Paul Daniels

Opinion Columnist

The scarcity of consumer goods is largely due to the fact that goods and services are produced not to satisfy consumer needs but to meet government quotas. Demands for shoes and raincoats, for example, are often not met simply because the quantities of shoes and raincoats produced were insufficient or because bureaucrats decided factories would produce tractors and automobiles instead. Reform-minded Soviets and their cohorts at Harvard have forgotten the lessons of history.

After all, it was centralized planning and control of the economy that left the world an economic basketcase east of the Danube. And replacing one five-year plan with another in the name of reform only allows self-interested bureaucrats to control the pace of change.

Private property defies bureaucratic management because it takes the power of economic decision making out of the hands of a few government officials and puts it

into the hands of individuals, each with his or her own tastes, preferences and wants. If the Soviet Union allows transferable private property, exchange markets will quickly spring up. Prices for goods in these markets would reflect scarcities and send signals to both consumers and producers. Market prices would then ensure that resources such as skilled workers, capital and raw materials are more efficiently used. Under these conditions, the availability of consumer goods in the Soviet Union would increase dramatically and prices would stabilize at levels much lower than the ones these goods now fetch on the black market.

In addition to the greater efficiency and higher standard of living that stem from private ownership, a large property-owning class is necessary for political stability. To help smooth the transition to democracy, it is important that the vast majority of citizens are enfranchised through property ownership and have a stake in the future.

And in this region that has not known democracy for more than half a century and has historically been ravaged by ethnic violence, stability is the imperative du jour.

Paul Daniels is a graduate student studying philosophy.

Volunteers do time on the brickyard

With great enthusiasm I respond to T. Shawn Long's most recent opinion column with a suggestion for action. Long challenged us to "just do something" to help others.

On Sept. 11, from 11 a.m. until 2:30 p.m., on the Brickyard, N.C. State University Volunteer Services is sponsoring "The Privilege of Serving," a volunteer awareness day.

There you will learn exactly what that "something" is. More than 50 representatives from local nonprofit organizations will be available to answer questions and provide information about volunteer positions within their agencies.

The American Cancer Society, Wake Medical Center, the Peace Corps and the Raleigh Rescue Mission are a few of the participating agencies. Others include Building Together, and inner-city ministry, Habitat for Humanity and the N.C. Library for the Blind and Physically Handicapped. Several nursing homes and environmental agencies will be represented.

Would you enjoy working with the homeless, children, Mexican immigrants or prison inmates? Join us on the Brickyard to find out what role you can play! Not only does service make a difference in the lives of others, but primarily, we who serve are the ones influenced and changed.

Technician Campus Forum

Volunteering offers you opportunities for job experience, vocational exploration, new friendships and community involvement. The professional contacts you make during volunteer experiences provide respected references when you begin your job hunt. Opportunities for leadership and skill development are virtually limitless in volunteer positions. Please mark your calendar so you won't miss "The Privilege of Serving." See you on the Brickyard Wednesday, Sept. 11.

CAROLYN L. COLEY Graduate Student and Volunteer Services Coordinator

I'd like to commend T. Shawn Long on his article addressing volunteering (Aug. 28). I completely agree that everything you do matters, from giving blood to donating money to volunteering time.

Since school has been in session this fall, numerous opportunities to give have appeared in the paper, all of which are one-time deals involving minimal time and effort on your part. The Raleigh Plasma Center actually pays

you to donate blood. The Red Cross Center on Peachtree Lane accepts blood donations throughout normal working hours. Also, they accept pheresis donations, which are platelets or white blood cells, during limited hours. This is a free way to be placed on the National Marrow Donor Program.

It works. I've done it. Speaking of the NMPD, a fellow student is currently in need of a marrow transplant. Her life depends on it. A meeting was held Sept. 3 at 7 p.m. in the Student Center concerning the topic. If you missed the meeting, you can still become involved by calling Donna Carter.

Four other ways of serving this month have surfaced: Sept. 11 is Volunteer Day. "The Privilege of Serving," on the Brickyard. The weekend of Sept. 20-21 is the collection of mixed-paper recycling at the Fairgrounds. Also on 21 Sept. is the nationwide Big Sweep, in which volunteers clean up local waterways. And from Sept. 26-29, the Senior Games State Finals, Olympic-style events for senior citizens, will be in Raleigh.

In addition, Campus Friend's pairs American students with foreign or ethnic ones to share cultures on a one-on-one basis. Coors prints a pamphlet called Volunteers Under 30, listing various nationwide volunteer agencies.

And you can always recycle: the dorms on

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Technician (ISSN 457-0510) is the official student newspaper of N.C. State and is published every Monday, Wednesday and Friday throughout the academic year from August through May except during scheduled holiday and examination periods. The summer edition is published every Wednesday from May through August. Offices are located in Suite 123 of the University Student Center Annex, E. Gates Avenue, Raleigh, NC 27607. Mailing address is Box 8608, Raleigh, NC 27695-8608. Subscriptions cost \$45 per year. Printed by Hinton Press, Mebane, NC. POSTMASTER: Send any address changes to Technician, Box 8608, Raleigh, NC 27695-8608.

Columns

# U.S. has same core problems

As we watched the transformation of the Soviet political system last week, the Russian peoples' lack of confidence in their leadership was a recurring theme.

Clearly, the people cannot be blamed for their distrust. Any system which has failed as miserably as communism has would tend to shake the faith of even its staunchest supporters. The Communist bureaucracy is at fault. And in this regard, I'm afraid the United States differs very little from the Soviet Union.

The declining opinion toward our elected officials is nothing new. Policy failures such as Vietnam, deregulation, public education, drugs, violent crime and embarrassing Third World alliances are inherent in a democracy where compromising does not always yield the best course of action. I think policy mistakes such as these can be forgiven as long as they were based on substantial principle. But all too often, public opinion and re-election concerns guide U.S. policy. An unpopular or politically daring stance on an issue almost inevitably ends in a loss at the polls even if the stance was a result of genuine,

Brent Poteat



Opinion Columnist

deliberate consideration. Many politicians defend this position by claiming that if they fail to react to the popular consensus, they will be voted out of office. And if voted out, they can't represent the genuine needs of their constituency to an otherwise uncaring Congress.

That is tantamount to saying, if I don't relinquish my values, I won't be able to retain them. I fear the most damage done to our political credibility has been caused by our leader's failure to steadfastly stand by their principles. For example, as repulsive and unethical as the Watergate break-ins were, it was the Nixon administration's relentless efforts to conceal them that ultimately ended his presidency in disgrace.

The same goes for the Iran-contra scandal under Reagan. After authorizing an arms for hostages

deal with Iran, Reagan blatantly lied to the public, then claimed forgetfulness to Congress. The reprisals from that debacle have yet to end.

It is indeed a tragedy when a representative democracy like ours becomes conditioned to distrust.

If you visit Washington D.C., make it a point to tour the Declaration of Independence, the Constitution and the Bill of Rights. These and the personal letters written among our founding fathers give valuable insight into the high ideals they held in earnest.

Washington, Jefferson and Franklin were committed to the principles of liberty, justice and equality. They believed in a democratic ideal and created a government which preserved and protected individual human rights.

The erosion of faith in our leadership that we've unfortunately come to know and accept is the greatest tragedy we have wrought on ourselves and the authors of our independence.

*Brent Poteat is a graduate student majoring in philosophy and political science.*

# Voices from the Brickyard

Editor's note: This is a feature to give students and faculty a chance to respond to current issues. A Technician reporter and photographer will randomly select students and faculty members to appear each week.

**Q1** How do you feel about the possible policy that an in-state student must graduate in four years or pay out-of-state tuition?

**Q2** How do you feel about the inmates in North Carolina state prisons who receive a free college education?

“



Rusly Walker Sr. Zoology

**A1** I don't think it should be that way. It's hard to graduate in four years.

**A2** I think it's good. A lot of people in prison haven't had a lot of breaks. Thus will put them in the right direction.



Gina Batten So. CE

**A1** I don't think it's fair. Some majors, like engineering, can't graduate in four years. It's just not possible.

**A2** Again, I don't think it's fair. If you've done something bad enough to be in prison, you don't deserve any breaks. I'm not in prison, and I don't get a free education.



Tre Scott Jr. Biology

**A1** No! Four years limits the student and the scope of the knowledge of the graduates that we send away.

**A2** I think it's good if we provide them with a basic education. I want them to be literate, but I don't want to provide an incentive to go to prison.



Tara Parker Jr. Accounting

**A1** It wouldn't be too fair. If they lessen curriculum requirements, it would then be possible to graduate in four years.

**A2** I don't think that's too fair. If we have to pay and we haven't done anything wrong, they should pay.

”



Hung Dang Sr. EE

**A1** It sounds unfair. Some students have to co-op or work for financial reasons and the only way they can do that is in five years.

**A2** I wish I could! They shouldn't get a free education, but they should get some help. They should do some work to get an education.



Julie Allen Math Dept.

**A1** It's terrible. Some students begin college not knowing what they want to do and they would be penalized for changing their minds.

**A2** I'm glad they can be educated because education will help them succeed in society. However, it is a huge expenditure and we need to consider whether we want to spend money on people who have harmed others.

## Forum

Continued from Page 12

West Campus collect aluminum, glass, and newspapers. Athens Drive High School on Avert Ferry Road collects plastic containers such as 2-liter bottles and milk jugs. Raleigh Curbside Recycling picks up various items from nearby neighborhoods.

There are a variety of things easily accessible. Donate money to the Lisa Britt fund. Give blood. Visit a hospital or retirement home. Help out at one of many of the aforementioned activities. Or simply walk around campus picking up recyclables, crushed beer cans and bottles left under cars in a parking lot, or garbage.

It's so easy and can mean so much. Please come out and help. I'll be there.

MICHI VOITA Senior, Forestry

## High textbook prices prevail

High textbook prices prevail despite brisk competition in the U.S. market. By price, by content, and by timeliness, many different texts compete for selection.

Part of the high price may be the cost of diversity, but given competitive conditions, this part also reflects buyers' valuations of being able to choose more than a "Model T" text. Otherwise, a publisher could launch a less costly, seldom-revised plain text at a lower price.

She would earn economic profits until rivals followed suit.

The visible hand of the sovereign may account for another part of the high price of a book in the United

States. The 1891 Copyright Act has insulated U.S. book manufacturers from foreign competitors, and U.S. students, from lower prices. Secure copyright protection in the large U.S. market practically requires domestic book production.

What domestic book producers gain, students lose, and more.

Adam Smith wrote, "To hurt in any degree the interest of any one order of citizens, for no other purpose but to promote that of some other, is evidently contrary to that justice and equality of treatment which the sovereign owes to all... his subjects."

See your congressman.

Meanwhile, let the buyer beware. A student may choose between sections offered by a "Textbook Prof.," and "Older Edition Prof.," and a "Copyshop Prof." Book prices for each are \$50, \$25, \$10, respectively. "CSP" could have the latest word, and his own text may be published next year, maybe not. "OEP" promises to update the text in class, or let you update in the library, as needed.

The \$50 text required by "TBP" has been adopted by many scholarly colleagues across the country for their classes.

The publisher is investing in bringing out a new edition next year. How do you choose?

DAVID BALL Department of Economics

## Ma Bell in cahoots with Housing

When we elders of N.C. State University notice disturbing trends creeping in over the years, we sometimes feel it is our duty to point them out. Otherwise they might slip by unnoticed and unchallenged.

Long ago, when I first moved to campus in 1983, each suite or room in long halls had basic phone service provided by NCSU.

During the next several years, we have been through several permutations which have led to the current configuration — every room has a connection, and if you want yours activated, you pay Ma Bell a connection fee, deposit, and a monthly service fee. And you pay again every year to get it reconnected.

This gets expensive for college students, so it has been fairly common for neighbors to share a phone by running a line between two rooms which saves about \$200 each year!

But not anymore! Residents of the Alexander International Residence Hall who were sharing phones were given a letter by Housing stating they must remove their shared lines — the lines were suddenly declared by Housing to be fire hazards even though they have passed Public Safety's room inspections for years.

Unless this is just a plot to increase the already high phone bills of international students, be on the look-out for this new rule to hit your dorm.

I hope this warning will give you time to defend your rights.

Alexander residents were only given the Labor Day weekend to comply.

ROBERT ALLESON JR. Graduate Student, Computer Science



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