

TECHNICIAN

MONDAY
APRIL
28
2003

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Raleigh, North Carolina

IN THE KNOW

WORLD

Public places closed in Beijing

In an effort to combat the spread of SARS in China, the Beijing government ordered the temporary closure of public places on Sunday.

Cinemas and libraries have been closed, Catholic churches have cancelled masses and many citizens are choosing to ride bikes through the city to avoid public transportation.

Beijing officials are in the process of securing a 98-acre plot of land in the city's suburbs for quarantine use.

The Chinese Ministry of Health reported 2,914 cases of SARS on the mainland on Saturday, and the World Health Organization reported 4,836 cases worldwide with 293 deaths.

South Korea urges North to give up nuclear arms

After communist North Korea told U.S. officials it has atomic weapons and the ability to create more, South Korea urged North Korea Sunday to destroy them.

South Korean Unification Minister Jeong Se-hyun said the countries' 1991 agreement to be nuclear-free was a "cornerstone" of the relationship between them, and North Korea's violation of this declaration poses a threat.

The North's state-run news agency issued a statement saying, "The DPRK [North Korea] will be left with no option but to do everything to defend itself unless the U.S. legally guarantees no use of arms including nukes against the DPRK."

NATION

Rumsfeld, Franks meet with Middle East leaders

U.S. Defense Secretary Donald Rumsfeld met Sunday with leaders from the United Arab Emirates as part of his Middle East tour to brief leaders and thank troops.

Also taking part in the talks is U.S. Army General Tommy Franks. Franks, who was head of the war in Iraq, said Iraq's former deputy prime minister Tariq Aziz has been answering questions since he was taken into custody Thursday, but officials cannot tell if his responses are truthful or not. Franks also said there is still no evidence that Iraqi leader Saddam Hussein is alive, and his fate remains unknown.

Later this week, Rumsfeld will stop in Afghanistan and Iraq.

Jeb Bush thanks NRA

Florida Governor Jeb Bush thanked the National Rifle Association in a speech Saturday for the organization's help in electing his brother, George W. Bush, U.S. president in the 2000 election.

Jeb Bush was the keynote speaker for the NRA's annual convention, and during his speech he highlighted exit poll statistics saying 48 percent of voters were gun owners.

"Were it not for your active involvement, it's safe to say my brother would not be president of the United States," said Bush, later adding, "The sound of our guns is the sound of freedom."

Also at the conference, Charlton Heston's term as the organization's president ended with his final appearance as NRA head. Former Iowa Republican Party Chairman Kayne Robinson takes over the president's duties.

STATE

Roanoke Rapids textile mill to close

The Roanoke Rapids textile mill operated by WestPoint Stevens Inc., which manufactures towels, will close this summer, laying off 320 workers.

The plant is known as a historical icon because it is the site of the first major unionized textile mill victory in the South, and it was the inspiration for the 1979 film "Norma Rae," for which Sally Field won an Oscar.

"If there was ever an icon of that industry, this was it," said Harris Raynor of the Union of Needletrades, Industrial and Technical Employees in a report by the News and Observer.

Roanoke Rapids, which is 90 miles north of Raleigh on the Virginia border, is a town of 17,000, and "We had at one time approximately 5,000 people employed in mill companies," said Mayor D.N. Beale.

Local boy in international custody battle

Keene Carrasco, a seven-year-old Honduran boy, has been involved in a custody battle for the past year about whether he belongs in a Raleigh golf-course community with a foster father or in Comayagua, Honduras.

Kenne's father, Jorge Carrasco, was deported to Honduras after pleading guilty to theft, and he is now trying to get his child back. A Wake County judge ruled that Keene, who was born in the United States, and is a citizen, should go to Honduras after completing the first grade in May.

Many Hondurans, including the government and First Lady Aguis Ocasna de Maduro, have been helping Jorge Carrasco regain custody of his child.



Flanked by students on all sides, Wozniak talks to and answers each and every question posed to him after his speech, Saturday at the McKimmon center.

The Wisdom of Woz

Story and photos by Thushan Amarasiwardena

It all started with two guys tinkering in a small garage located in what would become California's Silicon Valley some twenty odd years ago. Little did they know their actions would spark a change that affected the world and the lives of billions - placing computers on desktops everywhere and jumpstarting an entire industry.

Those two men, Steve Wozniak and Steve Jobs, co-founders of Apple Computer, created and then popularized the world's first readymade personal computer, the Apple I, and its successor, the Apple II.

Wozniak visited N.C. State Saturday for the first time, touring classes and campus before addressing a crowd of nearly 500 students, faculty and administrators at the McKimmon Center.

His speech was part of a weekend-long visit sponsored by the NCSU PackMUG, a Macintosh users group, along with other campus organizations.

After the speech, Wozniak said he was "unbelievably impressed by the demos that I saw in the computer area today," and found the campus and students genuinely likable.

Wozniak fielded questions from the audience on a variety of topics and was flocked by students eager to greet the man and enthusiastically tell him of their projects.

Sophomore computer science major Wyatt Tall, waiting to meet Wozniak, said he enjoyed the speech. "I think it was important to be here," he said, while pondering "if someone like him may ever show up again ... he was in the right place at the right time."

Many in the audience expressed the gravity of being in the presence of a man who so shook an industry and a world. Mathew Jordan, a junior in meteorology, said that Wozniak is one who can inspire and "show people that one can rise up above the rest."

From his bear-like frame, Wozniak began talking about his life and

accomplishments, which still surprise him to this day.

"I did what I did — why are people coming to shake my hand?" Wozniak said.

It was reading a book that ignited Wozniak along the path that led to the eventual conception of the first personal computer. In fifth-grade, he came across a novel, "SOS at Midnight," about a young ham radio operator who was kidnapped but able to devise a radio system at his captors' hideout to relay a signal back to his friends to save him.

At the end of the book the author left a note to his readers; anyone can become a ham radio operator. The next day, Wozniak summarily informed his friends that he would soon become a ham radio operator.

His father, an electrical engineer with Lockheed, helped him learn the theory and science behind radio and by sixth-grade Wozniak had earned his operator's license. This window to the world — ham radio — left Wozniak dumbfounded. "It was pre-internet, yet I could talk to anyone, any-

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Cyber Defense Lab opens on campus

Centennial Campus opened the Cyber Defense Lab on Thursday, housing 10 percent of the nation's computer security specialists.

Jordan Cooke
Staff Reporter

When your daily routines become daunting, just think about being among an elite group of approximately 100 people helping to protect the security of an entire nation and the more than 290 million people within it.

Approximately one-tenth of these people — computer security specialists whose job is to research and prevent attacks against our nation's computer networks and infrastructure — are housed at N.C. State.

And with Thursday's opening of a new research unit called the Cyber Defense Lab, NCSU is helping to write a new page in the book of computer security.

"[It] puts the university at the forefront of cyber protection," said William Tharpe, head of the computer science department.

He noted that, out of roughly 100 computer security specialists around the nation, about 10 of them have set up residence at NCSU.

But the lab will not just be a milestone for the university. It is part of a larger, collaborative effort by the federal government, homeland security agencies and the nation's top research universities to make sure that cyber crimes are prevented. A crucial role in a post-9/11 society that has the eyes of U.S. intelligence and security agencies constantly vigilant of terrorist threats.

The new lab, located on Centennial Campus, is equipped to house close to 30 graduate students along with their faculty advisors in addition to the equipment needed to perform cyberdefense research.

Douglas Reeves, S. Purushothama Iyer and Peng Ning — three graduate professors from the computer science department — and roughly 20 of their graduate students will move into the lab.

In addition, Ting Yu, a graduate of the University of Illinois will also join the team of researchers here at NCSU with an as yet unspecified number of his own graduate students.

"This is not a traditional lab in the sense that many students might think of," said Reeves.

Although those working in the lab will obviously have computers set up for their work, the computer lab will not be accessible to the general student body. For the sake of maintaining a controlled research environment, access will be generally limited to the research team.

The exception to that rule, according to Reeves, is that students within the computer science curriculum would be allowed to use some of the equipment in the lab to conduct controlled experiments on security-related projects.

Before the creation of the lab, each of the professors and their students were scattered on different parts of NCSU's campus conducting their research. This new facility will allow them to work more closely.

Reeves points out, however, that even though there is a limited number of faculty members and students moving to the facility, they will still work with other faculty from the computer science department who are also doing research in computer security.

The Cyber Defense Lab is a university-affiliated research unit, but it does

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Searching for a sustainable future

Editor's Note: The following is the first of a three-part series explaining the situations concerning land on Centennial Campus and its future, written by Christian Dehner, a senior in environmental science, who recently won the N.C. State Sustainability Essay Contest. Part one will examine the history and biology of the land.

Christian Dehner
Guest Reporter

Think of a hot and humid day on campus when the red brick absorbs and re-emits the heat of the sun. Because brick is the campus's primary building and paving material, the ambient temperature on campus measurably increases. Now, be relieved to know that there is a place on campus where trees provide a full canopy and serve to shade and cool the ground underneath.

This place is an approximately 70-acre tract of hardwood forest on the southwest shore and ridge tops of Lake Raleigh on Centennial Campus.

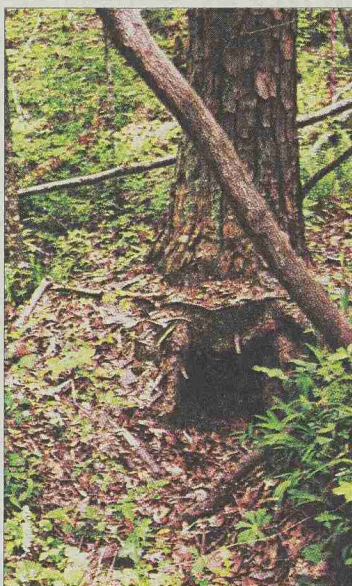
Its preservation as an educational reserve will help N.C. State make great strides toward its commitment to a sustainable future.

Composed of nearly 100-year-old trees and a diverse understory, this forest protects the soil and keeps pollution out of a primary watershed feeding Lake Raleigh. During a 1998 walking tour of the area, Jim Gregory, a forestry professor, said, "small first-order streams that are close to natural are almost non-existent in this area [but] we have one on Centennial Campus."

Water running off this land has an effect on everybody and every stream into which it flows, from Centennial Campus to the Atlantic Ocean. As a natural filter for rainwater, this land now cleans the very water we drink.

Furthermore, this land harbors an ecosystem that is unique to the area with diverse and healthy

See CENTENNIAL page 2



Residential housing is planned for development on Centennial Campus in an undisturbed 100-year-old forest. This is the beginning of a first-order stream. There are concerns about the possible contamination of the stream by construction on Centennial Campus. Staff Photo by Rian Thomas

TODAY


Classifieds
helps you with your housing needs. p. 5

Opinion
says good-bye to two fine writers. p. 4

Sports
takes you inside N.C. State's series win over UNC. p. 8

WEATHER

 Today
Sunny
81°/57°

 Tomorrow
Thunderstorms
83°/58°

WOZNIAK

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where.”

At that point, young Wozniak was enveloped by the wonders of invisible electrons flowing in a manner he controlled.

Through successive science fair and hobby projects he quickly earned a reputation as a shy “electronic genius” among his high school peers. It was soon quite obvious to his teachers that he was something special. One teacher, seeking partly to further Wozniak’s interests and partly to get him away from other students, whom he knowingly instructed to wire projects so they would immediately catch fire, directed him to Sylvania to spend time programming a computer — whatever that was.

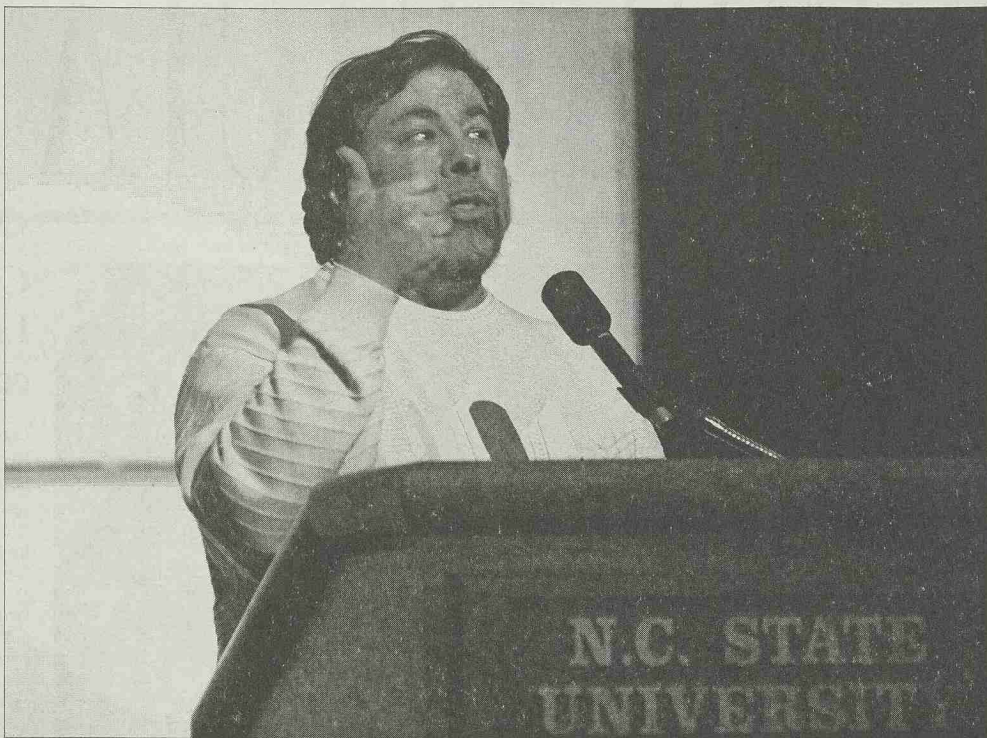
There, Wozniak saw his first computer, an IBM 1170 capable of computing an instruction every millionth of a second. He was entitled to run any program he wished and wrote a program in Fortran to determine a method of moving a knight piece about a chessboard, landing on each square exactly once.

His second week there, he ran his first program, which worked perfectly except for one problem — a quick mental calculation revealed that “it would take 10 to 25 years to compute, longer than the universe has been in existence,” Wozniak said.

His thirst for anything detailing computers and electronics became insatiable. Wozniak soon began making excursions to the nearby Stanford Linear Accelerator Center, where he learned that brilliant and wizen men all had a common trait: they forgot to lock their doors.

Sneaking into the buildings on weekends, Wozniak would head to department libraries, find low-circulation computer magazines, and rip out mailer service cards to receive free computer manuals.

At the arrival of each manual, he



Steve Wozniak explains one of his many pranks, the blue box which enabled him to make free calls. Staff photo by Thushan Amarasingwardena

would pour over the schematics for hours, learning how the computers worked and how he could make them better. He kept secretive about his self-teachings; never did his teachers or peers learn of his side projects. To him, the reward was the simple accomplishment of being able to know that he could.

As his high school years waned, he was college-bound. With a perfect 800s on his SATs, he was a prime candidate for many schools, save for the fact that he received less-than-stellar words of recommendation from his guidance counselor, the result of a litany of pranks he committed while in high school.

While visiting the University of

Colorado he was immediately enchanted. It was covered in snow, something he had yet to see. It was the only school he applied to. There, he quickly set a reputation for himself, getting placed on probation for computer abuse, having devised a program requiring reams of printouts, sending his class five times over budget.

Worried about facing the consequences and a hefty bill, Wozniak returned to California and went to a local community college the next year. Back on his home turf, Wozniak came across an old friend from high school, Steve Jobs.

“We shared two common interests,” recalled Wozniak, “electronics and pranks.”

The two initially caught interest in devices called blueboxes, homemade electronic gadgets that allowed them to make long-distance calls with nary a charge or cost. Wozniak went as far as to attempt calling the Pope under the guise of Henry Kissinger. He nearly succeeded.

Wozniak and Jobs soon attained positions with two local electronics companies, Hewlett-Packard and Atari. Allowed to let his engineering drive go, Wozniak thoroughly enjoyed working for HP. On the side however, Wozniak continued to tinker on his own, designing his own mini-terminal system, with its own logic board that used a conventional television set as its display.

Spurred by the efforts of two other young computer enthusiasts, Bill Gates and Paul Allen, who wrote a BASIC language for the Intel line of processors, Wozniak accomplished the same for a new processor from Motorola so that he too could play games and simulate logic on his new device.

Jobs, impressed by Wozniak’s design, believed that others would find it interesting as well and urged him to present the machine to a local electronics enthusiasts’ group, the Homebrew Computer Club, where others creating their own computers gathered.

However, instead of offering the schematics for the Wozniak’s logic board, Jobs suggested they build the \$20 boards themselves

and turn around and sell them for \$40 to other members of the club.

Wozniak, though skeptical of the idea, went ahead on the idea of starting a venture with Jobs, who was simply enthralled with the idea of “having their own company — it didn’t matter what it did.” A couple of days later, Jobs returned with a number: \$50,000, their first order.

They had caught onto something — “people simply wanted a pre-built computer,” Wozniak noted.

Success quickly followed them as word spread. A year after the Apple I was introduced, Wozniak released the Apple II. The Apple II became the world’s first genuine personal computer in 1977, encasing all of its hardware in a plastic case. It could produce color graphics, and it included built-in RAM, ROM, floppy disks and speakers among a list of other computer firsts.

By 1981, five years after the introduction of its first computer, Apple Computer had moved out of Jobs’ garage and become a company with 1,000 employees and revenues of \$500 million.

As time went on, Wozniak contributed on the development of the Macintosh computer, but he grew wary of corporate life and left the company. He now splits his time between teaching fifth-graders about computers and pursuing side projects, including a company called Wheels of Zeus, a play on his nickname (“the Woz”) that has yet to announce its product, something that he remained fairly secretive about.

Wozniak gave advice to students inspired by his work — “follow your heart, go in directions that seem interesting to you, not which will calculate out necessarily how much money you’ll make ... just do what you want to do, and always [seek] excellence, try to be a dedicated artist who wants to try to do it better than other human beings.”

CENTENNIAL

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wildlife and plant populations.

According to Will Rowland of the Wake County Audubon Society, some of the more unique bird species utilizing the forest are “scarlet tanagers, yellow-billed cuckoos and several of the vireos,” all of which use this forest as breeding and nesting habitat in the summer. Because these birds migrate, their loss due to development here has a direct impact on another ecosystem in a different part of the world.

Other components of the ecosystem are deer, beaver, fox and two species of winter stonefly.

James McNutt’s master’s thesis in zoology concluded that these

stoneflies are especially important because they are not normally found in aquatic ecosystems this far east.

According to Samuel Mozley, an associate professor of zoology, as “environmentally sensitive, indicator organisms,” the stoneflies are among the first species to recolonize adjacent and downstream habitat after disturbance. Habitat destruction from soil erosion, tree removal and acres of vegetation converted to impervious surfaces will eradicate these species.

Research conducted on the land dates back to the 1930s when Tom Quay received the first doctorate awarded at NCSU. Quay’s research in ornithology is continued today by the students of Ted Simon’s ornithology class, ZO 501.

A record of avian species has been kept on this undisturbed land for more than 60 years by these students and the members of the Wake Audubon Society.

Other areas of research and education oriented around the hardwood forest and ridge tops on the southwest shore of Lake Raleigh focus on aquatic natural history, invertebrate zoology and soils.

“The age and size of this forest [on Centennial Campus] would allow me to establish permanent plots to conduct several different types of labs...I can’t do...at Schenck Forest because the hardwood stands are both too young and too small,” said Dan Kelting, an associate professor of forest soils.

CYBER

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not currently receive any state funding; the lab is privately funded from research grants and corporate donations.

“NCSU has established certain centers and institutes that have a budget and staff of their own,” said Reeves. “The Cyber Defense Lab is not a part of these.”

Despite having no state contracts at this time, Iyer said that there is interest.

“The state government has expressed interest in using the tools being developed here to monitor security,” said Iyer.

According to Reeves, the major corporate supporter at present is Nortel Networks, one of NCSU’s business partners.

The Cyber Defense Lab researchers will also work closely with governmental agencies, such as the Department of Defense, National Science Foundation, National Security Agency and various military research institutions.

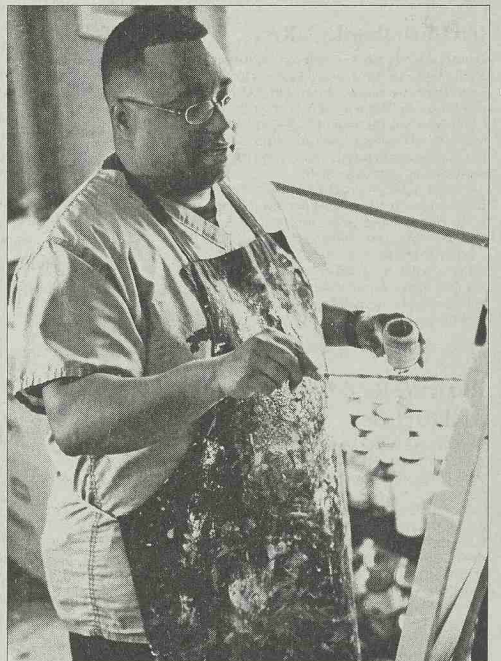
Other universities that are part of this collaboration include the University of California-Davis and the State University of New York. Several international universities will also be involved, including Lund University in Sweden, which is home to the first and largest of that nation’s research parks. Lund is also known in part for its promotion of technological advances.

Iyer said that current projects on the table include analyzing source code for security problems, which he is working on, and addressing how to make wireless networks more secure, which Ning is researching.

The bottom line, Iyer said, is that through this new facility, big advances will be made.

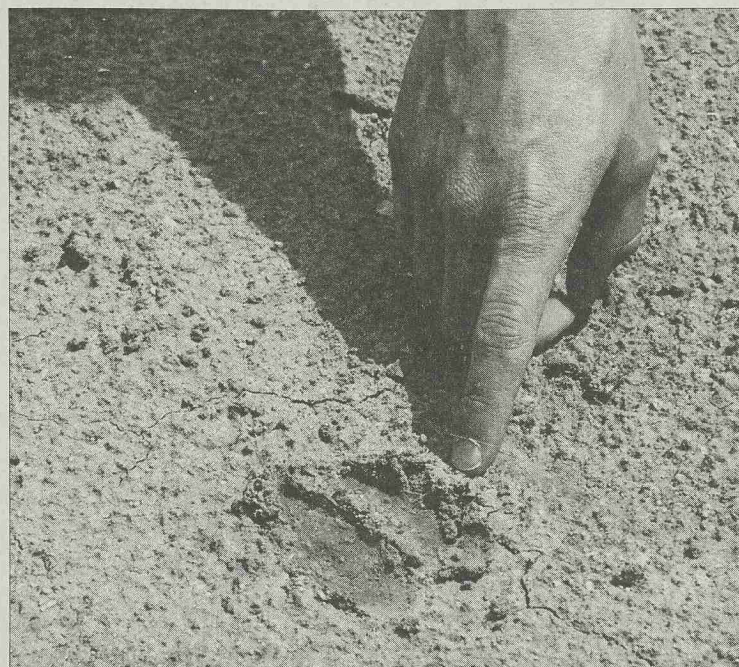
“We hope that this will help us learn to program better and to build better networks,” he said.

Artistic touch




Eric McRay works on one of his latest paintings at his Artspace studio in downtown Raleigh. N.C. State students are already familiar with his work because McRay painted a wolf on exhibit at Fountain Dining Hall. Other notable clients include Dean Smith and Stuart Scott.

Staff Photo by Josh Michel



Construction in this 100-year-old forest on Centennial Campus would disturb the natural beauty of the land and the animals that inhabit it. The habitat of the deer that made this print would disappear under pavement. Staff Photo by Rian Thomas



AMERICANA

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is hosting a humor arts contest, asking students to either submit photos via photoshop, write humorous captions to other pictures or just make Ben laugh.

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Too much junk: Newer vehicles have hard-to-recycle parts

Tom Avril
Knight Ridder Newspapers

PHILADELPHIA — In giant car-shredding machines such as the one near Philadelphia's Platt Memorial Bridge, America's old clunkers are efficiently reduced to chunks of valuable steel. Magnets pull the steel one way, so it can be melted and made into new cars or other products, and everything else goes the other way.

Yet lately, to the dismay of those in the recycling industry, the nation's piles of "everything else" have been getting bigger. It's a case where the solution to one environmental problem has led to another.

A growing portion of the typical American car is made of plastic, in part to achieve better gas mileage. But when those lighter, more fuel-efficient vehicles head to the junk heap — typically more than 10 million cars and trucks a year — the plastics are often too much trouble to recycle. Bumpers, seat covers, door panels — each is typically made from a different type of plastic. Dashboards alone contain dozens of different resins.

"There's no really economical way to either separate it out, or there's no vendor who would want that material, so off to the landfill it goes," said Bob Garino, commodities director for the Washington-based Institute of Scrap Recycling Industries.

The pile of stuff left over after steel is removed — called automotive shredder residue, or "fluff" — contains plastic, foam, glass, dirt and nonferrous metals

such as copper and aluminum. Estimates vary widely, but fluff accounts for up to 25 percent of the weight of a car, or up to 5 million tons a year.

The metals can be removed and sold at a profit. Not so for plastics, which usually can be made more cheaply from raw materials. Instead, companies such as SPC Inc., which operates the 6,000-horsepower shredder by the Platt Bridge, have to pay to get rid of it. When it reaches the landfill, fluff serves a purpose.

Many states, including Pennsylvania, which imports more trash than any other state, allow layers of fluff to be placed on top of the day's haul of regular trash, thereby minimizing odors and airborne debris. California, on the other hand, classifies fluff as a hazardous waste, in part because it may contain small amounts of dangerous metals such as mercury.

In any event, landfilling isn't the ideal solution, said Fred Cornell, the environmental and safety director at SPC, which also grinds up old refrigerators and other appliances. "You save electricity and water" by recycling materials, Cornell said. "You don't need the landfill space, which saves the land. You don't have the transportation cost of moving it to a landfill. It really is something that impacts a lot of areas."

Government officials and automakers are starting to address the problem. The European Union has mandated that by Jan. 1, 2006, 80 percent by weight of junked cars must be reused or recycled, a figure that is to rise to 85 percent in 2015.

Starting in 2005, all new vehicles on the European market must be reusable or recyclable at a minimum of 85 percent by weight. U.S. automakers have worked on ways to solve the problem, both independently and in partnership with the Argonne National Laboratory.

There are two general types of solutions. Manufacturers can develop technologies to separate the plastics after old cars are shredded. They also can "design for recycling" — that is, design their new cars with fewer plastics that are more easily separated.

Swedish automaker Volvo, for example, contends that its new sport-utility vehicle is 85 percent recyclable. Gerald Winslow, manager of the recycling program at DaimlerChrysler, cautioned that automakers do not wish to restrict materials to the extent that designers can't meet customers' needs for comfort, style and function.

Proponents note that aside from allowing for lighter, more fuel-efficient cars, plastics don't rust, they cost less, and they can be safer. DaimlerChrysler's recycling group focuses on how best to separate types of plastics. One option is to heat the combined plastics and separate out those that don't melt.

Another option under study is called "froth flotation," said Edward J. Daniels, a section manager at Argonne, outside Chicago. The technique takes advantage of the fact that water adheres to some plastics better than others. The mixture of plastics can be placed in a water solution. Air bubbles are then introduced, and

they attach to some types of plastic more readily than others, causing them to float for easy separation.

"We all believe that a single technology is not going to give us a complete solution to the problem," Daniels said. Then there's the option of turning the waste into energy by simply burning the plastics — which are, after all, made from petroleum or natural gas. But that solution can have problems as well, especially if the plastics are contaminated with toxic metals.

Kevin Mills, a policy expert who has studied the issue at Environmental Defense, a national non-profit advocacy group, acknowledged that the push for fuel efficiency led partly to the fluff issue. But solving one environmental problem need not have created another one; cars should be designed with the end of the road in mind, he said.

"It's typical for the auto companies to react to environmental issues on a piecemeal basis," Mills said. "If you haven't thought about the design issue, you're going to have a lot more problems on the back end."

Some automakers are starting to restrict their designers to fixed lists of materials, instead of allowing each car to be designed from scratch, he said. In the meantime, the fluff accumulates at shredders such as SPC, tumbling down chutes into large piles.

"A lot of it is just waste that has no beneficial use," said Cornell, the company environmental and safety director. "The goal should be: You shred a car, and every bit of the waste has some purpose."

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TECHNICIAN'S VIEW

Students need to learn how to write

A recent report by the National Commission on Writing in America's Schools and Colleges, a board convened by the College Board, showed that almost 50 percent of 11th graders are writing unsatisfactorily.

According to the study, 2002 SAT verbal scores were less than 1 percent better than the verbal scores in 1983. The board recommends that secondary school teachers put major emphasis on writing in all of their classrooms. The general consensus is that writing has essentially become a secondary component in public education. Therefore, it is absolutely necessary that N.C. State take these factors into account as it once again overhauls its Freshman Writing Program.

In Fall 2003, the current ENG 111z class will become two four-hour courses: ENG 100 and ENG 101. ENG 100 will only be for students who made 470 or below on their SAT verbal scores, and students making 480-690 will only take ENG 101, which the ENG 100 students will also take upon completion of their first class.

Students with higher verbal scores and high AP English exam scores will be eligible for automatic credit.

The English department explains that the new program is like those of other Research I universities, but NCSU has different needs than, say, Duke. We have a larger student body and more diversity in test scores. It is wrong to assume that, because Duke needs one freshman writing course, NCSU needs only one as well.

Many NCSU students remember ENG 111 and 112, which were mandatory for incoming students with average or below-average test scores. While many students may not have enjoyed taking two writing courses, this was actually the best method for preparing students for their future careers.

Writing connects all the NCSU curricula because it is something every field requires. Chemistry students write papers describing their research. Engineers draft proposals to obtain funding. No

matter what the field or profession, everyone has to write at some point during the day.

The school is trying to give students with more severe needs in English the ability to take two courses, but these placements are based on the SAT verbal score, which reflects more about vocabulary and reading comprehension than writing abilities.

The SAT will add a writing section in 2005, but until then there is no way for NCSU to judge, without AP English test scores, whether a student is a competent writer. Without better gauges of writing ability before enrollment, the university will be unable to accurately assign students to one route over the other. Requiring two writing courses of everyone eliminates the possibility of overestimating the talents of some or underestimating those of others.

A two-course system for the Freshman Writing Program is the most logical solution. Making students write consistently for two semesters is a beneficial practice that can only help them become more confident writers.

Further, freshman English courses are wonderful at getting students to mingle with people from different colleges; they're among the few courses that a wide breadth of students must take. Adding a second would only contribute to the diversity of ideas and people freshmen are exposed to.

Finally, the university already requires all students to take two science courses with labs; one could certainly argue that a chemistry major will make as much use — if not more — of a second writing course as an English major would of a botany or chemistry class.

When the SAT incorporates a writing section, then NCSU will have a better ability to judge a student's writing ability. But if the commission is correct and many high school upperclassman are poor writers, then it is absolutely necessary right now for our university to go against its peers and provide two mandatory writing courses for its freshman.

The Stafford Bell



Andrew Payne
Staff Columnist

It is not often that administrators touch the lives of students. Time and again we hear of teachers and faculty members who provide that spark to a student that leaves an indelible mark on his or her life.

Well, for many other student leaders and myself, Tom Stafford has done just that, by inspiring greatness in students and challenging them to face adversity.

Stafford has served as vice chancellor for student affairs since 1983. As vice chancellor, he is responsible for the welfare of almost 30,000 students and everything from University Dining to the Women's Center.

Stafford began his tenure at N.C. State in the 1960s, starting as Head Residence Counselor of Owen Hall (today we call them Resident Directors or RDs). Since then Stafford has mentored, taught, tutored and trained literally thousands of students. But, most importantly, his leadership has had an effect on the experience of every student who has walked the halls of NCSU, even though most never knew.

The "Silver Fox," as many students affectionately call Stafford, advised me when I served on the UNC Board of Governors. But he is much more like a father than an advisor to me. I am not alone in my admiration for Stafford; just walk the halls of Witherspoon Student Center and you will hear his praises.

That is why I am excited to announce the creation of The Thomas H. Stafford Community of Excellence. This award will be given each year to NCSU's most

outstanding student organizations that exemplify dedication and enthusiasm toward students, the campus and community.

Every year during halftime of the Homecoming football game, the chancellor recognizes the new Leaders of the Pack and the Caldwell Cup recipients (acknowledging NCSU's outstanding fraternities and sororities). Adding to the halftime festivities will be the bestowing of this award and each year, starting in 2004, three new organizations will be inducted into the Thomas H. Stafford Community of Excellence.

Also at that time the organizations will receive cash prizes—\$3,000 for the best small organization, \$6,000 for the most outstanding medium-sized organization and \$10,000 for the campus' most exceptional large student organization.

But, most importantly, the \$10,000 winner will lay claim to the Stafford Bell. Why the Stafford Bell? The original intention was to place this bell atop the Memorial Bell Tower when it was completed after World War I. But after the lower portion of the tower was completed in 1921, construction was suspended because of the onset of World War II. The most recognized symbol of the university wasn't completed until 1937 and this bell never "sang" to the sprawling campus. Now a NCSU alum is giving it back for the purpose of honoring student organization excellence and the service of Stafford.

But there is also something unique and special about the Stafford Bell. Not only will it finally make its way back to NCSU, but it will also start a new tradition. Each

year the honored large student organization will ring the bell to kick off the Homecoming festivities. The week before the Homecoming football game, the Stafford Bell will also be displayed in the Brickyard for the campus community.

Each year the student body president, with consultation from the Union Activities Board and Inter-Residence Council presidents, will outline the guidelines and point schemes for this award. Student organizations will begin competing for the honor starting in the fall.

The initial awards will be funded by Student Government and later by gifts through an endowment in Stafford's honor. The student body president and the chancellor will officially present the

"Stafford realizes that at the heart of an academic institution is the vibrancy of its student population."

Thomas H. Stafford Community of Excellence Award and the Stafford Bell during halftime of this year's Homecoming football game.

No one cares more about NCSU and especially its students than Stafford. He realizes that at the heart of an academic institution is the vitality and vibrancy of its student population. He has dedicated his life to putting students first. And every year students will honor him by working to make theirs the greatest organization at NCSU, which they will accomplish by giving back to the campus community.

Thanks Dr. Stafford!

Andrew's final radio show airs Tuesday night from 6-8 p.m. on WKNC 88.1. E-mail questions or comments to andrew-payne@wknc.org

Locks should come before guns

Staff Editorial
The Crimson White
U. Alabama

(U-WIRE) TUSCALOOSA, Ala.—Are the skies really safer with the first 44 pilots allowed to carry guns sworn in and as many as 33,000 pilots estimated to line up for training over the next five years?

Though the pilots are well-trained and an armed pilot might have prevented the tragedies of 9/11, the training is expensive and there is some question about the safety of having a gun on board at all.

Training each pilot costs \$6,200, and the Transportation Security Administration has committed that it will spend \$8 million on training pilots before Sept. 30.

The money spent to arm pilots could be better used to secure the cockpit. If terrorists cannot reach the pilots, it doesn't matter if they are armed.

This way the plane cannot be used as a flying incendiary bomb, and no one has to worry about whether it's safe to have a gun in the cockpit of a comm-

See GUNS page 5

Charlotte representin'...



Decker Ngongang
Staff Columnist

In my four years at N.C. State and my three years writing for Technician, I have written on basically every facet of the college experience and here I stand cashed out. What I am doing today is just one big shout-out. I hope they print this, because I have held back for three years and there are a lot of peeps who have asked to be in my articles.

Ben, Jorge and Brendan—great party on Saturday night. I felt "young" again and it was good to be out, but it sucks the cops had to come break it up. It was fun while it lasted.

To all the random drunk guys who come up to me at parties saying, "you are the paper guy"—I say, "what's up!" You guys are my motivation, because if my little old columns can be remembered by people both sober and inebriated, then I am at least doing some things right.

The crew from freshman year: Willie, Robbie, Josh, Justin, "sweet Kassandra" and Boston guy Alec—it was fun as hell running around NCSU trying to have fun. It was great picking on each other, eating mad Gumby's, paying \$20 to get into The Cantina, and most importantly making it through this university. We may not all be as tight as we were back then, but the love is still there and I will always remember running from Subway halfway to Fraternity Court chasing the blue Jeep. And no one will ever forget Hollywood D... nuff said.

Whoever "Haz-Matt" is on the Technician Online Web page, I appreciate you reading my columns and providing feedback on them. I don't necessarily agree with your critiques, but you read every word and that is what we write for. I appreciate it.

People who came to my aerobics class, thank you for putting up with me for three years. I know I am definitely not the best instructor or the most "aerobic," but we had a good time. I had the best job in the world; I got to see NCSU's most

beautiful women, and they actually paid attention to me. The staff I worked with was the bomb as well. Talk about beautiful women, I was fortunate to work with women whose physical beauty is nothing compared to their individual personalities.

To my roommates—I love you guys. Three totally different people who somehow came together to agree, basically, on bills. Jake Fussel—who is the oldest and, therefore, usually the voice of reason or the most likely to have his car stolen when things get out of hand. Drew Schaffer—my country music/NASCAR-inclined boy who likes nothing more than a Miller Lite, a race and Jennifer Lopez. Then there is Kyle McLeod—the Canadian who just got his citizenship and has proved to be one of the funniest cats I know and who spends more time getting ready than anybody on this plan-

et. I will miss you guys, and we had fun these past two years. To this date, we probably threw the largest party The Abbey or NCSU has ever seen.

Chancellor Marye Anne Fox, Tom Stafford, and all the other administrative heads with whom I have dealt over the past couple of years—I say, peace! Chancellor Fox, you have opened up a whole lot since you got here, keep doing it and you should try hip-hop as a good stress reliever.

Also, if you leave for the White House in a couple years then please hook me up with a job. I will forget you are a Republican if you can hook a brother up. Dr. Stafford, all I can say is mad props on being everywhere all the time, and thanks for all the advice. You interact more with students than the students do, and you make up what a student affairs office should be about. Keep connecting and giving people "dap."

I have had the most interesting relationships during my time here, and I would like to thank those who have been unlucky enough to go out with me. I won't call anyone out because I have learned the hard way to keep the women

I date or speak to out of my articles. I want to also say that NCSU has some of the most beautiful, together women I have ever seen. Destiny's Child speaks of independent women; well, a lot of females here typify that notion.

Through teaching aerobics, working in Student Government, and working in Athletics, I have seen some beautiful women. Their diversity is amazing and one reason I have learned so much. I love yawl and hope I was as good to you as yawl were to me.

My year wouldn't have been the same without working with the freshman football players. I was very scared going in there trying to teach them about sexual assault and rape, but they listened and enjoyed my company. T.A., Manny, A.J., T.J. and Roddy all may have learned a lot from me, but I learned a lot from them. Though they might not listen to me

when I tell them things, I believe they have a deeper understanding of their position as high-profile males on this campus. If I instilled a little bit of responsibility in regards to that issue, then the door

has been opened for more. Fellas—continue to keep up the good work, on the field but especially in the classroom and in the community.

This is my last article here at NCSU because I will be graduating on May 17. Along with the random thoughts I compiled above, I have a couple of regrets to leave behind but I don't know who doesn't. I have been amazingly blessed through my experience at NCSU and I wouldn't change the good or the bad. I laid out all my "ish" for all you people to see and you definitely commented on it, which I appreciate. Thanks for reading my columns. LOVE, PEACE AND SOOOUUUUUUUUUU!!!

Decker will be greatly missed at Technician. Let him know how much you will miss reading his columns at dtngongang@unity.ncsu.edu.

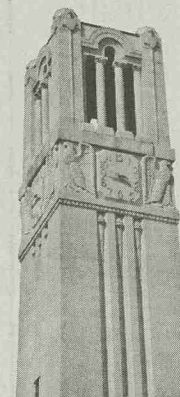
"If my columns can be remembered by people both sober and inebriated, then I am at least doing some things right."

TECHNICIAN

Thushan Amarasiriwardena
Carie Windham
Editors in Chief

THE STUDENT NEWSPAPER OF NORTH CAROLINA STATE UNIVERSITY

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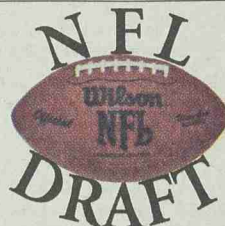
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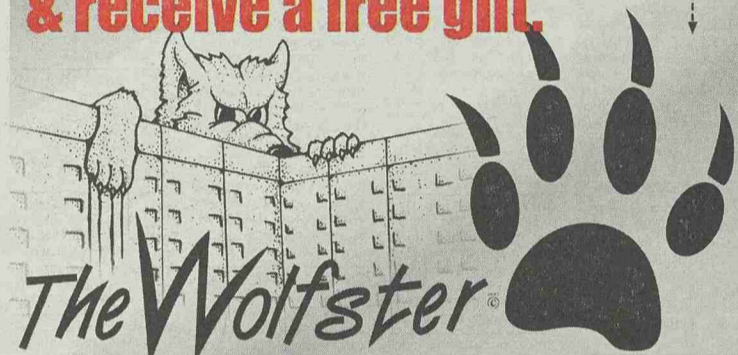
**Scott Kooistra,
Offensive Tackle
Cincinnati Bengals**

The Detroit Lions grabbed the first-team All-ACC safety with the second pick in the fifth round. Although Holt may have lasted a little longer than he should, the kick-block specialist figures to impact the Detroit special teams unit immediately.

Perhaps a bit of a surprise, the only other N.C. State player taken in the draft was Scott Kooistra. The Bengals picked up the Cary native with the very first pick of the seventh and final round.

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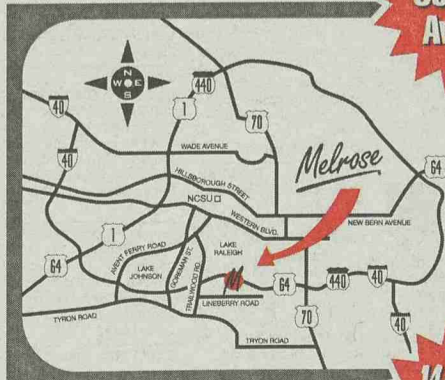
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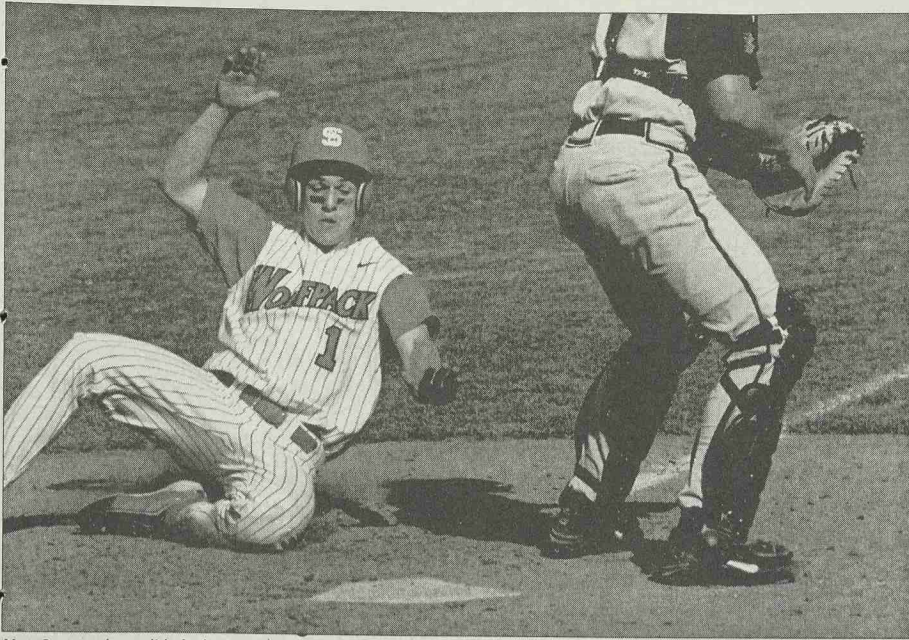
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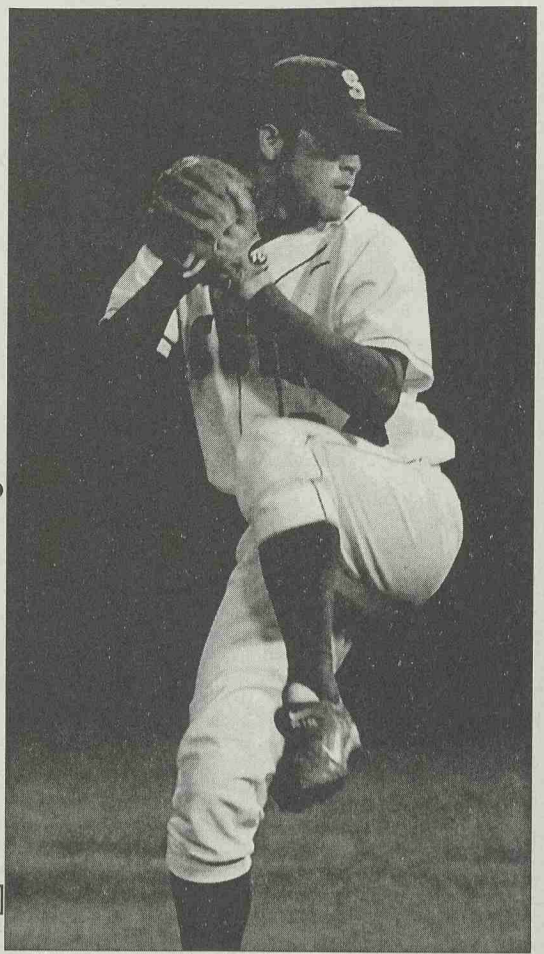
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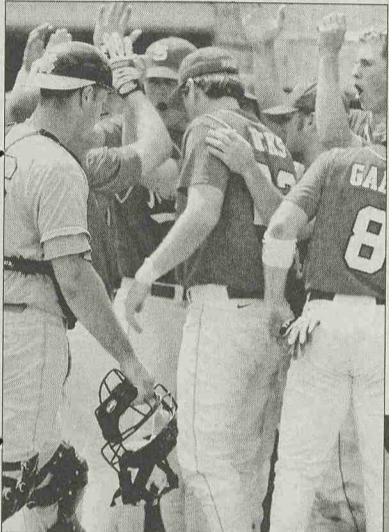
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Matt Camp makes a slide for home in Saturday's 8-6 N.C. State win. Staff photo by Aaron Jennings

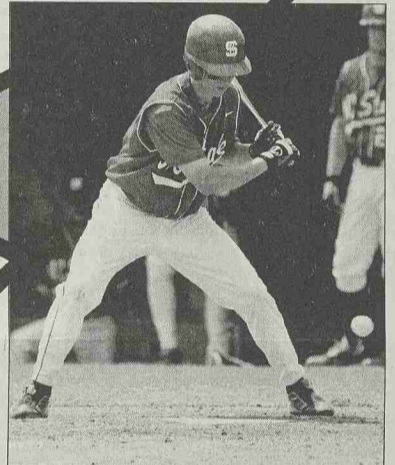


After sitting out a good portion of last year with a broken leg, Mike Rogers continues to produce sterling outing after sterling outing for the N.C. State pitching staff. Staff photo by Alan Gerber



J.C. State celebrates Chad Orvella's home run in Sunday. Staff photo by Tim Lytvinenko

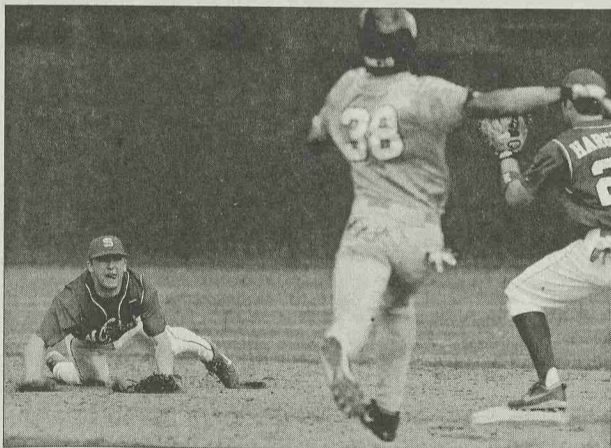
RISE TO THE TOP



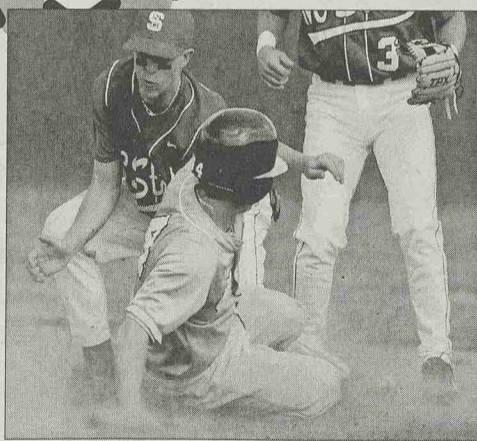
The Wolfpack offense hasn't let many pitches by itself. Staff photo by Tim Lytvinenko



Colt Morton trots home after belting a two-run homer in Friday's 3-2 Wolfpack win over the Tar Heels. Staff photo by Alan Gerber.

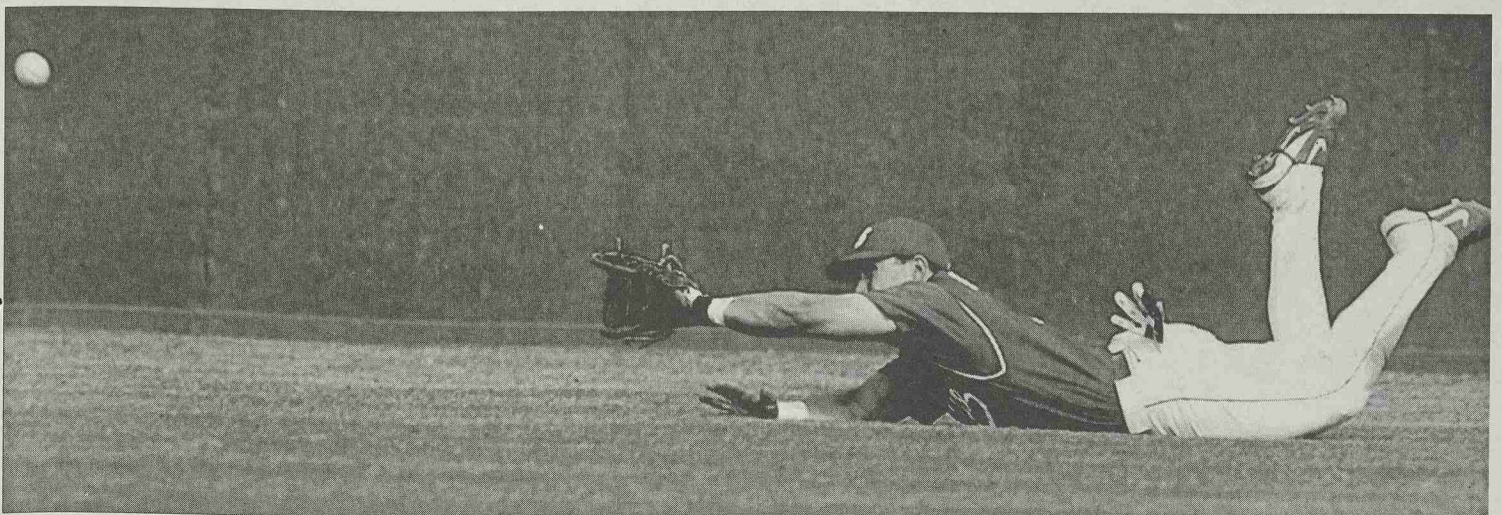


Shortstop Chad Orvella prevents a Tar Heel basehit Sunday with a diving stop and a flip to second baseman Adam Hargrave. Staff photo by Tim Lytvinenko



Matt Camp tags out UNC's Chad Prosser, who makes an unsuccessful attempt to steal second base Sunday. Staff photo by Tim Lytvinenko

Tabbed to finish sixth in the ACC, the N.C. State baseball team is now first place in the league with two series remaining in the regular season.



N.C. State's J.R. Riley can't quite make the catch in Sunday's 12-6 loss to North Carolina despite a diving effort. The offense of Riley (14 home runs, 38 RBIs) has been one of the keys to the team's surprising success. Staff photo by Tim Lytvinenko

Monday Sports

Schedule
Baseball vs. East Carolina, 4/30, 7

Scores
North Carolina 12, Baseball 6



TECHNICIAN

Pack turns two

The N.C. State baseball team took two of three games from North Carolina and still hasn't lost an ACC series this year.

Jay Kohler
Senior Staff Writer

For the weekend matchup between archrivals North Carolina and N.C. State, the fans in the stands definitely got their money's worth. Many fans, however, were unable to witness the series victory for the Pack with Doak Field's currently small seating section sold out. Those who made it to the games early found out quickly why State truly belongs among the nation's elite baseball teams.

The Wolfpack took down 22nd-ranked Carolina 3-2 on Friday and 8-6 on Saturday before dropping Sunday's finale 12-6. The win continued State's streak of six consecutive series victories, dating back to a season-opening 2-1 series loss to UCLA.

With the weekend wins, State moved to 36-10 on the season and 13-5 in the ACC. The Tar Heels fell to 33-14 overall and 11-7 ACC.

"We played really hard," said shortstop Chad Orvella. "That's about all we can ask. This was another big series, and we did what we wanted to do, which was to come in and win at least two out of three and we feel pretty good about it."

Orvella was one of four pitchers State used on Sunday. The loss, however, went to starter Colin Brown (0-1), who pitched only 2 1/3 innings and was shelled for six hits and seven runs.

UNC used more pitchers than State had hits Sunday, sending seven to the mound during the game. Michael Gross (2-1) was awarded the win after pitching the seventh and eighth innings to near-perfection, giving up no hits or walks and striking out two.

State managed only six hits in the contest to go with its six runs. That total was bolstered by Orvella's second home run of the season, which hit the foul pole in left field. After a three-run sixth and a two-run seventh, State looked poised to make a run. However, the Pack just wasn't able to get that clutch hit it desperately needed.

"I thought Gross was outstanding," said head coach Elliott Avent. "When they were trotting all those guys in and out, I think everybody in our dugout thought that this was over, not just me, everybody in our dugout felt like this was over and that we were going to win."

The Pack just missed its best opportunity of the day in the sixth inning when catcher Colt Morton lined a two-out offering to right field with the bases loaded. Unfortunately for Morton, it was right at outfielder Sean Farrell, and the Pack would get no closer than one run the rest of the afternoon.

"I think Carolina thought we were going to win, too," said Avent. "You could see the look on their faces."

On Friday, Mike Rogers (10-1) got the win for the Pack, and Daniel Moore (5-1) of the Heels recorded his first loss. Joey Devine racked up his 12th save of the season. Saturday, reliever Nate Cretarolo (4-2) held off Carolina and Kevin Brower (4-3) took the loss. Devine again had the save for his 13th of the year.

"I think we swung pretty good all this weekend, but we still only got six hits," said Avent of Sunday's game. "You can say that it's just one of those days or you can give credit to their pitchers for making pitches when they had to but obviously on Sunday you want to come and get more than six hits."

State returns home to entertain ECU Wednesday at 7 p.m.



Wolfpack second baseman Adam Hargrave turns a double play in Sunday's 12-6 loss to North Carolina. Despite dropping the final game of the weekend, N.C. State won the series from the Tar Heels, keeping intact its ACC series winning streak. Staff photo by Tim Lytvinenko.

Inside Sports

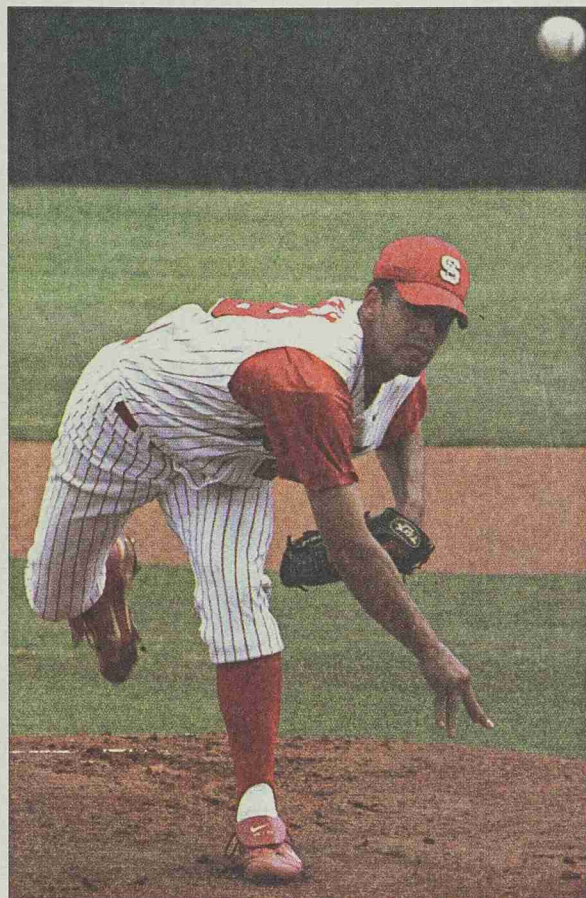
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Devine intervention: Freshman closer Joey Devine picked up the save in both Wolfpack wins of the series. He now leads the nation in saves with 13.

Positive start: Thanks to 3 RBIs by Colt Morton, the Wolfpack won the first game of an ACC series for the fifth time in sixth attempts.



N.C. State right-handers Vern Sterry (above) and Mike Rogers have combined for 20 wins. The Wolfpack is still in need of a third starter to compliment possibly the best one-two pitching punch in the nation. Staff photo by Aaron Jennings.

State still looking for a third starter

While N.C. State continues to get wins from starters Vern Sterry and Mike Rogers, the third spot in the rotation remains up for grabs.

Steve Thompson
Senior Staff Writer

The N.C. State pitching staff has been one of the most surprising developments in what has been a surprising season for the Pack.

Collectively, the staff has a 3.87 ERA, and starting pitchers Vern Sterry and Mike Rogers are a combined 20-1. Freshman Joey Devine has become a dominant closer, registering 13 saves while posting a 1.88 ERA and a 4-1 record.

For all its pitching success, however, the Pack has lacked a consistent third starter. Phillip Davidson and Nate Cretarolo have shared the role through much of the season, going a combined 7-4 with a 5.12 ERA. Others, such as David Hicks, Jason Duncan and Brandon Shipwash, have been tested as starting pitchers.

"Right now we're still looking for a third starter," said Wolfpack shortstop Chad Orvella. "We've tried a number of guys, and we're looking for someone to step up."

Sunday afternoon against North Carolina — going on a hunch — head coach Eliot Avent started freshman Colin Brown, who had pitched well in five relief performances.

"When you sit there and look at seven runs over three innings, you think your hunch didn't work," said Avent. "But, if I had known he was going to pitch like that, I would have said it was a no-brainer."

"I thought Colin was outstanding today. What hurt him was that we didn't make a couple of plays early on."

While Avent is happy with Brown's performance, the stat sheet tells a different story. Over 2 1/3 innings, Brown allowed seven runs on six hits, walking four batters and hitting another. A scout watching the game summed up his performance, calling it "less than sterling." Obviously, the search for a third starter is not over.

"I'm not looking to solidify [someone as a third starter], but we're looking for someone to step up and give us quality innings down the stretch," said Avent. "We've had some guys that may not have pitched as much as they would have liked to and we think a couple of them are going to step up, and that's going to be important."

While State won its sixth straight ACC series this weekend by taking two of three from North Carolina, the Wolfpack has swept only one team — cellar-dwelling Duke. After facing Rogers and Sterry, ACC teams appear to be chomping at the bit when facing anyone else.

"Well, it's nice to have those guys out of the way," said UNC head coach Mike

Fox of Sterry and Rogers.

Avent feels that the dominance of those two pitchers may be deceiving in making the other pitchers look bad in comparison.

"It's just a situation where you're talking about two of the best pitchers in college baseball in Vern Sterry and Mike Rogers," said Avent. "I don't know of any team in the country that has three starters of the caliber of those first two."

In the upcoming ACC tournament, pitching will be at a premium. The double-elimination affair puts a strain on the pitching staff over the five days of the tournament, and it will be important for the team to get good performances from players other than Sterry and Rogers.

"Everybody's looking to improve on the team," said Orvella. "Obviously, the pitching [situation] is something to be worked on, but someone will step up."

Avent, however, doesn't seem overly concerned about the situation — he feels a number of pitchers can turn in good performances for the Pack as the season winds down.

"We've had Phillip Davidson pitch extremely well. Nate Cretarolo pitch very well," said Avent. "I thought Colin Brown stepped up and pitched well today."

"I think any of a number of those guys or maybe somebody I didn't name are going to step up and play a big role in our success."