



#14 Wolfpack set to duel invading Blue Devils; major bowl hopes alive
Sports/Page 3

Rays in the sun: NCSU Solar House uses newest energy technologies
Frontiers/Page 5



Technician

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Students march to take back the night

By Tracey Neal
Staff Writer

Torrents of rain didn't keep N.C. State University students and faculty away from the fifth annual "Take Back the Night" march last night.

"I think it's a good cause and I believe we've got a good crowd for the weather," said Brian Fairchild, a junior in animal psychology science.

Marchers gathered at Fairmont United Methodist Church, marched across Hillsborough Street and ended up on the Brickyard, under Harrelson Hall. There the crowd listened to speakers and held a candle-light ceremony.

Lucy Bickers, a sophomore and three-time rape victim told women to seek help if they were ever raped.

"It seems like women can't do anything to defend ourselves without someone saying 'you asked for it,'" Bickers told the crowd of about 350 students and faculty. "No woman asks to have her clothes ripped off, no woman asks to go to the hospital. You don't ask for the bruises, you don't ask for the blood, and you don't ask for the damn nightmares."

Cheri Russ of the Interact [rape crisis center] Speakers Bureau, spoke about date rape and gave out some statistics. "We're here to tell you tonight that forced sexual intercourse is rape," she said. "We want the rapist to know that what he is doing is wrong."

The rally, sponsored by the NCSU Rape Prevention Committee, drew several campus groups: fraternities, sororities, the Inter-Residence Council and the Women's Resource Coalition among others.

Dorm residents also marched. A residence adviser from Bragaw described why they came out this year. "Traditionally Bragaw has a reputation of being very sexist and anti-woman," said Jonathan Felts. "We've got a new program this year called IMAGE. It stands for Improving Men Around a Growing Environment, and we thought

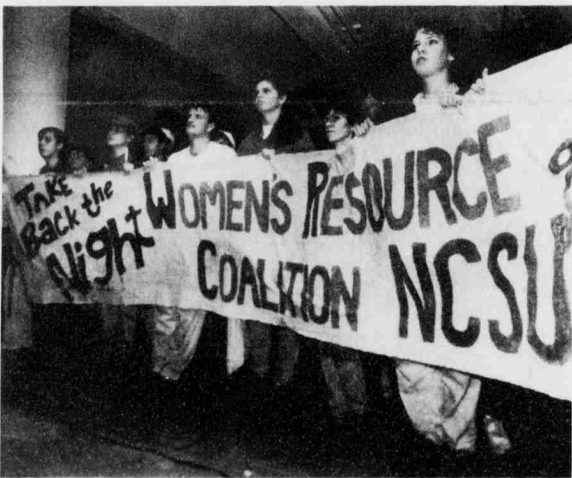
See SUPPORT, Page 2



Angela Pridden/Staff (2)

(ABOVE) Lisa Hyatt, a senior in English (RIGHT), and her sister Dannielle Hyatt, sophomore undecided, got caught up in the emotion of the evening. Both were participating in the candlelight vigil after the Take Back the Night march.

(BELOW) Members of the Women's Resource Coalition showed their support of the night's events at Harrelson Hall while listening to several speeches. The marchers walked from Fairmont United Methodist Church off Clark Avenue to the Brickyard where they gathered under Harrelson. Following the speeches, there was a candle-light ceremony where many rape victims came forward to light candles. Following the ceremony, the participants silently marched down Hillsborough Street to the NCSU Women's Center.



Leaders of the Pack finalists announced

By Erika Farr
Staff Writer

Excited chatter and congratulations filled the air Thursday night as 10 N.C. State University students celebrated their selection as finalists for the Leaders of the Pack competition.

The students, who met in a small room in Harris Hall, represented the final contestants eligible for the \$1,000 scholarship and trophy the male and female Leaders of the

Pack winners will receive.

The finalists included Caroline App (junior, communication, sponsored by Pi Kappa Alpha), Kathryn Barnhill (jr., computer science and public relations, Sigma Kappa), Kelli Beck (jr., biochemistry, Chi Omega and Phi Delta Theta), Debra Chenery (sr., computer science and applied mathematics, Alpha Phi), Cathy Summer (jr., political science and social studies education, Alpha Delta Phi), Cynthia Zuckerman (sr., communication, Alpha Phi and

Delta Sigma Phi), Eric Challengren (sr., chemical engineering, Delta Sigma Phi), Bill Hunt (jr., civil engineering, the Student Wolfpack Club), Eric Mizelle (sr., communication, African-American Science and Health Society) and Sanjay Patel (jr., textile management and textile pathology, Pi Kappa Phi).

Of the original 17 applicants who applied Oct. 28, 15 semifinalists were chosen based on their grade-point averages, extracurricular activities and essays. Assistant

Director of Student Development Mike Borden said.

This number was then weeded down to 10 based on the personal interviews that took place this week, Borden said.

The final step in the competition, next week's student body vote, accounts for 50 percent of the evaluation criteria, Borden said.

"Voting will take place on the 16th and the 17th at the Tunnel Inn, the

See CONTEST, Page 2

Senates vote for integrity policy; disagree on evaluations

By Ron Batcho
Staff Writer

The Student and Faculty Senates agreed on academic integrity, but could not reach common ground on plus-minus grading and the publishing of teacher evaluations Wednesday night in a rare joint meeting.

The meeting, the only one to be held between the two senates this semester, was held under strict topical guidelines restricting individual topic discussions to 30 minutes and ensuring a 9 p.m. ending time. Speakers from both senates agreed that more emphasis should be

placed on maintaining academic integrity. Andy Crocker, the author of a resolution on academic integrity for the Student Senate, said the resolution stresses improving student attitudes toward academic integrity.

"A person with academic integrity would act in such a way that a person acts in an honest and forthright manner in everything he or she does," Eric Young, chairman of the Faculty Senate Academic Policy committee said. "The work you do is your own, and it is done within the expectations set by the professor."

who will always cheat [under any circumstances], and students who cheat when they have to," Student Senate President Eric Lamb said.

Some student senators pointed out that students could cheat unknowingly. For example, students who use old tests for studying may be cheating under university policy. Unless a professor explicitly says that students can study with old tests, students are not allowed to use old tests, speakers noted.

Student body chief justice Nathan Chambers said an honor pledge could serve as a possible deterrent to cheating.

"The honor pledge is a tool in the

system," Chambers said. Chambers conceded that an honor pledge is "just a part of the whole issue" of academic integrity.

Chambers added that under the current code of conduct, a student caught cheating can be approached by a faculty member and can be dealt with on the spot. A student can sign a sheet of paper admitting that he or she cheated and receive no credit for the course. If a student feels he or she has been falsely accused of cheating, the student can appeal to the academic review

See FACULTY, Page 2

Plus/minus grade system still unsettled

By Michele Borowsky
Staff Writer

Plus/Minus grading is still up in the air.

The issue has been debated at joint meetings of faculty and students, but a final decision has not yet been reached.

"The faculty are for it. The students are against it," said Myron Kelly, the chair of the Faculty Senate. In an October survey of 1,263 faculty members, 65 percent voted for the new grading system and 35 percent voted against it. In a survey of more than 500 students, about 534 were against the new grading scale and about 34 were for it.

"I think that it would be negative," said Student Body President Chris Jones. Some students' grade point averages would be lowered if a plus/minus system was implemented, Jones said.

If students consistently made the lower portion of a grade range, their GPAs would plummet, said Sonya Rollins, a student senator.

The Student Senate has passed several resolutions against the idea, and Jones does not foresee a sudden change in students' opinions.

"I don't see our attitudes changing," he said. "And there's not a unity among the faculty either."

The provost will make the final

decision.

"But even with this division, the chancellor and provost are listening to the student voice," Jones said. If they hadn't listened, the new grading scale would have been in effect a long time ago, he said.

The new scale would offer faculty the option of using plus/minus grades but would not require that professors use this system. A B-plus would be equivalent to 3.33 and a B-minus would equal 2.67. But the proposal does not include any plus/minus grades below a C, because equating a C-minus with 1.67 would raise graduation and C-wall requirements.

Quality points for an A-plus grade would no longer exist under the new system because NCSU 4.0 scale would use the standard 4.0 scale.

Rollins, however, feels this is unfair to some students.

"I believe A-plus equals 4.33 should be included in the grading system," she said. "If it is left out, the better students lose the chance to balance an A-minus with an A-plus."

The faculty, however, would not be forced to use this new system, but could instead adjust divisions by curving, Rollins said.

See SCALE, Page 2

Autopsy concludes grad student died of gas inhalation

By David Newton
Staff Writer

The N.C. State University graduate student, whose body was found Sunday in a lab at Bowman Gray school of medicine, died of asphyxiation due to inhalation of nitrous oxide, according to Dr. Patrick E. Lantz, who headed the medical investigation. Nitrous oxide is also known as laughing gas.

Toxicologic studies showed that Eugene Lewis Jensen had been inhaling nitrous oxide gas immediately prior to death, Lantz said. He called the death accidental.

"He was using this in an inappropriate way, and it went bad," Roger Rollman, spokesperson for Bowman Gray/Baptist Hospital Medical Center, said.

Jensen apparently filled a plastic bag with the gas, which was located in an adjacent room, and then carried it to the lab and inhaled it, Lantz said. The nitrous oxide, an anesthetic, knocked Jensen out and he suffocated on the plastic bag that was entangled over his mouth and

nose, he said. Jensen's work did not involve the use of nitrous oxide, Lantz said.

L.G. Petree of the Winston-Salem Police Department agreed that the death was accidental and said that the police investigation is closed.

Nitrous oxide is a nonflammable, nearly odorless gas that some people use to get high. Death through asphyxiation is common, Lantz said. Habitual use damages the spinal cord and bone marrow.

Nitrous oxide is used for many purposes in the medical center, Rollman said.

Rollman said Jensen had worked at Bowman Gray for about two years before being accepted into the doctorate program at NCSU. Since August, Jensen had been working on his own time to complete some research.

Jensen's research involved looking at cells under a microscope, Rollman said. He was making slides the night he died.

Jensen had a reputation at Bowman Gray for being an exceptional worker and researcher, Rollman said.

Senate meeting agenda

Discussed how students perceive cheating.

Decided that students must realize what cheating is, under university policy.

Disagreed on the grading, evaluation systems.

Push for faculty evaluations was rejected by faculty. Students opposed plus/minus system.

Faculty

Continued from Page 1

board. While the senates generally agreed there was a need for emphasizing academic integrity, they could not find any common ground on the proposed plus/minus grading system. Kelly said the third referendum on plus/minus grading was being addressed by the Faculty Senate. Referring to a survey distributed to 2,300 faculty members earlier this semester, Kelly noted that of the 221 surveys returned, 65 percent of the faculty members favored a plus/minus grading system. Fifty-five percent said they were in favor of setting the top value of A+ at 4.00 instead of 4.33. Kelly also said a 2.00 grade point average would still be necessary for graduation from the university. This would result in a student with a C-

average not being able to graduate if the grading system was changed.

Student senators argued against the plus/minus system, stating that the time and teacher a student picks to take a class could change the grade a student would receive in the class. Another problem students had with plus/minus grading was that assigning letter grades in some classes is hard enough. Having pluses and minuses would complicate grading. The earliest the plus/minus grading system would go into effect would be the fall semester of 1994 when a new computer system would be enacted.

The senates also disagreed on whether or not to publish teacher evaluations.

Young said individual departments use evaluations internally to decide whether or not a teacher receives tenure, a promotion or a pink slip. Lamb said faculty and administration support would be necessary to

effectively collect and evaluate teacher evaluations.

However, faculty senate members said they would not back a Student Senate resolution calling for the publishing of teacher evaluations. Evaluations cannot affect tenured faculty, and as a result, tenured faculty have little reason to care about student opinion and little reason to permit their evaluations to be published, Faculty Senate speakers said.

Senators also discussed graduation requirements, but conversation was cut short by the 9 p.m. ending time of the meeting. Faculty senators said the number of hours required to earn a degree must be cut to 128 hours in eight semesters, or the degree must be labeled a five-year program. Faculty senators added that making some programs five years would make N.C. State less competitive in attracting students.

Support

Continued from Page 1

this would be a good activity to get people involved."

Jonathan Jefferies, a senior and also a Bragaw RA, said he was at the march for different reasons. "I'm here for awareness and support, and I also have a separate reason in that my sister was raped," Jefferies said.

According to Tim Blair, chair of NCSU Rape Prevention Committee, the march served two purposes. "One is to raise awareness," he said. "The second one is to serve as a defense mechanism for survivors of rape and sexual assault."

Mark Richard, coordinator of Student Athletic Services for the NCSU Athletic Department, spoke to the men in the audience encouraging them to get the word out to

their friends that "scoring" and rape are not cool. "I think the message we need to get out tonight is that to be a real man, real men do not rape," he said.

Jan Rogers, director for the NCSU Women's Center, said the "Take Back the Night" march acts to bring the community together to demonstrate support for women who have survived sexual assault. "The reason the march was started is that for one night in the safety of all of us gathering together, women and children, who are the primary victims of rape and sexual assault, can walk in the dark safely," Rogers said.

Steven Spann, president of the Inter Residence Council, explained the reason he felt people showed up. "We're out here to show our support for the mistreatment of women that has been going on throughout history and we need to do something about it because we can't let it continue."

GPAs, extracurricular activities and essays contribute the remaining 50 percent of the evaluation criteria, according to Borden.

The contestants will be focusing on winning the vote early next week.

"From now until Tuesday there is going to be a lot of campaigning," said Steve Powers, co-chair of the Homecoming Committee and last year's male Leader of the Pack.

Scale

Continued from Page 1

Students have mixed feelings about whether a new grading scale would prove beneficial.

"That would help me. Last semester, I had high 80s, like 88s and 89s, and I just got a B," said I-Hsin Lee, a sophomore in chemical engineering. "But in another class, I got low 90s and still got an A. But, overall, I think it would help me."

Other students feel that the new grading scale would make no difference in their overall GPAs.

"I feel it really doesn't matter," said Fabienne Rogers, a freshman in computer engineering. "You're still graded on a 4.0 scale. It can help, but it can also hurt."

"I don't like the plus/minus system, because it can hurt as well as help you," said David Whitley, a freshman in mechanical engineering. "It really doesn't matter, though. It's useless, and it's just a lot of trouble."

Others feel this system would assist in more clearly distinguishing students' differing abilities.

"I think it would be a good thing because it would be very helpful in separating the average students from the above- and below-average students," said Tari Johnson, a freshman in pre-Med. "This way students would get the grade they do or do not deserve."

Contest

Continued from Page 1

Library, and on Centennial Campus," Borden said.

The voting booths will be open from 9 a.m. until 3 p.m., Borden said.

The personal interviews, the



NCSU '92 HOMECOMING

ANSWERING THE CALL OF THE WILD

NOVEMBER 16-17

9am - 3pm Student Body Vote (Leaders of the Pack) (Tunnel Inn, Library Atrium, Textiles Shuttle Inn)

NOVEMBER 18

11am - 1pm Car Smash Brickyard (co-sponsored by Student Wolfpack Club)

7pm Do You See What I See? 3712 Bostian (Diversity Issues Forum: Empowering People for Change)

NOVEMBER 19

8pm Band Party & Pep Rally, The Garage, 3112 Hillsborough — featuring Plutopia & Mr. Potato Head \$5 NCSU students, \$6 others.

NOVEMBER 20

1 - 3pm Banner Contest Judging, Reynolds Coliseum

7 - 12pm HBO's Original Def Comedy Jam & NCSU Ultimate Step Show, Reynolds Coliseum

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Answers To Today's Cryptquip

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Pack and Devils go at it Saturday

By Bill Overton
Sports Editor

On paper, 14th-ranked N.C. State should manhandle 2-7 Duke Saturday in Carter-Finley Stadium.

Then again, football games aren't played on paper. That's why both teams will still be playing the game, slated for a 12:10 p.m. kickoff. And if the past is any indication, it might be wise to take the 17 and a half points that the Wolfpack is favored by with a grain of salt.

Head coach Dick Sheridan certainly isn't going to take the Devils lightly.

"This game has always been a hard-fought, evenly matched, down-to-the-wire contest," Sheridan said. "For whatever reason, the games in this series seem to come down to some late, extraordinary play. I guess from the fans' point of view, it has been a fun series to watch. I'm not sure either coach would agree to that."

Case in point was last year's thriller in Durham. The Wolfpack came from behind twice in the last

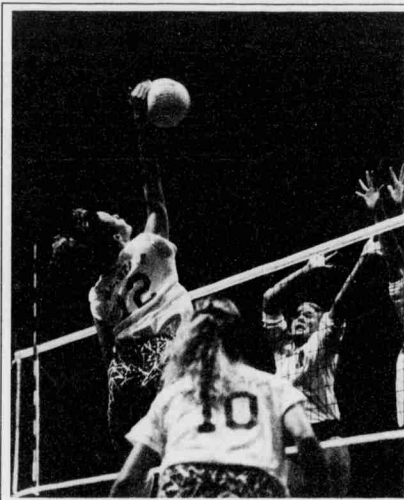
quarter to escape with a 32-31 win. Under the guidance of freshman Terry Harvey, State marched down the field for 10 points in the last two minutes.

In 1989, Duke got the better of the Wolfpack despite an NCAA record 73 passes thrown and ACC record 535 passing yards by Pack quarterback Shane Montgomery. Much of the series reads that way. It spells a lot of enjoyment for the fans, but it also means a lot of headaches for the coaches.

The Pack has a lot on the line in the next two weeks. If State can get by the Devils and handle Wake Forest, then it appears in line for a Gator Bowl bid. But a loss could change that in a hurry.

The Blue Devils, losers of their last four games, are hurting. Duke is coming off a disappointing loss to the rejuvenated Wake Forest club, and that has head coach Barry Wilson taking some heat.

"I'm not going to lie and say we played well, because we didn't,"



Susan Dew will play her last regular season match tomorrow at FSU. Simon Kelly/Staff

Dew keeps going despite operation

By Bill Overton
Sports Editor

There was never any doubt. Despite having her right kidney removed during last year's Christmas break, senior Susan Dew returned for the 1992 volleyball season. And the senior has never looked back at the decision to continue playing the game she loves.

"I could be in a lot of trouble if something went wrong," Dew explained. "People were saying things like, 'Susan, don't roll; don't do this.' But, it really doesn't bother me. I really don't know why."

Surprisingly, Dew has had one of her better seasons with the Wolfpack. She has played 68 of the Wolfpack's 101 games and sports 128 kills, good enough to place fourth on the team. Dew's hitting percentage stands at a respectable .215 with one game remaining tomorrow night at Florida State.

Or maybe the numbers aren't so

surprising. Dew put in some long hours at the weight room this past summer and came to fall practice in her best physical condition ever. That impressed head coach Judy Martino.

"The doctors told Susan that she had to be in good shape when she came to practice," Martino said. "She had a great spring and worked really hard this summer, which paid off."

Dew's '92 season has to be a relief after a disappointing 1991 campaign. Her junior season was an emotional roller coaster. After starting the first several matches, she was benched to make room for the younger, quicker players. In '92, she has regained some of the confidence that eluded her last season.

It hasn't come that easy for the rest of the Pack. State lost its first three matches in a horrendous showing at a tournament in Williamsburg, Va. The Pack then

See WOLFPACK, Page 4

See DEW, Page 4

Volleyball team travels to Tallahassee looking for first ACC win

By Kevin Brewer
Assistant Sports Editor

Riding a seven-game losing streak and winless in the ACC, the N.C. State volleyball team is in serious need of a confidence-building win.

State almost made a small resurgence Saturday against Georgia Tech in a hard-fought, five-game match before losing the deciding game 20-18.

"They did a lot of good things," State coach Judy Martino said. "It wasn't that they just played hard, they got the block together. They stayed back on defense.

They didn't miss as many serves. "There was a turnaround in their attitude. We're still physically capable of beating some of these teams. It's really hard to pick yourself up after so many losses, but at least we know we're in the hunt."

The Wolfpack, 11-16 overall, will travel to Florida State Saturday for its last opportunity for a conference victory. With the ACC Tournament only a week away, the FSU match is even more of a key test for the Pack.

Martino already knows that State will be the eighth seed in the tournament next weekend in College Park, Md. The Pack

will face Duke, who has clinched the top spot and defeated the Pack twice this season in three-game matches.

FSU, on the other hand, is 5-1 in the conference and riding a streak in the opposite direction. The Seminoles, 22-5 overall, had won their last 11 matches heading into their Thursday contest with Central Florida.

"We beat [FSU] last year, so that's an edge we need," Martino said. "We know that if we can play like we did at Georgia Tech we should have a good match at Florida State."

The Seminoles are led by ACC Player of the Week Bianca Stevens. The senior mid-

dle blocker from the Virgin Islands totaled 58 kills with a 489 hitting percentage last week and has 273 total kills on the season.

Luiza Ramos, a native of Brazil, will also accent the Seminole attack. The sophomore outside hitter has recorded 361 kills and 333 digs through 27 games this season. "She's one of their more dynamic players," Martino said of Ramos. "She hits well. She hits around the block. If we can stop her or at least contain her, we have a pretty good shot at them."

Pack middle blocker Tenekah Williams continues to rank among the conference leaders in blocks per game. The 6-foot-2

junior is averaging 1.36 blocks per game and has a total of 117 blocks for the year to place her second in the conference.

Lisa Kasper is expected to help the Pack mount an offensive attack and grab a victory. The senior outside hitter has registered 276 kills, 262 digs and 50 total blocks.

"She played really well [at Georgia Tech]," Martino said of Kasper. "When the team starts playing well, she plays exceptionally well. I think she'll be strong for us."

Swimmers host Big East opponent

By Jennifer Bouck
Staff Writer

Putting a perfect 6-0 record on the line, the N.C. State men's swim team looks to hold its own, just as the women's team hopes to improve on a 4-2 record, when the Syracuse Orangemen come to town Saturday for the first-ever meeting of the two teams.

Syracuse, from the Big East Conference, has started the season with a pair of 1-1 overall records. Both the men's and women's squads defeated the Canadian National B team in the two's first dual meet of the season. Late in October, both squads were narrowly defeated by Pittsburgh, with the men falling by only one point.

"It's going to be a heck of a contest," head Wolfpack coach Don Easterling said. "They have some very good swimmers who are going to be a challenge for our teams. Hopefully we will stop the meet from coming down to the last relay and get it over with sooner."

In the Wolfpack men's meets with South Carolina and Kentucky the past two weekends, the outcomes depended heavily on the finishes of the final relays.

"Their men are extremely strong, but their women aren't quite as good," Easterling continued. "We still have a lot of tired people from this past weekend. Hopefully having Tuesday off will have put us back on track for Saturday."

Expected to challenge State's men will be Jay Craft, a national-level distance swimmer, Jamie Secor, a freshman backstroke, and Seth Williams, a sprint freestyler.

In addition, the 17 Orangewomen will look to overcome the Lady Pack with the leadership of Laurie Kasch, a junior specializing in distance freestyle and butterfly; Salote Helu, a rookie backstroke; and Katie Dolan, another rookie who specializes in the breaststroke and individual medley.

"Secor is a really good backstroke," Easterling said. "He is of a

caliber at or above Chucky [Cox]. He already swam times faster than Chucky has this season in his first two dual meets."

Last year, Cox won the 100-yard backstroke, broke the conference record at the ACC championships and was the Junior Nationals-East champion in the 100-meter.

Runners take first step in NCAA qualifying

Sports Staff Report

Coming off their sweep of the ACC championships, the N.C. State cross country teams will try to keep their momentum in this weekend's NCAA Region III Cross Country Championships.

The Championships, which will be hosted by Furman University,

offer nearly as much incentive as the ACC championships for the Pack. The top-two finishing teams from each district automatically qualify for the NCAA Championships. In addition, the top-three individual finishers in each race gain automatic berths to the NCAAs.

Last year, the Wolfpack had

strong showings, as the men's team finished second in its 10K race, edging ACC rival North Carolina by one point. The women's squad, however, had a much easier time in its 5K race, beating out second-place Georgia by 54 points.

North Carolina, along with Wake Forest and the rest of the ACC will

be among the field competing at Furman. East Carolina, Appalachian State and UNC-Wilmington will also participate.

The women's race will start at 10 a.m., and the men's will begin at 11 a.m. Both runs will take place on the Furman University Golf Course.

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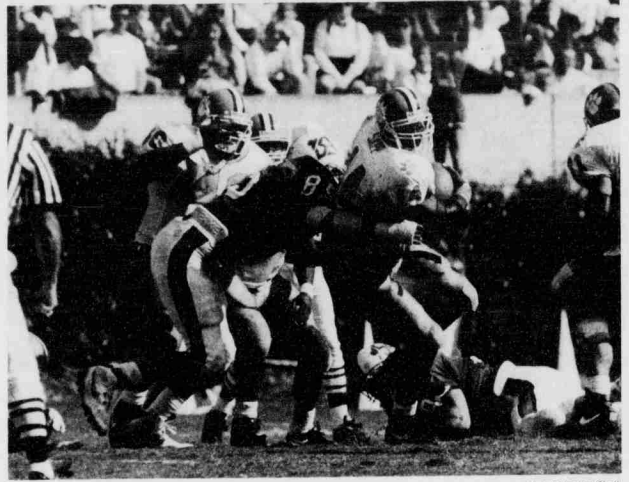
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Mark Schaffter/Staff

Defensive tackle Carl Reeves (85) has caused plenty of havoc for the Pack with 68 tackles, 17 of which have been for a loss.

Wolfpack hopes for major bowl bid

Continued from Page 3
Wilson said. "I'm very disappointed in our play against Wake Forest, but that doesn't mean we are just going to lie down the rest of the year."
The Devils have always had a potent offense, but normally their defense is their downfall. That hasn't always been the case this year, however. At times, the Duke defense has been stingy, giving up

only 21 points to high-powered Clemson and 20 points to explosive Georgia Tech.
The Devils aren't very big, but they are experienced along the defensive front. Tackles Warren Scoville and David Watle anchor the line, while safeties Derrick Jackson and Sean Thomas play the pass.
"Duke starts eight seniors on defense, so it's a group that has been around for a while," Sheridan

explained.
Duke will begin with Spence Fischer at quarterback. Fischer has thrown for 1,331 yards and eight touchdowns through eight games. Coupled with big, powerful tailback Randy Cuthbert, the Devils have a formidable offense.
Add to that some big-play receivers in Stanley Dorsey and Brad Breedlove and it makes the Devils look much less like a 17-point underdog.

Dew

Continued from Page 3
picked up and even won eight of 11 matches. Unfortunately, they are currently in a seven-game slide and a lot of that failure falls on the upperclassmen.

The senior class of Dew, Lisa Kasper, Alice Commers, Christy Buss and Holly Clifford has been unable to perform consistently as a unit during their four years. No one

can fault them for effort. It just hasn't turned out the way they would have liked it to.
"We all had really high expectations," Dew said. "It was really frustrating at William & Mary. Coach wasn't upset with us. She knew we were trying. Our problem, for the most part, was mental."

Dew came to Raleigh after a stellar high school career at Forsyth Country Day School. She was selected as the team MVP for the 1988 state champion team.

Dew narrowed her college choices to Georgia, Tennessee, Florida State and UNC-Charlotte before

finally committing to State.
"The atmosphere really appealed to me at State," Dew said. "I don't think I would have been able to go too far away."

Dew, a communication major, is on schedule to graduate in June. Right now her career is undecided.

"It's up in the air," Dew said. "I'd like to try to get a job out in the real world."

Whatever she decides, Susan Dew has overcome a huge obstacle in her life. And it's one of many she will overcome.

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Good day sunshine

Solar House sheds light on alternate energy

By Hunter Morris
Frontiers Editor

A small house near McKimmon Center is enlightening people about solar technology.

The Solar House is a fully functioning house used by the College of Engineering to study solar energy technology. Carole Coble, manager of the Solar House, said. It was built in 1981.

The house is run by the N.C. Solar Center, or NCSC, a department in the Industrial Extension Service.

Herb Eckerlin and Al Boyers, professors in mechanical engineering, and Ray F. DeBruhl, a professor in civil engineering, came up with the idea for and helped design the Solar House.

"It would be a solar demo [house], decorated so people could come through and see how it works as well as be an ongoing engineering project," Coble said.

The house is an ongoing science project. There are 260 sensors built into the house that help yield solid information to persuade people to use good solar energy concepts, Coble said.

There are several solar applications being tested in the house at any one time. Among these are trombe walls, solar hot water collectors, a sunspace and photovoltaic modules.

Trombe walls are masonry walls, for example bricks or concrete blocks, that are covered by glass on the outside. The glass traps heat between the outside air and the wall.

The warm air inside the glass can be circulated into a room using natural convection. Warm air rises and flows into the room from the outside, while cold air is drawn to the glass-enclosed area outside to be

warmed.

The models for the trombe walls are southwest Native American adobes. In hot southwestern summers, the adobe construction keeps the inside of the buildings cool.

The NCSU Solar House has two trombe test walls made up of different materials. One wall is made of brick and the other concrete blocks. Both walls are 12 inches thick.

Coble said tests with the walls shows that the brick holds heat longer in the winter and the concrete releases heat better in the summer.

Coble said both walls work quite well in the winter when the sun is shining. Both walls overheat in the summer, but a tree could be used to shade the wall during the summer.

Solar hot water collectors are located on the roof and heat all of the water used in the house.

Facing the south, the sun space is the house's main source of heat. Its inside temperature ranges from 78 to 85 degrees Fahrenheit (26-29 C). The house uses \$70 per year on heating costs.

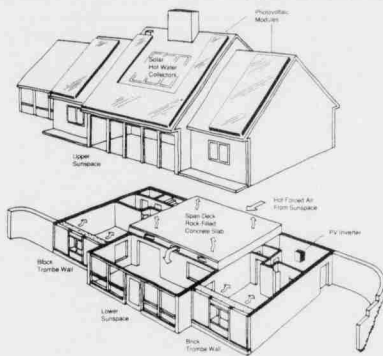
According to Coble, putting most of the windows on the south side of the house is one of the easiest and cheapest ways of using solar energy.

Photovoltaic, or PV, modules are used to create electricity for the house. The PVs convert sunlight into electricity.

"We expect with the PV system to get about 50 percent of the electricity needed for the house," Coble said.

CP&L, one of the sponsors of the house, designed a special meter for the PVs that show the amount of electricity they are producing.

A computer in the house displays the performance of the PVs at the



Graphic/Courtesy of NCSC

This cutaway view of the solar house shows what solar technology it uses to decrease costs.

current time. CP&L also provides the NCSC with a computer printout that details the energy usage of different appliances in the house.

One of the unique features of the house is that all instrumentation and monitoring is shown to the visitors.

Also on display around the house are several solar products, such as solar-powered motion-detector lights, a solar-powered scooter, and a solar-powered mailbox.

"The solar panels on the mailbox are used to light the numbers," Coble said.

The Solar House, besides being a large experiment, is a fully functioning house. Since it opened three or four graduate students associated with the project have lived in the house. No graduate students have lived in the house since the NCSC moved some of its offices into the house.

Visitors are encouraged to drop in and visit the house at any time. Last year 76 groups, including school groups ranging from junior high to the university level, visited the Solar House.

More people, especially teachers,

ask about the center each year, Coble said.

Coble said the NCSC acts as a dissemination center for solar energy information, letting people know who can answer their particular questions. It is becoming a database for builders, dealers and manufacturers.

People with questions about solar applications are encouraged to call the center for help.

"We learn from each question," Coble said.

Panels' efficiency improved

By Andrew Lloyd
Staff Writer

Sun worshippers beware. Photovoltaics research and application at N.C. State University will one day soak up all your rays.

Jagdish Narayan, a professor in materials science, explained that solar cells convert photons from the sun into electricity.

In a solar cell, there are electron donors and acceptors, the intersection of these two is where the electricity is produced.

Narayan, who received a National Science Foundation Distinguished Service Award for his stint as director of the Foundation's Division of Materials Research, is developing "an efficient and economical method of producing solar cells by using lasers."

But one of the most recent breakthroughs did not lie in producing solar cells.

Rather, they used a laser to produce thin films of diamond to use as advanced integrator circuits.

Integrator circuits are used to control distribution of electricity from the production in the solar cell.

Another recent advance in their research is 1-2-4, a high temperature super-conductor. 1-2-4 is a discovery that may one day lead to transmission lines with zero energy

loss.

Salah Bedair, a professor in electrical and computer engineering who recently won an award from RJR Reynolds for Excellence in Teaching, Research and Extension, is working to increase the panel's conversion of solar energy to electrical energy from 28 to 30 percent efficiency.

Bedair, who has been working in the field of photovoltaics for 12 years, is stacking solar cells in an attempt to improve conversion capacity. Solar energy that previously passed through a single solar cell is now captured by stacking the cells, a process called cascade.

"Rather than using one solar cell with the chance that some solar energy will not be converted, [our] research relies on the use of multiple junctions stacked [one on top of another], and each will absorb part of the spectrum in a more efficient way," said Bedair.

The advances in photovoltaics will increase the number and usage of potential applications.

"Photovoltaics is undergoing a sustained orderly development; not overnight improvement, but continued investment will make it a real live thing," said Bill Brooks,

See Panels, Page 8

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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 activity and in fact the very life of the campus are registered. *College life without its journal is blank.*
Technician, vol. 1, no. 1, February 1, 1920

After the disciplining

The Code of Student Conduct at N.C. State University holds the student body to a higher standard of behavior than even the legal statutes of North Carolina and the federal government. The rationale behind the university's expectations of its student body is that a man or woman who seeks a higher education should have higher personal standards.

For the most part, the Code of Student Conduct is fair in both its provisions and expectations, but it could be improved.

The standard for conviction in a criminal court is that the accused be found guilty "beyond a reasonable doubt." That is, a jury or judge must believe that there is no reasonable possibility that the suspect is innocent, based on the evidence given in court. In the disciplinary procedures at NCSU, administrators must have "clear and convincing" evidence of guilt in order to punish the accused. The clear and convincing standard is more easily reached by a disciplinary apparatus than the beyond a reasonable doubt standard.

The rationale behind this policy is understandable. Students in a campus environment should be more easily and quickly punished if they commit a serious crime, especially against another student. A reasonable doubt standard would be too serious of a burden on administrators, and students would go unpunished frequently.

As a result, students would be less protected from crimes committed by other students.

But if practicality prescribes that a more easily-proven standard be applied to student conduct, then the punishments themselves — suspensions and expulsions, especially — shouldn't be overbearing for students after they have been through their discipline. Students suspended from NCSU will usually receive no refund if they were suspended while a semester was in progress, and they usually receive no-credits rather than incompletes.

A no-credit never goes away. Such a mark, especially an entire semester of them, can devastate an overall grade point average. In effect, such a punishment stays with a student throughout college, and potentially harms a student's welfare after graduation. Financially, paying for an extra semester of college, which in effect is what suspended students must do when they are denied refunds, is often impossible.

If the safety of students, staff and faculty at NCSU requires that punishment come quickly to those who commit serious rule violations, then so be it. However, a punishment shouldn't linger forever, especially one that isn't proven beyond a reasonable doubt. Discipline is necessary for the effective and safe functioning of NCSU, but any punished student deserves a clean slate on which to rebuild his or her college career.

Technician is dedicated to accurate and relevant coverage of the NCSU community and issues which may affect students, faculty and staff. If you have any suggestions, or if you see something happening that you think we should cover, please don't hesitate to contact us.

Ask for Eric Liebhauser or Dee Henry in news, Bill Overton

or Puan Wallace in sports, Dan Pawlowski in happenings, Hunter Morris in frontiers and Chris Hubbard or Russell Deatherage in opinion.

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Technician welcomes Forum letters. They are likely to be printed if they:

- deal with significant issues, breaking news or public interest.
- are limited to 300 words.
- are double-spaced
- are signed with the writer's name, and, if the writer is a student, his/her major.

The Forum is for the N.C. State community to voice opinions on all

newsworthy topics.

Technician will consider all submissions, but does not guarantee they will be published.

All letters are subject to editing and become the property of Technician.

Letters should be brought by Suite 323 of the Student Center Annex or mailed to Campus Forum, P.O. Box 8608, University Station, Raleigh, NC 27695-8608.

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Columns

Freedom and justice needed for all

Recently, I received an anonymous letter from a Native American student. I felt his comments were important enough to call for an interruption of my series on the "Four Schools" of African-American Leadership. We will return to that next week.

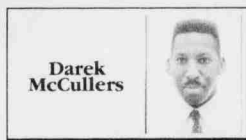
This student said some things with which I disagree and agree. I disagree with his assertion that African-Americans are black white men. I disagree with the notion that African-Americans have it easy. Finally, I disagree with his assertion that I should divert my energy to be involved with the Native American Association.

Conversely, I agree with two things that this person said. I agree with the fact that the European colonialists took the places that were occupied by the Native Americans. I also agree with the contention that Native Americans have been the victims of oppression.

African-Americans are a people who have been put in a peculiar situation. When our slave masters brought us here from America, they made every attempt to make us forget the place of our origin — Africa. America can be thankful that my forefathers could not forget their homeland. A unique African-American culture evolved, resulting from vestiges of our African ancestry and the impact of our experience in America.

African peoples can suffer serious emotional and spiritual damage in their attempt to adjust to the reality of life in America's white Anglo-Saxon Protestant-dominated world.

If we try to uplift the side of us that is African, we are accused by fellow Africans of denigrating our ethnicity. If we



Darek McCullers

try to uplift the side of us that is African, we are considered extremists and are denied access to the American mosaic or network that can lead to success in life. Given this scheme, we are in a lose-lose situation.

The only way for us to survive is to seek harmony, integration and unity within our selfhood. We must seek to remember the past and let it provide perspective for the future. We can't be overwhelmed by oppression, but transformed through it. As the biblical character, Job, we should say: "through my trials, I will come forth like pure gold. Through my people's trials, we will come forth like pure gold."

This is not the black white man, this is the African-American.

The author of the letter criticized African-Americans as always complaining and stated that I should devote some of my energy to the Native American Association.

The shortcoming of this criticism is the fallacious assumption that African-Americans have no interest in what happens to the Native Americans. This is untrue for two reasons.

First of all, many African-Americans have Native American ancestry, such as myself. My great grandmother was a Lumbee

Indian. Second, the interest of many African-American leaders including Malcolm X was to see America live up to its creed of freedom and democracy for all people, including Native Americans.

What we all need is true freedom and justice. We all should strive to form a more perfect union.

America is increasingly plural. That is to say composed of more than one kind of people.

However, we have a long way to go before we can be multicultural. That is to say composed of, pertaining to or designed for several cultures.

My agenda for progress is rooted in a belief that many cultures share; it is a belief that is taught in Chinese, Indian, African, Native American and Christian faiths: "Harmony within leads to change without."

I have harmony within because nobody can take away my Africaness. I am constantly working to decode my mis-education by a Eurocentric system. I have harmony within because nobody can take away my personhood; it is rooted and grounded in a God of love who became nobody to make me somebody. Finally, nobody can take away my vision for a better America. This is a government that was created to promote liberty and justice for all.

My program of action includes education designed to promote self-improvement and strategic socio-political action. I challenge Native Americans and all Americans to make their programs of action known and act upon them because I can't be all things to all people. More important, I have to be true to myself.

Coffee stand needs more than caffeine

I am writing in regards to the coffee stand in Caldwell Lounge.

I stop there almost every day before class. The location is convenient to me, and it is easier for me to buy a cup there than to make a pot at home. However, I am disappointed with the management of the stand.

When I purchase a cup of coffee there, I always bring my own coffee mug. But almost every time I go there I am charged a different price. Usually the cost is 25 cents if you provide your own cup, but I have been charged up to 55 cents.

Many times the coffee is hardly even lukewarm. I cannot speak for everyone, but I prefer my coffee hot, not tepid. One of my main concerns is the use of plastic foam cups.

At a university such as ours that prides itself on preserving the environment (i.e. recycling and conservation), the use of plastic foam seems to be somewhat contradictory.

The people that work at the stand are very friendly, and I will continue to go there for the caffeine kick. But I think the management needs to become more organized and more businesslike.

Marion A. Lumsden
 Junior, Communication

Library copiers need more service

I have been a student at NCSU for just over four years, and I would like to bring a



problem to the library's attention.

There is a severe deficiency in the number of copying machines located in the Reserve Rooms at D.H. Hill Library.

It seems like every time I try to go copy some reserve material, there is a long line of others waiting to do the same.

I have seen this problem become compounded, on more than one occasion, when one of the machines breaks down.

The Reserve Room is a valuable location for teachers to leave supplementary information for those students that wish to study beyond the required readings.

The usefulness of this is limited due to the fact that any materials in this room must be checked out and some may not be removed at all.

The difficulty and time required to make copies of the material discourages the use of this resource. The library should take some steps to make a more efficient use of its resources.

There are a number of copying machines located just outside the Reserve Room. I would suggest that one or more be moved into the room to supplement the existing two.

This would not limit their use in copying other library materials because you may bring any books that you would like, into the Reserve Room.

James W. Anthony, Jr.
 Senior, business management

After you've voted, stay involved

As I sat glued to the television on election night, I felt a sense of pride in the fact that so many Americans were able to unite in a common vision. Voter registration increased significantly for this election, and, as CBS reported, approximately 75 percent of those registered made it to the polls to cast their vote. Americans simply got involved.

As encouraging as such pre-election involvement sounds, however, a new problem arises with the sun the morning after Election Day. Voter interest and involvement in the debated issues dramatically declines. Americans drudge back to their everyday routines relinquishing their duties as concerned members of this country. Excited debates between friends, relatives, and even enemies over relevant issues are practically non-existent.

Unfortunately, most of us feel satisfied that we have done our part in reforming America once we turn in our ballots.

The solution I propose is to encourage everyone to maintain their pre-election interest and involvement in the issues at hand in our country today. Realize the fact that you still have power. Your voice still counts. If you want to make a difference in what you believe in, follow your candidate to office. Keep track of the way he runs his office. Call your political party's headquarters to keep up to date with all relevant happenings, and inquire as to how you can get more involved. America belongs to the people so let's take advantage of that influence even after the election is over.

Regena L. Allen
 Senior, human resource development

classifieds

November 13, 1992

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VOLUNTEERS NEEDED FOR FEVER AND ASTHMA STUDIES

- Individuals 18 years and older with a recent onset of fever associated with a cold or flu needed for a short research study. \$50 paid incentive if qualified to participate.
- Individuals 12 years and older on daily asthma medication needed for research studies. Up to \$600 paid incentive for those chosen to participate.

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Days	1	2	3	4	5	6	7	8
Line 1	2.48	4.68	6.60	8.75	9.63	10.73	5.01	5.51
Line 2	2.75	5.37	7.26	9.31	11.23	12.94	5.51	6.01
Line 3	3.14	6.34	8.82	10.69	12.71	14.35	6.01	6.51
Line 4	3.72	8.26	11.04	12.81	14.98	17.25	6.51	7.01
Line 5	5.00	10.66	13.94	16.13	18.26	20.79	7.01	7.51
Line 6	5.66	10.76	14.49	18.22	19.52	21.97	7.51	8.01
Aver	6.52	11.57	15.14	18.91	21.17	24.59	8.01	8.51

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CRYPTOQUIP

ODMW ZMOULDHUA
XMVSRUL WUXUDRUW HK
TSDZF: "M TDE'R SUAF
HUMEV D OCLU AQOUL"

Today's Cryptoquip clue: T equals C.

The Cryptoquip is a substitution cipher in which one letter stands for another. If you think that X equals O, it would 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 Lunch-ette
4 Obsessed seaman
8 Agile
12 Aah's mate
13 -con-tendere
14 Friends' pronoun
17 Streamlet
18 Laugh-a-minute
19 Net fabric
20 Hot, as a meatball
22 In wide
24 Bear lair
25 Paving material
29 Census datum
30 "Of Blue Eyes"
31 Waste no time
32 Philosopher
34 Took leave
35 gliding
38 Long-time pageant

DOWN
1 Marsh
40 "M-A-S-H"
41 "Rule Britannia"
42 Composer
43 Fre
46 Hairsa-nsance
46 Track
47 Tarzan's event
48 Shoppe
48 It causes I
10 Foster
11 Year-end
16 Pi-lat
19 essentially
19 Second sound?
20 Non-noun worker
21 Call on a booper
22 Trolley
23 noise
23 Worker
25 Correct choice
26 Poe opus
27 Word from the pan
28 Favorites
30 Unravel at the edges
33 "Go Fish" request
34 "U. S. Acres"
35 duck
36 Thick-nesses
37 Gilbert of "Rose-ance"
38 Pi-lat
39 Ernest
40 Put's two and two together
42 Tatoo world
43 Inventor
44 Whitney
45 Dis-cable

Find Answers to Today's Puzzles on Page 2.

Solution time: 26 mins.

Wheelwright still in control but Conroy is making the move

It's Week 11 in the 1992 Pigskin Picks, and with the race nearing the finish, it looks a lot like it did when it started.

For starters, Jeff "Chia Pet" Drew has returned to his familiar last-place home. Even though the Large Editor picked an admirable 10-5 harvest last week, the three pigsters already ahead of him went 12-3, keeping Drew two games into the cellar.

Ann Wheelwright continues the trend by perching on the first-place roost, one game ahead of Donna Gregory, Ed Conroy and A.C. Snow. Gregory has tag teamed with Wheelwright in this Battle of the Sexes to mob the top-two spots with 103-47 and

102-48 records combined. A.C. Snow makes it two journalists out of three pickers in the upper echelons with his 9-6 week and 102-48 combined records.

Let's not forget Ed Conroy. The assistant basketball coach has almost erased co-worker Al Daniel's putrid performance last year by positioning himself for the top spot with his second-place tie.

Behind the second slot logjam are the last pickers to post triple-digit win totals. Sports flunkies Kevin Brewer and Puan Wallace are the dark horse contenders here, combining 50.5 wins apiece for their 101-49 season. Two games behind them is

Tom Suiter with a 99-51 mark; about all he can do now is pick and pray.

Now we get to the write-offs. Mike Borden has put on his salary drive, but treading a weak total with a 12-3 week total. So did Bill Overton and Larry Campbell, tied for next-to-last with 97-53 records. The onus is on them to keep at least one game ahead of Jeff Drew and stay out of an embarrassing last place.

Just remember, pigsters, this year's winner will receive a free feed at the annual Technician Awards Banquet. With that thought in mind, remember that this year's dinner will be catered by either University

Dining or Food Lion. So, even if you win, you lose. Now for this week's fare:

With UNC sure to triumph over Off Date this week, there really aren't any matchups to poke fun at. Notre Dame will break in Penn State for the Blockbuster Bowl. Unfortunately for the Nittany Lions, they can't buy a good team like the Blockbuster Corporation has attempted to buy a prestigious holiday-bowl game.

Auburn will provide the other half of Garrison Hearst's Heisman-highlight footage this week. Even though Georgia hoots it to Tiger Town, Pat Dye's program ain't what it used to be.

Speaking of Tigers, the mewling Clemson kitties travel to Maryland in a game that was supposed to be a wash at the season's beginning. Another match-up that was originally a foregone conclusion is the Wake Forest-Georgia Tech affair in Notlanta. These two games should be as visually stimulating as June Allyson in a tatty and garter belt.

The Technician Game of the Week for Saturday, Nov. 14, is the Duke Blue Devils at N.C. State. The Wolfpack is likely to shred the Dookies, whose fan contingent has already turned its thoughts to basketball season.

Week 11



Bill Overton	Puan Wallace Kevin Brewer	Jeff Drew	Tom Suiter	Donna Gregory	Larry Campbell	Doctor Mike	A. C. Snow	Ed Conroy	Ann Wheelwright
Last Week 12-3	11-4	10-5	9-6	9-6	12-3	12-3	9-6	10-5	8-7
Total 97-53	101-49	95-55	99-51	102-48	97-53	98-52	102-48	102-48	103-47

N.C. State at Duke Clemson at Maryland Wake Forest at Ga. Tech Tulane at FSU Alabama at Miss. State Wash. State at Stanford Baylor at Rice Penn St. at Notre Dame Colorado at Kansas Georgia at Auburn Syracuse at B. College Ohio State at Indiana Southern Miss at VT Tenn. at Memphis State Arizona at Southern Cal	N.C. State Clemson Ga. Tech FSU Alabama Stanford Baylor Notre Dame Kansas Georgia Bost. College Ohio State Virginia Tech Memphis St. USC	N.C. State Clemson Ga. Tech FSU Alabama Stanford Baylor Notre Dame Kansas Georgia Syracuse Ohio State Southern Miss Tennessee Arizona	N.C. State Clemson Wake Forest FSU Alabama Stanford Baylor Notre Dame Colorado Georgia Syracuse Ohio State Southern Miss Tennessee Arizona	N.C. State Clemson Ga. Tech FSU Alabama Stanford Baylor Notre Dame Colorado Georgia Syracuse Ohio State Southern Miss Tennessee USC	N.C. State Clemson Wake Forest FSU Alabama Stanford Rice Notre Dame Colorado Georgia Syracuse Ohio State Virginia Tech Tennessee Arizona	N.C. State Clemson Ga. Tech FSU Alabama Stanford Baylor Notre Dame Kansas Georgia Syracuse Ohio State Southern Miss Tennessee USC	N.C. State Clemson Ga. Tech FSU Alabama Stanford Rice Notre Dame Colorado Georgia Bost. College Ohio State Southern Miss Tennessee USC	N.C. State Clemson Ga. Tech FSU Alabama Stanford Baylor Notre Dame Colorado Georgia Syracuse Ohio State Virginia Tech Tennessee Arizona	N.C. State Clemson Ga. Tech FSU Alabama Stanford Baylor Notre Dame Colorado Georgia Syracuse Ohio State Southern Miss Tennessee Arizona	N.C. State Clemson Ga. Tech FSU Alabama Stanford Baylor Notre Dame Colorado Georgia Syracuse Ohio State Southern Miss Tennessee Arizona
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Panels

Continued from Page 5

the solar engineering specialist at McKimmon Center.

Brooks said the future of electrical energy production points strongly to photovoltaics. He also said developing countries find photovoltaics extremely helpful as producing electricity on site because it costs less than establishing an infrastructure, such as in the United States.

Even in the United States, people who live in secluded areas don't want to spend tens of thousands of dollars putting in miles of power lines. They opt to use photovoltaics, which is about \$10,000 for installation.

Pressure to adopt photovoltaics for large electrical energy production will come from both economic and environmental concerns.

Solar energy is free, producing one kilowatt per square meter, and there will be no cost for fuels such as coal and oil to power generators.

Environmentally, photovoltaics won't damage the atmosphere, whereas fuel-burning forms of energy production do.

The future of automobiles may be foreshadowed by recent developments in Los Angeles where all cars must have zero emissions by 1998.

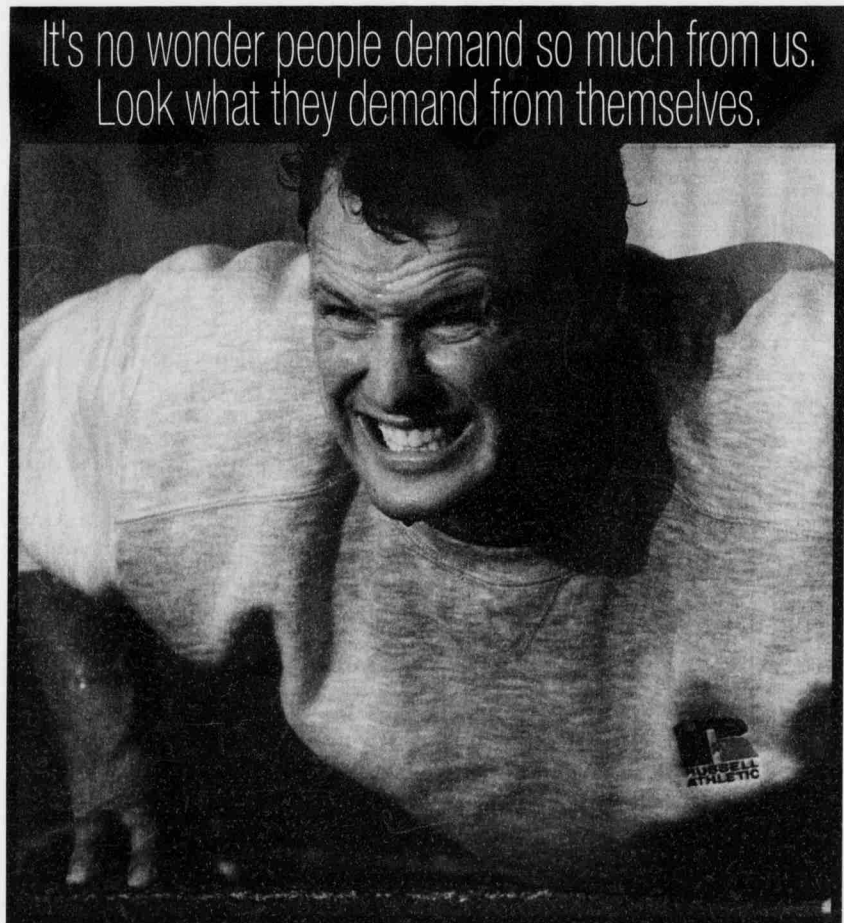
Brooks said electric-powered cars, both battery and solar-powered, would provide a way of meeting these standards.

Brooks also indicated that in space photovoltaics are the king of energy production because fuel-based power generation requires transporting fuel into space. Solar energy can be available constantly if the solar cells are in proper position.

Space-based energy production plants may eventually solve terrestrial energy production problems by establishing huge solar cell collectors in orbit and transmitting the energy to the earth via microwave.

Transmitter towers in the Rocky Mountains were one of the driving forces behind photovoltaic technology. Bell Labs sought to develop an energy system that wouldn't require extensive maintenance.

The previous systems were diesel generators, which would occasionally break down and need helicopters to fly in fuel supplies. Photovoltaics bypassed the need for fuel drops and routine maintenance, Brooks said.



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