

Technician

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Scale model of NASA Mars shuttle unveiled

By Celia Cotton
Staff Writer

Students and researchers from N.C. State, NASA and N.C. A&T State University unveiled a full-scale research model and cradle of the NASA HL-20 Personnel Launch System (PLS) on Friday.

The students and other participants involved in the creation of the model were presented with NASA achievement certificates by William Piland, chief of the Space Systems Division at NASA's Langley Research Center in Hampton, Va. Other speakers at the presentation included NCSU Chancellor Larry Monteith, N.C. A&T Chancellor Edward Fort and Fourth District U.S. Congressman David Price, who is a member of the House Committee on Science and Space Technology.

The fiberglass model was designed and built by 55 students from both NCSU and N.C. A&T with assistance from six faculty and staff members from the Mars Mission Research Center (MMRC). Most of the students had been members of a spring semester engineering design class and seven students were remained during the summer to build the model.

Thurman Exum, a professor in the department of manufacturing systems at N.C. A&T, served as the project leader in Greensboro, and Robert Vess, NCSU lecturer in mechanical and aerospace engineering, was the project director.

NASA's Langley Space Systems Division provided requirements for the vehicle's shape and geometry, but the structural design and external construction was left to be developed by the MMRC. After six months of planning, the design was reviewed on March 23 and construction



Parents and students observe the newest addition to NASA's space fleet at Parents' Day and Open House on Saturday.

begin the following day. A team from N.C. A&T will soon complete the installation of the interior components.

According to Vess, the proper dimensioning of the vehicle is the most important part of the current project. "If the HL-20 is actually built, it will be built with metal and stronger construction in order to withstand re-entry and landing," Vess said.

The HL-20 is one of two PLS concepts NASA is developing. Johnson Space Center is working on a capsule-shaped vehicle which employs a parachute landing system. Langley's HL-20 is designed as a "lifting body" which can make conventional, rock-

et-like takeoffs and runway landings. The lifting body concept increases the number of possible landing sites and allows for a more comfortable re-entry and landing, which could become important in the transport of sick or injured crew members to Earth.

The model, which is 29.5 feet long and has a wingspan of 23.5 feet, is designed to hold eight passengers and two crew members for a three-day journey. With its wings folded, it can fit into the cargo bay of a space shuttle. The HL-20 is designed to have an approximate weight of 24,000 pounds and be able to achieve speeds of 20-

25 thousand mph.

The cradle is a steel-truss structure 23 feet long and eight feet wide. It will be used to transport the vehicle and tilt it vertically for liftoff.

The PLS is currently being studied by NASA researchers as a possible supplement to the Space Shuttle Program. It would be used to carry personnel and small cargo to and from an Earth-orbiting space station, where a Mars spacecraft would be built and launched. Other possible uses for the PLS vehicle include satellite maintenance and astronaut rescue.

To launch a Mars spacecraft from Earth,

an enormous amount of fuel would be necessary, compared to the relatively small amount required to leave the weightless environment of the space station, said Fred DeJarnette, NCSU professor of mechanical and aerospace engineering and director of the MMRC. The spacecraft would return to the space station after visiting Mars.

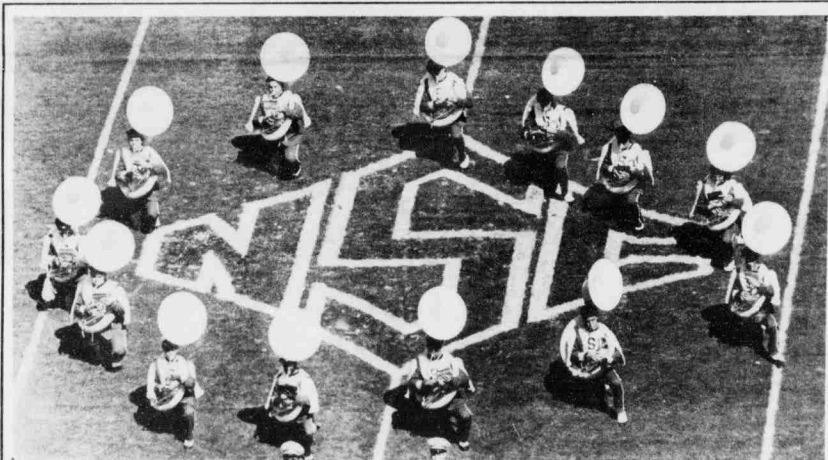
The model unveiled Friday will not be flown. Instead, it will be used for human factors studies at Langley and at Johnson Space Center in Houston, Texas. These studies will attempt to evaluate crew seating, control and equipment layouts which would facilitate easy maintenance and allow the crew to quickly enter and exit the vehicle.

A big contributor to the HL-20 project was Dean Driver, a 1985 NCSU graduate who has previously worked with Burt Rutan, designer of the Voyager. Driver's experience was helpful in the construction of the molded fiberglass shell.

This project was funded by a \$136,000 NASA grant and an additional \$35,000 of MMRC funds which had previously been set aside for the project. N.C. A&T reserved \$45,000 to build the cradle and to design the vehicle's interior.

Although the PLS has not been approved for official development by NASA, it is being considered as a future addition to the U.S. manned launch capability.

The Mars Mission Research Center at NCSU and N.C. A&T in Greensboro, is one of nine university research centers established by NASA in 1988. Proposed MMRC funding is \$8.4 million over five years with the two universities sharing the additional cost of \$2.8 million for facility positions, equipment purchases and new facilities.



Rick Rankins/Staff

In formation

The N.C. State Marching Band show their stuff during the halftime show of the NCSU-Wake Forest football game on Saturday afternoon.

Alpha Phi sorority opens chapter at NCSU

By Jeff Donovan
Staff Writer

Alpha Phi, an international sorority with 136 chapters in the United States and Canada, has been invited to colonize at N.C. State this fall.

The invitation to colonize was extended last semester by Drew Smith, assistant coordinator of fra-

ternities and sororities with the Department of Student Development.

Smith and others plan to charter the sorority by late this fall or early next spring.

"There is a demonstrated need for sorority expansion at NCSU," Smith said. "I am very excited to have Alpha Phi at State and I feel

they will be a viable group from the start."

Alpha Phi has chapters at East Carolina University and UNC-Wilmington.

Jennifer Glass, the colony supervisor and a traveling consultant with Alpha Phi, said she is optimistic about the colony.

Glass said that Alpha Phi already

has strong alumni support in the area and she hopes to have 100 charter members at NCSU.

One possible problem would be creating a sense of unity among so large a group of women. She said one way to achieve this would be through mixers, intramural sports and participation in this year's homecoming activities.

Professor at N.C. State to serve on Morris Animal Foundation board

By Keith Jordan
Staff Writer

An NCSU professor has been chosen to serve on the advisory board of the Morris Animal Foundation, a national organization dedicated exclusively to improving the lives and health of companion animals.

Dr. Elizabeth Stone is the first woman, and the second member of the faculty at the NCSU College of Veterinary Medicine (CVM), to take a seat on the prestigious six-person board. Stone is a professor of companion animal and special species medicine in the CVM.

"The Morris Animal Foundation is unique in that it funds research for the benefit of

the animal" rather than as a model for future research work on humans, Stone said.

The foundation receives money from private donations and fundraisers from people or organizations who want research done in a specific area but realize that administrative costs would make the research prohibitively expensive without help.

Interest from endowments pays for administrative costs, so all money donated goes directly toward research, Stone said.

Stone's research focuses on problems of the urinary tract and on the body's response to injury. As an instructor, she teaches surgical principles to juniors and guides seniors in veterinary surgery at the CVM.

Stone said she expects to learn a great deal from the experience because advisory board members monitor the projects the foundation funds in addition to selecting which applicants for research receive the funding. Out of about 300 applications for funding each year, the advisory board approves only 20 to 30 requests.

Board members must travel extensively. Each member makes local and regional trips to monitor funded projects and to attend the national meeting, with the next one scheduled to take place in San Antonio.

But Stone said that the 10 to 14 days a year normally spent on foundation activities by board members would not affect her

work at NCSU.

"I have very good people that I work with," she said. "We will just shift our schedules around."

Art Aronson, department head of Anatomy and Physiological Sciences and Radiology at the CVM, previously served on the board.

"It's a tremendous organization," Aronson said. "I think Elizabeth Stone is going to be very valuable to the foundation."

CVM Dean Terence Curtin said that he was proud of Stone and the other members of the College's faculty. "They are all contributors," he said.

Curtin said that having two Morris

Advisory Board members in the College's single decade of existence supports the impression that he has gained from talks

with faculty at other veterinary schools — that NCSU's CVM ranks the top in reputation among the nation's 27 veterinary schools.

"It's gratifying to see us be there," he said. Stone grew up in Arizona. She received her Doctor of Veterinary Medicine degree

from the University of California at Davis in 1976. She interned at the University of Georgia, then joined the faculty at the University of Pennsylvania before coming to NCSU in 1984.

Budget cuts reduce D.H. Hill hours

By Kimberly Tenai
Staff Writer

N.C. State's library hours have been reduced this semester because of budget cuts and will be further reduced on Sept. 24, said Charles Gilreath, assistant director of public services for NCSU Libraries.

These new operating hours are tentatively scheduled for: 7:30 a.m. to 10 p.m. Monday through Thursday, 7:30 a.m. to 6 p.m. on Friday, 2 p.m. to 6 p.m. on Saturday and 2 p.m. to 10 p.m. on Sunday beginning Sept. 24 and ending Jan. 8, 1991.

D.H. Hill needs to reduce its hours because N.C. budget cuts decreased the library's \$9 million budget by \$339,000 in late August. Branch library schedules will also be reduced, but hours will be extended during exam periods.

During the first fiscal quarter of this year, July through September, the library was \$75,000 over budget. As a result, four full-time positions were eliminated, and D.H. Hill has a staff shortage. The library is unable to fill 25 positions that are needed, because these positions would cost \$200,000.

Personnel and operating hours are not the only library departments to suffer. D.H. Hill has decreased the journal subscriptions' \$2 million budget by \$300,000 to pay bills.

Gilreath explained that while the library's budget has decreased, the publishing field has increased its prices by 20 percent.

As a result, 11,000 journals have been canceled during the past three

years to meet rising costs. By the end of October, 22,000 more subscriptions will be canceled.

Even with present budget cuts, NCSU Libraries are still short \$339,000. The libraries must compensate by lowering operation costs and collection budgets. Temporary employee wages (mostly student wages) will be reduced by \$60,000. Gilreath said that students and parents should write to the state legislature to protest the budget. This will be the most effective means of changing the situation.

Gilreath said the library will be as creative as possible in order to save money and keep its doors open. It will ask for volunteers whenever feasible.

Library officials are trying to find a happy medium between long hours and poor service and short hours and good service. Gilreath said he sympathized with students.

"It's awful. I was a student once and I know going to the library whenever you can is important.

"Right now the library is trying to balance a lot of goods, or maybe we should say evils."

Further budget cuts are possible in the near future, Gilreath said that he has no notion how long this will go on. "People have to realize that the library is like utilities — water pressure and voltage get low."

Although the students are affected while they attend NCSU, it is the university which will suffer in the long run. NCSU faces the potential loss of qualified professors and might turn away prospective students.

FYI

Sept. 17, 1990

IMPORTANT DATES AND ANNOUNCEMENTS

The last day to withdraw or drop a course at the 400 level or below is Thursday. This is also the last day to change from credit to audit at the 400 level or below and to change to credit-only status.

The last day to withdraw or drop a course at the 500-600 level is Oct. 26.

Voter Registration for state and local elections will be Wednesday from 11 a.m. to 2 p.m. at the University Student Center.

ATTENTION UNDERGRADUATE AND GRADUATE WOMEN STUDENTS! Women Student Concerns is sponsoring an information session on Wednesday from 4 to 5 p.m. in the Green Room of the

University Student Center. Come find out what sexual harassment is, how to avoid it and what your rights are as a student.

The Commencement Committee requests that faculty, staff and students nominate individuals as principal speaker for May 1991 Commencement Exercises. Send nominations to Commencement Committee, c/o Kathy Cleveland Bull, Box 7306 no later than Sept. 24.

SPECIAL EVENTS

The CHASS Council will meet tonight at 6 in Room 12 of Winston Hall. Attendance is important because funds for the semester will be given to the clubs.

AMNESTY INTERNATIONAL, a human rights organization will have a meeting on Tuesday at 7:30 p.m. in Room 178 of Hargett Hall. Anyone interested is welcome to attend.

An International Coffee Hour will be Thursday from 11:30 a.m. to 1:30 p.m. in the lower lounge of Alexander Residence Hall. This

week's guest sponsor is the Mennonite Church of Raleigh.

THE PRIVILEGE OF SERVING, a volunteer awareness day will be on Sept. 24 at the Student Center Plaza from 11 a.m. to 2:30 p.m. Representatives from local organizations will answer questions and provide information about volunteer possibilities within their agencies. Volunteerism offers you opportunities for job experience, vocational exploration, new friendships and community involvement.

The Indoor Recreation Committee of the UAB will have a membership meeting on Sept. 24 at 6 p.m. in Room 3115-G of the University Student Center. UAB activities include table tennis, billiards and the Slam-Dunk contest. Bring your ideas.

The UAB Art Committee will meet on Sept. 25 at 7:30 p.m. in the Board Room of the University Student Center. Everyone is welcome to attend.

GLOBALFEST 1990 will be on Sept. 30 from 6 to 9 p.m. in the University Student Center. Tickets

are now available at the Stewart Theatre Box Office and are \$4 for NCSU Students and \$6 for the general public. NCSU international students will prepare an international feast in the ballroom followed by a lively entertainment program in Stewart Theatre. Come enjoy a delightful, multicultural evening.

LECTURES/SEMINARS SESSIONS/WORKSHOPS

ACM/DPMA will present an orientation session on Tuesday at 7:30 p.m. in Room 218 of Withers Hall. All computer science students are invited and free pizza will be provided.

Career Planning and Placement is sponsoring HOW TO GET A JOB IN THE FEDERAL GOVERNMENT on Thursday from 4 to 5 p.m. in Room 124 of Dabney Hall. A representative from the Office of Personnel Management will discuss the excellent employment opportunities in the Federal Government in the 90s. Seniors are especially urged to attend.

Compiled by Jay Patel

Corrections and Clarifications

An article in Friday's paper about Public Safety's Fire Protection Division implied that the division was operating 24 hours a day full time prior to the budget cuts. The emergency response team operates 24 hours

a day full time and has not been affected by budget cuts. The Fire Protection Division has had some cutbacks in hours since the recent cuts. They now operate from 9 a.m. to 5 p.m.

Technician is committed to fairness and accuracy. If you spot an error in our coverage, call our newsroom at 737-2411, extension 26.

Parking Permit Open Sale

NCSU Division of Transportation announces the availability of parking permits for sale in certain specified parking zones.

Permits are available in zones "CC," "CD," "D," "E," "G" and "H."

Faculty/Staff and commuting students may now purchase permits. Resident students will be eligible for permits, if available, effective Monday, Sept. 24.

Permits issued during this sale for the Coliseum Deck ("CC") and the Dan Allen Deck ("CD") are for restricted use. Parking for these permit holders is limited to the zone specified on the permit.

The Division of Transportation office is located in the Administrative Services Center of Sullivan Drive. Operating hours are from 7:30 a.m. to 5:00 p.m.

Want to know what's going on this weekend? Read Happenings in Wednesdays Technician. Coming soon.

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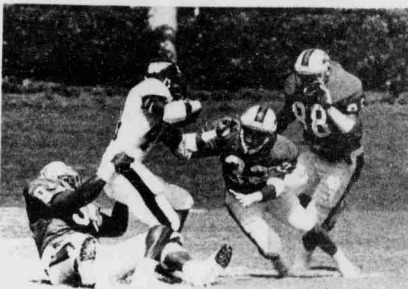
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Wolfpack survives date with determined Deacons



Rick Rankin/Staff

Pack defensive tackle Mike Jones raps up the Deacon's Anthony Williams. State's Sebastian Savage and Clayton Henry assist on the play.

By Todd Pfalzgraf
Staff Writer

They fumbled, stumbled, and fumbled, but thanks to a stiff defense and a Wake Forest gamble that didn't pay off, State squeaked by the Demon Deacons' 20-15 Saturday at Carter-Finley Stadium.

Head coach Dick Sheridan gave sophomore Terry Jordan his first collegiate start at quarterback, hoping that Jordan could muster the offense to victory. Charles Davenport was out with a shoulder injury suffered in Atlanta last week.

The Pack won despite three fumbles, two interceptions, four sacks, six penalties for 45 yards, and a safety.

Wake opened the game by marching 49 yards to the State 31-yard line where Wake head coach Bill Dooley gambled on fourth down with three yards to go. Wake quarterback Phil Barnhill dropped back to pass and was drilled by nose-guard Ricky Logan for a seven-yard loss, allowing State to gain possession.

It took only two offensive plays before the first

Wolfpack atrocity.

Fullback Greg Manior rolled off the left side of the line and was hit immediately, causing a fumble which the Deacons recovered.

This was only the beginning of what would appear to be a replay of last week's horrific offensive display.

But State's defense quickly stuffed Wake and forced them to punt. Punt returner Ledel George let the punt sail over his head, though, and the ball was downed at the four-yard line.

After a conservative three-play series, State was forced to punt. Preston Poag came in for his first punt of the season but didn't get a chance. As the snap sailed far over his head, Poag could only watch as Wake took the lead 2-0.

On Wake's next possession, the Wolfpack defense stifled them again and Dooley this time decided to punt instead of going for it on fourth down with one yard to go. The punt landed dead on the State three-yard line.

The Wolfpack offense managed to push the ball out to the 21-yard line, but before you could say "Wolfpack turnover" Jordan fumbled on an option play giving Wake the ball deep in State

territory.

The Deacs could not capitalize, however, as the Pack defense halted the drive and forced Wake to settle for a 40-yard field goal and a 5-0 lead.

Three turnovers followed on the next three alternating possessions. After moving four yards, Jordan threw his first interception of the day. Less than a minute later, Wake quarterback Phil Barnhill threw a pass which was deflected and then intercepted in the end zone.

After marching 63 yards in what seemed to be the first offensive threat of the day, Jordan fumbled the ball on a quarterback keeper at the Wake 17-yard line.

The Wolfpack recovered and on their next possession drove 58 yards in nine plays culminating in a one-yard touchdown run by Aubrey Shaw.

Junior place-kicker Damon Hartman added a 37-yard field goal before the end of the half.

State's woes continued on the first play of the second half, when Jordan's first pass was inter-

See FOOTBALL, Page 8

Booters breeze by Devils

By Todd Pfalzgraf
Staff Writer

The Wolfpack's frontline speed was too much for its opponent as the 12th-ranked men's soccer team dispatched the Duke Blue Devils 3-1 Sunday at Method Road Stadium.

The ninth-ranked Blue Devils were unable to keep up with State forwards Tom Tanner, Alex Sanchez, Roy Lassiter and Henry Gutierrez who blew by the defense all day.

Sanchez started the attack early with a goal in the fourth minute of play, but the score was negated by an off-sides violation. Gutierrez received an excellent pass from Lassiter at the 28th minute and blasted a shot past the keeper. A Duke defender deflected the shot wide of the goal. The Devil's defense was soon overcome by the quicker Pack frontline.

At the 27:24 mark, Lassiter broke away and passed to Sanchez. Sanchez kicked the goal and blasted the shot in for a 1-0 lead.

The Wolfpack offense continued to attack the slow-responding Blue Devils but were unable to score again before the half.

Eight minutes into the second half, a Duke corner kick was placed perfectly in front of the Pack goal. But, senior defender Curt Johnson charged in and cleared the ball from a possible Blue Devils goal.

State's defense stiffened and would not allow the Devils to control the ball in the Pack's end of the field.

Gutierrez and Dario Brosse led the offensive attack which resulted in three near-miss shots on goal. Duke keeper Jan Deweer was confused all day.

Finally at the 73:60 mark, Brosse cleared the ball into the Duke penalty box. Deweer came up to defend the ball, but did not see Sanchez charging in from the side. Sanchez stole the ball inches in front of the goal and drifted the shot in the net for a 2-0 lead.

Duke quickly began to rally. The Devils scored at the 77:20 mark of the game, but the point was nullified by an off-sides penalty and the Pack still led 2-0.

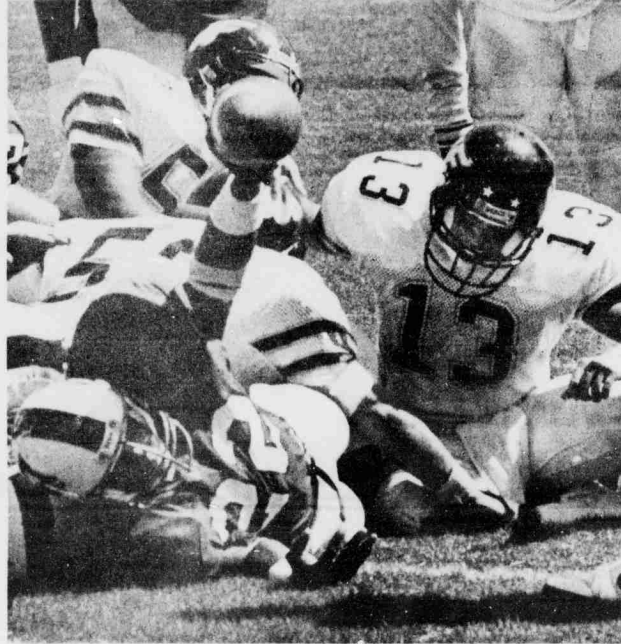
Lassiter took the ball on a break-away run at the 84:01 mark and fired a pass off to Tanner. Tanner pipped the ball through the posts for a commanding 3-0 lead.

Duke answered with its first score of the day just nine seconds later. Duke sophomore Chris Yankee blasted a shot off the side of the post for the Devils' only score of the day. Pack goalkeeper David Allred had no chance to stop the deflected ball. The score was too little, too late as the Pack went on to win its important ACC opener 3-1.

"This was a typical N.C. State/Duke game," said Pack head coach George Tarantini. "Today Alex did a great job and we finished our chances. This was a big win for us."

Speed was the key to victory, said Sanchez. "That was a big reason why we won today," he said. "That's our strength. Today we found confidence in ourselves. This is our start to win the ACC championship."

State climbs to 5-1 for the season and first place in the ACC. The Pack faces Whitworth on Wednesday at 3:30 p.m. at Method Row 1 Stadium.



Rovi Laska/Staff

Like a needle in a haystack, State's Aubrey Shaw makes sure the referee adds a TD to the Wolfpack's win column in Saturday's game against Wake Forest. Shaw gained 29 yards rushing and caught one pass for 16 yards.

Jordan shaky, sporadic at QB

By Joe Johnson
Assistant Sports Editor

Saturday's game against Wake Forest started out in much the same manner that last weekend's matchup with Georgia Tech did. The Wolfpack offense coughed and wheezed through a first quarter that saw terrible field position, three turnovers and a safety go against them.

"We put too much pressure on our defense," said Pack head coach Dick Sheridan. "But luckily they came through. Every Wake Forest game we've played has been a struggle."

Offensively, the Pack did not get on track until the 5:17 mark in the second period when sophomore running back Aubrey Shaw capped a 58-yard drive with a 3-yard touchdown dive.

The balanced attack that the Pack presented on this second quarter drive was the difference that got State on the board. Terry Jordan, who got the starting call over the injured Charles Davenport, finally settled into his position after getting off to a slow start at the outset.

Jordan's slow start was not as detrimental as it could have been as the defense rose to the occasion to hold the Deacons to only a field goal in the first half.

Jordan was responsible for two of the State turnovers in the opening period, but his presence on the

field emerged in the second period when he led the Pack on two scoring drives to take a 10-5 lead into halftime.

In the second period, Jordan opened up with a 32-yard completion on second down to tight end Todd Harrison. That drive, however, ended with one of Jordan's turnovers when Wake's Scott Shelhamer popped the ball from Jordan negating a 14-yard scramble.

Later on another drive, Jordan connected on successive passes to Ricky Turner for 18 yards and to Bobby Jurgens for 24 yards. This drive ended in the Shaw touchdown.

In the first half, Jordan went eight for 13 in passing for 123 yards with one interception. Jordan's favorite target in the half was Harrison who collected four receptions good for 56 yards.

In the second half, Jordan opened with yet another turnover as his pass was picked off by Wake's George Coghill.

Jordan came back later in the quarter by tossing a bomb to William Turner for an apparent touchdown. The play was called back on an offensive holding call. Undaunted, Jordan dropped back on the very next play and connected this time with Reggie Lawrence for a 33-yard scoring reception down the middle.

Runners leave tracks on competition at Brevard

By David Honea
Staff Writer

The N.C. State men's and women's cross country teams both took easy season-opening victories at the Brevard College Invitational Saturday.

The Wolfpack women swept the top six places to earn a perfect score of 15 despite the absence of all-Americans Laurie Gomez and Katrina Price.

Nikki Cormack, Kim Dean and Francine Damas tied for first with a time of 19:59 on the 5,000 meter course. They were followed by Danielle Benoit (20:28), Diana Hill

(21:05) and Kim Trawitz (21:48). "This race was a good stepping stone toward our goals for the season," said State Coach Rollie Geiger. "It allowed us to see where everyone is at this point in their training."

"It wasn't a difficult meet from a competitive standpoint, so we could do some things differently. For one, we had our people run in a group for as long as possible."

"We also held three of our runners out because of minor injuries. This was an extremely difficult course, and it was also very muddy, so we thought it would be safer if they skipped this race."

On the men's side, State took six of the first nine places, underscoring Brevard 23 to 35. USC-Spartanburg was third with 85.

Bob Henes ran away with the individual title, finishing the five-mile course in 26:38.

Jason Eicholtz was next for the Wolfpack, finishing third in 27:43. Scott Dvorak (27:51) and Stephen Blair (28:05) were State's third and fourth finishers, placing fifth and sixth overall.

David Honea completed State's scoring five, taking eighth in 28:15. Todd Lopenam was right behind in ninth at 28:16.

Rounding out the Wolfpack lineup, Dieter Drake finished 11th, Nelson Salorzano was

14th and Joe Tuttle was 15th.

"The men achieved many of the same things the women did," Geiger said. "The difference being that they faced much tougher competition and thus had to race a little more."

"It was a good first race. Jason ran very well, and Stephen and David also ran well considering that neither has competed in quite a while."

"The gaps between runners were bigger than we would like, but that's something our training will take care of. Overall, it was an encouraging first race."

Both teams will race next at the William & Mary Invitational on Sept. 29.

Spikers earn first win of the season, beat Quakers at home

By Bill Overton
Staff Writer

After five matches of frustration, the Wolfpack women's volleyball team earned a well-deserved win Saturday night, polishing off Pennsylvania 13-15, 17-15, 15-3 and 15-6 at Carmichael Gymnasium.

"It was frustrating for a few games," said State head coach Judy Martino. "They really started fighting in the second game."

The Pack went ahead early in the first game 11-7, but was unable to hold the lead. Penn's Megan Gallagher put the game away with an ace, and Penn looked to be sending State their sixth straight loss of the young season.

The Wolfpack fell behind 10-2 in the second game, before Martino used her second timeout. It proved effective as the Pack began chipping away at the lead. Setter/hitter Kim Scroggins, back in only her second match of the year after an injury, paced State with all-around good play, while outside hitters Tressa Paul and Lisa Kasper provided the power. State fought off several game points at 14-12, siding out the Quakers three times before tying them at 14-14.

"One real spark was Tressa," said Martino. "She was going for everything."

The Pack took the crucial second game, and with it the momentum. They rode the strong serving of Alice

Commers in the third, scoring the first ten points before Carla Rotchford was able to score a point for the Quakers. They dominated 15-3 heading into the fourth.

The fourth game featured one Pennsylvania mistake after another. Coach Margaret Feeney appeared upset with her club as they stumbled to many service mistakes. The Pack jolted the Quakers 15-6 to bring their record to 1-5 on the young season.

Earlier on Friday, State lost matches to Ohio and Cincinnati respectively. However, the matches were a contrast in dramatic fashion according to Martino. "Against Ohio we just didn't play well. We were not at all mentally prepared. But against Cincinnati we were just starting to get momentum in that third game. It was a real pick-me-up. I felt very pleased."

The third game was a marathon and resulted in a 20-18 Cincinnati victory. It was in this same game that Scroggins received her first playing time and impressed Martino.

State now has almost two weeks to prepare for their longest road stand of the year, which begins at Illinois State next Friday in Normal, Ill.

Martino said she will use the practice time wisely before heading to the Midwest. "We're struggling to close the block. When we do, we will get better," she said. "They have a lot of skill and a lot of power. This win will build some confidence."



Scipio Joy/Staff

Tressa Paul and Susan Dew block a spike in State's victory over Penn.

Bubblin' clean and cool in Student Center fountain

Beating the Heat On 79 cents A Day

There is an endangered species loose on the N.C. State campus. No, I'm not talking about bald eagles, baby seals or even squirrels who like to hang around power stations. The group I'm speaking of is the minority of students who actually enjoy the weather we've been having.

At the moment I'm writing this, it is approximately 538 degrees outside (with a wind chill factor of just 532 degrees), but these people aren't scrambling for Gatorade or air conditioning, they really don't care!

The reason that these people are endangered is that I'm on campus — I've killed five of them myself. You can count them yourself if you like. If I feel like a Whopper being flame-broiled, then darn if anyone else is going to be comfortable and gloat about it.

At first I thought I was exaggerating my heat intolerance — perhaps psychological, perhaps overreaction, perhaps due to my cardinal sin of being a Yankee. When I saw two students walking across the Brickyard burst into flames last week, however, it became clear to me that drastic action is needed.

So, in the interest of public welfare, here are a few suggestions on

Jeff Coleburn Innocent Bystander

how to keep cool while those around you feel like the Wicked Witch of the West. "I'm meltingggggg....."

1. This one is the most obvious. If you're single, find someone with air conditioning and start dating them. I don't mean nervously asking about dinner and a movie — we're talking a full-court press here, because the idea is to visit (read as: mooch off of his/her good nature) as often as possible.

2. Stop by after class. Before class. During class. Offer to cook dinner. Bring dinner. Bring a stove. Bring a caterer. Bring pajamas. Pitch a tent. Forward your mail. Get the idea?

3. If you're already serious with someone who doesn't have air conditioning, that's your tough luck for not having any forethought. Either dump him or her and find someone new with an apartment or lay down an ultimatum: get central air or you're out of there.

4. If you're living in a non-air-conditioned dorm (which covers most of them), clear out your refrigerator and leave it open for a week or so. Not only will this lower your room temperature by 20 degrees,

but it will also leave you reliant on Dining Hall food, which is a chilling thought in itself.

This may sound like a drastic step, but just remember that you're not paying the electric bill. Besides, clearing your fridge out can be fun — do you really need a better excuse to drain those wine coolers you've been successfully hiding from your RA?

5. Despite my usual tirades,

University Dining does have its good points — such as the refrigerated section in Tunnel Inn. The cool air it holds can be an instant pick-me-up. One of my favorite tactics is to open the glass doors and spend, let's say, two or three hours deciding exactly which bottle of Pepsi to buy. Decisions, decisions....

If you really want to try the extreme in this tactic, find the nearest convenient supermarket and roll

out a sleeping bag in the frozen foods section. If the store manager gives you a hard time, try to work out a rent arrangement.

6. I had once sworn a solemn oath never to enter a study lounge again — too many memories of curling up all night with physics textbooks, I suppose. However, a chance visit reminded me that many of them are air-conditioned! So much for solemn oaths — my mail is now being forwarded to Caldwell Hall.

Speaking of which, ever notice that the Caldwell complex is probably the best place to schedule fall classes? The entire building is air conditioned to the point that you could store the groceries you removed from your fridge there without any spoiling. It's a long walk, but so is the Harrelson Death Spiral....

7. A quick dip in the fountain outside the Student Center can be refreshing. Not only that, but a lot

of people get dunked there on their birthdays. Look around the floating muck and you might just find a few wallets or watches that were lost in a struggle.

8. The fountain may not be the cleanest swimming hole around, but that's easily solved. Simply take a large bucket of Palmolive dish-washing liquid and throw it into the top section while it's flowing. This instant bubble bath will not only clean the fountain but also most of the courtyard — the bubbles might even reach the Game Room stairs.

9. The proverbial cold shower. For those who are overheated and lonely, this is often the only way to go — a common occurrence in certain all-male dorms. From what some of my friends say, it's not that hard to get used to cold showers. One in particular uses water so icy that

See MELTDOWN, Page 7



Technician File Photo

Beating the heat is simple. Be creative and grab a bathing suit and a hose.

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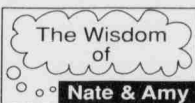
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Romantic gifts for a one-year anniversary and haircut advice

Dear Nate & Amy,
What can I get my awesome, sweet and romantic boyfriend for our one-year anniversary? Lost, but in love



Dear Lost,
[A] Now, this is a big problem, but one that I can solve.

[N] Yeah, right. You don't have a romantic bone in your whole body and I know this personally.

[A] Excuse me, but I'm a very romantic person, at least my many boyfriends tell me so. And when was that last time you sent roses?

[N] Roses? What are roses? Are those the little red things that cost me more money than I make?

[A] Yes, those are the things, you romantic fool, which, I might add, women generally love.

[N] Of course I know what roses are and I've sent many in my career as a love god.

[A] I ain't gonna touch that.

Anyway, Lost, I still know what I'm talking about. For your first anniversary, you must do something special. This is that special time in every relationship when you can stop celebrating every month you're together. Now you get to save all of those monthly anniversaries and celebrate them on that special day of the year.

[N] I hear you, Amy. Nothing disgusts me more than when couples tell me they are on their fourth anniversary and they are talking about the fourth month. I just want to gag. These people are usually the same kind of people who walk through the mall with pinky fingers interlocked.

[A] I think it's sweet. Too sweet. I really do. But celebrating once a month is a financial burden. And to get back to the point the one-year anniversary sets the stage for how every anniversary henceforth will be.

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[A] I think it's sweet. Too sweet. I really do. But celebrating once a month is a financial burden. And to get back to the point the one-year anniversary sets the stage for how every anniversary henceforth will be.

You can't buy diamond cufflinks now and expect to get away with plastic roses the next year. My advice is to start with something

Meltdown

Continued from Page 5

only an otter could stand it for long (This is probably because he's been shot down so many times that his underwear has bullet holes...)

This one really isn't the best way to cool off, but if suggestion #1 fails it may be worth a try.

And, if all else fails, blow off some steam and write me a letter. It gets lonely up here in the Technician office watching the CRTs blink at me. If you've got a gripe, comment or general statement on the futurity of life, drop me a line through Campus Mail (Box 8608 Student Center).

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Answers To Today's Crossword On The Classified Page

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Answers To Today's Cryptoquip

Pleasant butcher-turned-actor did poorly at auditions because he's too bummy.

nice, but inexpensive, so you can build on it for the next year.

[N] For instance, this year buy, or even better, make a nice card that expresses your feelings and all of the great things about your relationship. Put everything you have into that card because if you are sincere, that card will be better than the most expensive present your boyfriend could ever buy for you.

Cards are wonderful because they cost you nothing but time and energy, and if your boyfriend cares, he will keep that card to refer to later when he needs a good memory to perk him up. And the fact that you had the courage to write down your feelings, making them permanent, will only reassure your boyfriend just how much you love him.

[A] Good idea, Nate. I'm impressed. But more importantly, you can build on this card thing when the second anniversary comes around. You can make another card and also pitch in for a small gift. Keep the anniversary nice and simple because you also have the birthday and Valentine's Day to spend to your hearts content.

I would also recommend going to the same restaurant you went to when you first went out to eat together. Make that restaurant the same place you will go to for all of your anniversaries henceforth since memories are more valuable than any gold you can buy.

[N] Well said, Amy. I take it back about you being a romantic void. You do certainly have your moments when you try.

[A] Ah, gee, thanks Nate, I think.

Dear Nate & Amy,
Can you recommend a haircutter for me? I would like someone who can cut straight hair perfectly (no scraggly ends), and I expect him/her to cut hair as wonderfully as my New York stylist.
Styleless at State

Dear Styleless,
[N] It's difficult to recommend a stylist for you when I have no idea

just how good your hairdresser in New York was. For all I know, he/she was the reason you left New York in the first place.

[A] Don't get smart, Nate. If you don't know the answer, go ahead and be a man and say it.

[N] NO! I know the answer to this problem. I just don't know how to say it.

[A] He doesn't know, Styleless.

[N] I do too! I just have to follow my prime directive not to endorse products or people. But I can always kick my readers in the right direction.

[A] This one's all yours, Nate.

[N] Gee, thanks Amy.

When I started out at State, I discovered the wonderful world of barber colleges where students still learning the art of cutting hair would use my locks as practice for a very low price (under \$5). What I discovered was that I had to come with the exact style in mind. I made specific directions for the student to follow so that there was no room for the student to experiment and screw up. This way I always got what I wanted.

The problem was I got sick of going to these colleges having to be constantly aware of what was going on with my hair. I couldn't let my guard down at all because I didn't know what they would do. Another

problem was I never got the same stylist twice. Therefore no one was able to learn how my hair worked. This is very important in developing a good foundation of trust with your stylist.

[A] So how do you find someone you can trust? I'm sure Styleless is wondering about this by now since you've successfully dodged the question so far.

[N] I haven't dodged anything. I'm building a fine foundation for my answer.

Anyway, I got sick of never finding a stylist I could trust completely at the hair colleges so I asked my friends for recommendations. I specifically asked friends who were like me because I figured if a friend like that could get along with a certain stylist, then that stylist would get along with me. So I asked Amy.

[A] I told him where to go. I mean I told him where he could get his haircut. I recommended my hairstylist (I'll call him Bill) and another one who cut my hair when Bill was busy (I'll call her Esther). Now mind you, Bill absolutely adores cutting my hair because I go in and let him have his way.

[N] I think you'd better clarify that.

[A] I mean I let him have his way with my hair. He just goes on and on about how much he appreciates

the trust I put into his work.

[N] When we, Nate and Amy, went to the salon, Bill was busy with Amy's hair, so I decided to let Esther have a go at my head of nappy hair. This woman is the best stylist I've ever had. She's bright and funny and knowledgeable. I discovered the joy of not having to control the cut, but to let someone else take the reins.

[A] Get to the point, if you have one.

[N] The point is, you know who among your friends are more like you, so ask them where to go for haircuts. If, God forbid, you lack friends like this, check the Yellow Pages for places with the best prices for the best services.

Last but not least, if you get a

funny feeling in your gut when you get your hair cut by someone, listen to that feeling and never go back to that stylist. That means you feel uneasy and that's the last thing you should feel when you get your hair cut. If you go to a stylist and you feel relaxed, go back again and again. Maybe that stylist isn't like the one you had in New York, but if you feel relaxed enough to let your stylist take the reins, you and your stylist will make beautiful hair together.

[A] Well done, Nate. I didn't think it was possible to answer a question while skirting it at the same time.

[N] It helps when you're me!

[A] Oh, please!

Be Wise! Nate & Amy

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NEWS RELEASE

RAIN FOREST MYTHS AND MYSTERIES: ANIMATOR STACEY STEERS APPEARS ON THE SOUTHERN CIRCUIT

Animator Stacey Steers will present her award-winning animated film WATUNNA (free adm.) on Mon. Sept. 17, 1990, 8 pm in Erdahl-Cloyd Theatre, as part of the Southern Circuit media artists' tour. Based on tales of creation told by the Yekuana Indians of the Venezuelan rain forest, WATUNNA explores the genesis of evil, night, sexuality, fire and food in exquisite hand-painted images inspired by Yekuana, African and Pacific art. Steers' elegant, subtly colored, stylized drawings of gods, humans and beasts are accompanied by simple yet spellbinding narration by Stan Brakhage. The film's soundtrack includes a wide range of recordings from the villages of Parupa and Canaracuni and original music by Bruce Odland.

WATUNNA emerged out of Steers' extensive travels in remote regions of Latin America over a seven-year period. When she returned to the U.S., she was newly struck by the materialism underlying contemporary Western notions of utopia, and the loss of any real sense of nature's enchantment. In Yekuana mythology she found both a vivid poetic presentation of tribal ethics and a deep wonder and respect for the natural world. What is most remarkable about WATUNNA is that it neither romanticizes nor condenses to a totally foreign culture. Instead, it transmits the revelations of the Yekuana in all their hypnotic mystery.

As a complement to Steers' 20-minute animation, a new documentary on the Ashaninka Indians of the Peruvian rain forest will be shown. BEFORE WE KNEW NOTHING (62 minutes), directed by Diane Kitchen, is a profound reflection on the experience of living and filming among people who continue to resist acculturation into the standards of the modern world.

Stacey Steers studied animation at the renowned Zagreb Film Studio in Yugoslavia. She lives and works in Boulder, Colorado.

The Southern circuit is sponsored by the South Carolina Arts Commission and is supported by grants from the National Endowment for the Arts and the Southern Arts Federation and local co-sponsors.

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Football team downs Deacs

Continued from Page 3
 cepted and returned to the Wolfpack 40. Wake scored a touchdown eight plays later.

After each team exchanged punts, linebacker David Merritt intercepted a Barnhill pass and ran it back to the Wake 33-yard line. Three plays later, Jordan connected with sophomore William Turner on a 23-yard touchdown pass. The play was negated by a holding penalty and State was pushed back 10 yards.

Jordan then showed some poise on a third-and-14 situation by finding sophomore receiver Reggie Lawrence open over the middle for a 33-yard bomb, making the score 17-12.

Another Hartman field goal pushed the margin to 20-12 at the end of the third quarter. The stage was set for the Deacon's last gasp. With no timeouts remaining, Wake drove to State's 10-yard line and head coach Bill Dooley apparently wanted to go for the touchdown. Wake was crippled with a delay-of-

game penalty and Dooley decided to kick the field goal.

State recovered the onside kick and the victory was in the bag.

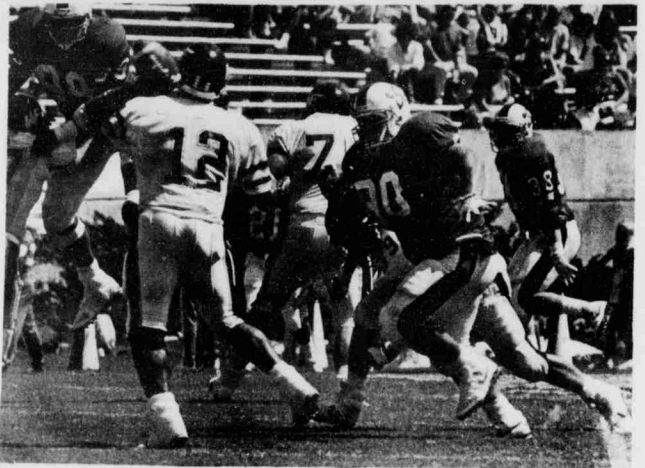
"We used to pride ourselves on being the team with the least penalties and turnovers, but we've done horribly in those areas so far," Sheridan said. "It's unusual to make the amount of mistakes we made today and still win."

Jordan completed 12 of 21 passes for 181 yards, including one touchdown and two interceptions. He was sacked four times.

"We'll take the win, but I don't think I played very well at all," Jordan said. "The defense deserves a lot of credit — they played very well."

"I'm very proud of Terry Jordan," said Sheridan. "It was a tough game for him in a lot of ways, but I know I'm proud of his performance."

The Wolfpack travels to College Park on Saturday for a noon kickoff against the Maryland Terrapins.



Rowi Lalko/Staff

The pressure is on as State's Ricky Logo puts a bead on Wake quarterback Phil Barnhill. State forced three Deacon turnovers in a game that saw the pigskin change hands on miscues eight times. Defensive tackle Mike Jones (background) goes airborne over the offensive line and limits Barnhill's field of vision. State pulled out the squeaker 20-15.

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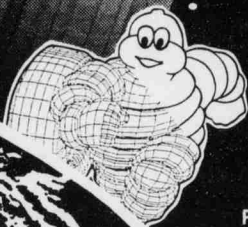
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