



'Little Shop of Horrors' to be performed Wednesday, October 12, 8 p.m. at The Township.

See Features, page 4

Coach Berson wins his 150th game

See Sports, page 7

Quote of the day
 "Most of the time, the money for these programs ends up floating around marble halls in Washington." — state Rep. Rick Quinn

See "Party representative," front page

The Gamecock

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Eighty Years of Collegiate Journalism

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USC BRIEFS

Engineering gets grant

The College of Engineering has received grants totalling \$375,000 to purchase equipment and other laboratory materials for the John E. Swearingen Engineering Center.

The Amoco Foundation has presented a \$250,000 challenge grant, which will be paid in \$50,000 installments over a five-year period and must be matched with private-sector donations.

USC already has received \$125,000 in matching cash and pledges from donors who wish to remain anonymous.

STATE BRIEFS

Police confiscate cocaine

GREENVILLE (AP) — Authorities confiscated 708 pounds of cocaine and arrested three Georgia men when they met an airplane as it landed at Anderson County Airport.

The wholesale value of the cocaine was estimated at \$7 million, with a possible street value of \$35 million. It is believed to be the second-largest cocaine seizure in state history.

An Anderson man was being sought in the case.

All four men were charged with conspiracy to possess with intent to distribute, conspiracy to smuggle, possession with intent to distribute and smuggling cocaine.

USA BRIEFS

Anti-abortionists protest

ATLANTA (AP) — Helmeted police officers stood guard at an abortion clinic as patients inside huddled and employees went about their business while "Siege of Atlanta" protesters outside shouted Bible verses.

The Feminist Women's Health Center is one of the city's seven clinics targeted by Operation Rescue, the New York-based anti-abortion group that has staged demonstrations here this week.

Fourteen demonstrators were arrested Wednesday, said City Solicitor Raines Carter.

Three of them were charged with simple assault when a patient they tried to bar from Feminist Women's Health Center stumbled and fell.

DOE report blasts SRP

The Savannah River Plant's isolated management undermines safety and deviates from "practices common to well-run nuclear plants," an internal Department of Energy report concludes.

The 50-page draft report is among the most critical to date of the way DOE and its prime contractor, Du Pont, manage the only U.S. facility that produces weapons-grade plutonium and tritium.

It recommends a host of changes to improve safety at the aging facility and to counteract "less than precise and out-of-date operating practices."

WORLD BRIEFS

Sandinistas approve law, new state of emergency

MANAGUA, Nicaragua (AP) — The Sandinista party has pushed through a law that grants President Daniel Ortega sweeping powers to make arrests and silence news media during a state of emergency.

Also Wednesday, the government banned Nicaraguans from receiving any type of official U.S. aid.

The new emergency law went into effect immediately after it was approved.

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BRIAN SAULS/The Gamecock

Accounting freshman Richard Elmore and management junior Michelle Hannon play "pilot and navigator." The Air Force Reserved Officers Training Corp hosted a field day Thursday.

Committee gives OK to hi-tech institutes

By **STEPHEN GUILFOYLE**
 Editor in chief

Two proposals — one to establish a university institute to study superconductivity and another to establish a parallel supercomputing center — were approved Thursday by the Faculty/Trustee Liaison Committee.

The institute of superconductivity would foster "basic and applied research" of the fledgling science of superconductivity, especially in the high temperature ranges.

Superconductivity is a new science that studies the movement of electrons through space with no resistance, decreasing or eliminating power losses. The ultimate goal of superconducting is to move electrons at the speed of light, USC President James Holderman said.

The research would spin off into many different areas and would include professors from the departments of chemistry, physics and geology, as well as the College of Engineering.

Professors who have already expressed an interest in the institute might study such areas as "quantum effects in superconductors. . . gravitational effects on superconductors. . . electrical power systems. . . theory of magnetic interactions. . . transport. . . magnetic properties. . . image enhancement techniques."

About 290 graduate students also would get chances to work at the institute, the proposal says.

The institute would use the Superconducting Quantum Interference



USC President James Holderman

new megacomputing center, the electron microscopy center and the Thomas Cooper Library as resources. There is no intention to ask for additional space to house the institute, but to use the participating colleges and departments.

The proposal includes a budget request for \$96,000 to start the institute, but adds that the university intends to seek support from federal agencies including the National Science Foundation, of which Holderman is a member, and the departments of Defense and Energy.

The committee also heard a proposal from Professor Colin Bennett, chairman of the mathematics department, about the proposed center for parallel supercomputing studies.

The center would support the new 1,024 node parallel "supercompu-

ter," which the university bought from Perceptics Inc., with research and development of hardware. The university will seek about \$10 million in funds to support the institute, but it may, by that time, have earned about \$18 million, creating a profit for the university that it "would have no trouble spending," one committee member said.

"The economic impact of the center is incredible — if it comes to pass," said Professor Rufus Fellers, chairman of the Faculty Senate. Fellers is an engineering professor.

The center could earn potential revenues in software development, faculty research and also through an industrial consortium.

The center will be housed in the Computer Services Division building on the second floor, which will be adequate space for about five years.

Specific work stations designed to do research with the supercomputer will be added soon, Bennett said, but it will also be hooked into the university system. Plans include having all system campuses gain access to the compute, so that research can be done across the state.

The money that the university has and will put into the computer will be recovered from charges from the outside work, Holderman said.

The committee passed the proposal unanimously.

Both proposals will be considered by the full Board of Trustees at its next meeting Oct. 20. If it is passed by the board, it will then go to the Commission on Higher Education for its approval.

New system to eliminate 'paper' papers

By **ERIC WARD**
 Staff writer

USC's new computer equipment and programs will allow paperless assignments by students and interactive computer editing by professors and fellow students.

LiveWriter, a word-processing program developed by the computer science and English departments, will be used initially next spring in the Social and Behavioral Sciences Computing Laboratory in Gambrell Hall. It is undergoing final testing.

The program is the brainchild of English professor Carolyn Matalene and computer science programmers Robert Oakman and Robert Cannon.

The trio wrote a grant to Apple Computer Inc. requesting support in the development of software for the Apple computer. Apple responded by giving 46 computers and money to support their efforts.

The program is designed to be used by a network consisting of an instructor and a varied number of students, depending on the number of terminals connected to the network.

Using the teacher's screen, the instructor accesses the list of students who are logged onto the program and enters their document through the use of a special mode.

Through the students' screen, the instructor communicates with the student, giving suggestions and providing comments. The result is interactive editing through the computer between teacher and student or between any two users, thereby eliminating the need for a personal meeting.

"The point about LiveWriter is that it's a wonderful teaching tool," Matalene said.

Once an instructor is finished communicating with a student, he or she can move on to work with another student. However, students must be logged onto the program for their screens to be accessible by another user, a condition allowing students privacy when desired.

"This is the ethics of it," Matalene said.

When students complete an assignment, it can be sent — using the Appleshare Network (not part of LiveWriter) — to the teacher's folder, in effect handing it in, where it is inaccessible to students until released by their instructor, perhaps with a grade.

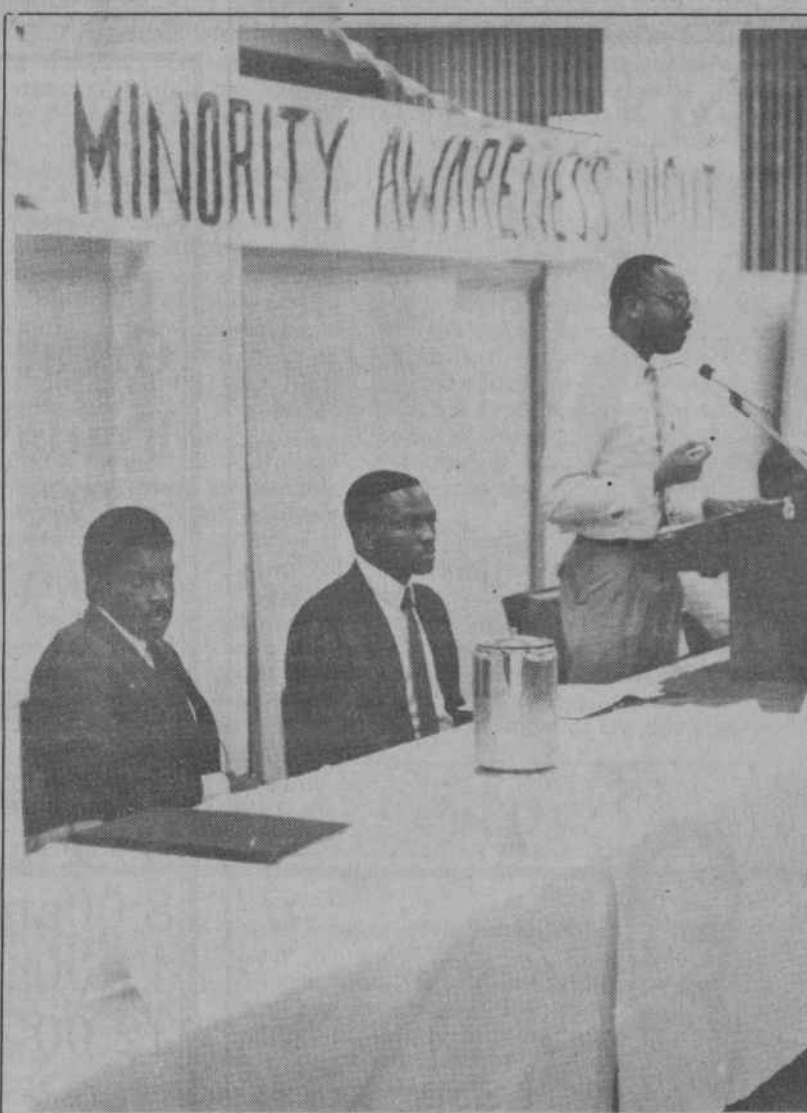
The result is paperless assignments.

Grading by reading a screen and not a paper is currently being done by USC's geography department, as well as in other colleges in the nation, Matalene said.

The specifics of the program were written by Matalene. "What I have always wanted as a writing teacher is to use computer technology to really get inside and edit student's papers," she said.

Oakman and Cannon then supervised the programming with assistance from graduate students David Pratt, David Adams and Ed Loomis.

The program is copyrighted through the university and has been nationally advertised by Apple Computer. Plans call for the program to be sold to a publisher for marketing, with the university probably receiving royalties from sales, Matalene said.



Associate Dean of Minority Affairs Ralph Johnson speaks at a minority awareness program Wednesday while Student Government President James Franklin and Farrand Logan listen.

Minority forum remembers past

By **JEFF WILSON**
 Staff writer

Minority students voiced their opinions, remembered the past and looked toward opportunities for the future at the Second Annual Minority Awareness Night Wednesday in the Bates West social room.

The evening also marked the celebration of the 25th anniversary of the first black student to enter a class at USC, Student Government President James Franklin said.

The theme for the program, sponsored by the Bates Government, was "Progress Through Participation." Ralph Johnson, associate dean of Minority Student Affairs, and Franklin were the guest speakers.

A panel of USC organizations was on hand to give information relative to opportunities available to minority students and answer audience questions.

Farrand Logan, a finance junior and master of ceremonies, said the Minority Awareness Night is a major effort to involve minority students in the west campus area, particularly Bates House and Bates West, into the core of campus activity.

He said he felt that many minority students who move into the west campus area get lost in the shuffle because they are so far away from the heart of the campus. The program also gave students the opportunity to find out about available resources and opportunities, he said.

"In 25 years, minority students have come a long way, but we still have a long way to go. I think tonight we have traveled some of the distance," Logan said.

The Office of Minority Student Affairs evaluated the campus climate for minority students and found the ingredients needed to enhance quality of life at USC for

See **MINORITY** page 2

Party representatives push for candidates

By **DAC CARVER**
 Staff writer

Representatives of Michael Dukakis and George Bush presented the presidential candidate's views on the environment, social security, education and abortion at a forum Wednesday. The forum, sponsored by the Capstone dormitory government, was held in the campus room at Capstone.

Representing the Republicans were South Carolina party vice chairmen Oarn Smith and Rick Quinn. Smith is also the managing editor of *Southern Partisan* and Quinn is the recently elected state representative of District 71, which encompasses Irmo.

Sherry Beasley, a teacher at A. C. Flora High School, spoke on behalf of the Democrats.

Beasley, who spoke first on the topic of education, cited a 25 percent national dropout rate among high school students and said it was alarming that 25 million adult Americans cannot read.

She said Dukakis' plan to improve the

quality of American education includes asking Congress to establish a National Teaching Excellence Fund that would provide more college scholarships and loans to those students in need of financial aid. Dukakis would also like to create a National Teaching Corps to harness new teachers and put them in needed areas across the country.

In addition, the Massachusetts governor promotes plans to work with states to create centers for teaching, funding for teacher research and a policy of bringing retired teachers back into the classroom for special instruction.

"Teaching needs a boost," said Beasley, a teacher of 15 years. "The morale needs to be rekindled."

"When I was a kid, I used to play school all the time," she added. "Now my daughter and her friends never play school. That seems scary to me."

Other education policies that Dukakis favors are adult literacy programs funded jointly by government and business to

educate illiterate workers. In the way of higher education, Dukakis plans to work with states to encourage the use of prepaid financial planning.

Beasley maintains that most, if not all, funds for these added programs will come from a reallocation of taxes, not a tax hike.

Quinn, speaking on Bush's behalf, said 75 percent of the work force will need to be retrained in 25 years.

He cited Bush's vice presidential running mate Dan Quayle as a major contributor in this endeavor because of Quayle's authorship of the Job Training Partnership Act, which has already begun retraining a portion of the current work force.

But Quinn said increased government spending on education is not the best answer. Instead, more stringent requirements on student loans and reduction on the rate of loan defaults would help ensure that people who

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See **COMPUTER** page 2