

Technician

North Carolina State University's Student Newspaper Since 1920



Weather
Variably cloudy with rain likely.
Temperatures will be in the
upper 70s.

Volume LXVI, Number 6

Monday, September 10, 1984 Raleigh, North Carolina

Phone 737-2411/2412

UAB declines stance in music dispute

Kathy Kyle
Staff Writer

"I hope the students stay on standby, and if it turns out good, fine, but if it turns out bad, it's time to organize against the administration," said Jim Edwards, chairman of Union Activities Board's Entertainment Committee.

He made the statement concerning the decision of banning all rock concerts from Reynolds Coliseum at a meeting of the Entertainment Committee Thursday night.

Edwards emphasized that it is the responsibility of the Student Senate to handle administrative policies, so the Entertainment Committee will continue not to take a stand.

To protest the decision, Edwards said he is considering forming a separate organization which will work through the Senate or directly with the administration.

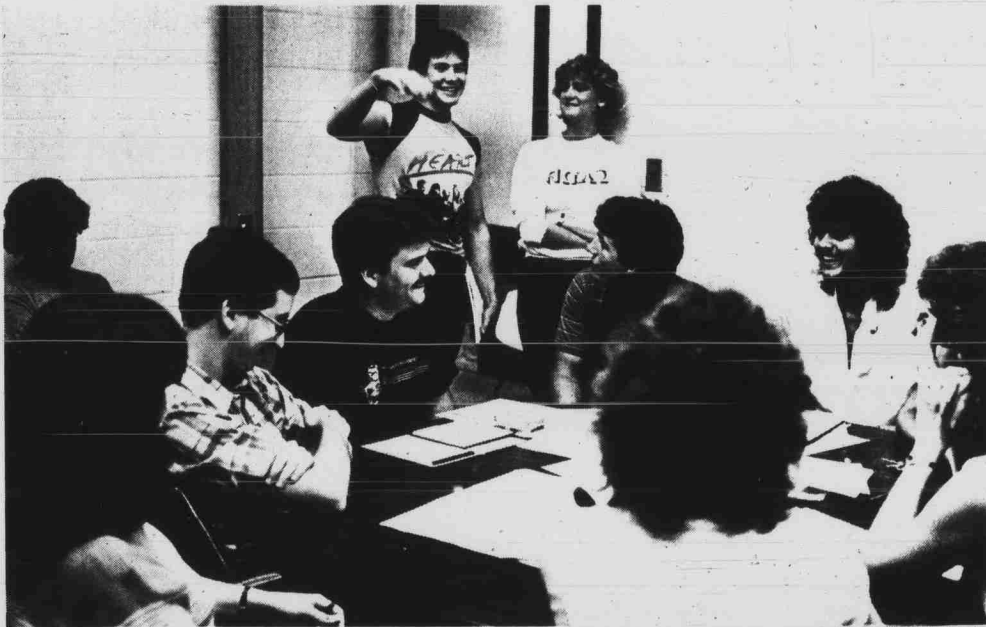
He said a committee is working on a proposal to present to the administration, and he is waiting for their recommendations before he takes any action.

In the meeting it was announced that Fubar the Robot will perform Tuesday on the Brickyard from 10 a.m. to 2 p.m. Fubar is a talking robot comedian.

The committee also proposed the return of two shows from last year: Mike Cross and the comic show "We Can Make You Laugh."

Last year approximately 650 people attended the comic show in Stewart Theater, and Mike Cross' performance sold out.

It was also announced that Rockworld, a one-hour variety of video shows presently shown from 11 a.m. to 2 p.m. on Monday in the Student Center, will also be shown on Thursdays during the same times.



During a Thursday night meeting, members of the UAB's Entertainment Committee declined to take a stance concerning the ban on rock concerts in Reynolds Coliseum.

Staff photo by Marshall Norton

Bush to visit Raleigh

Kathy Kyle
Staff Writer

Vice President George Bush will hold a press conference today at 10:15 a.m. at the Raleigh Marriott Hotel.

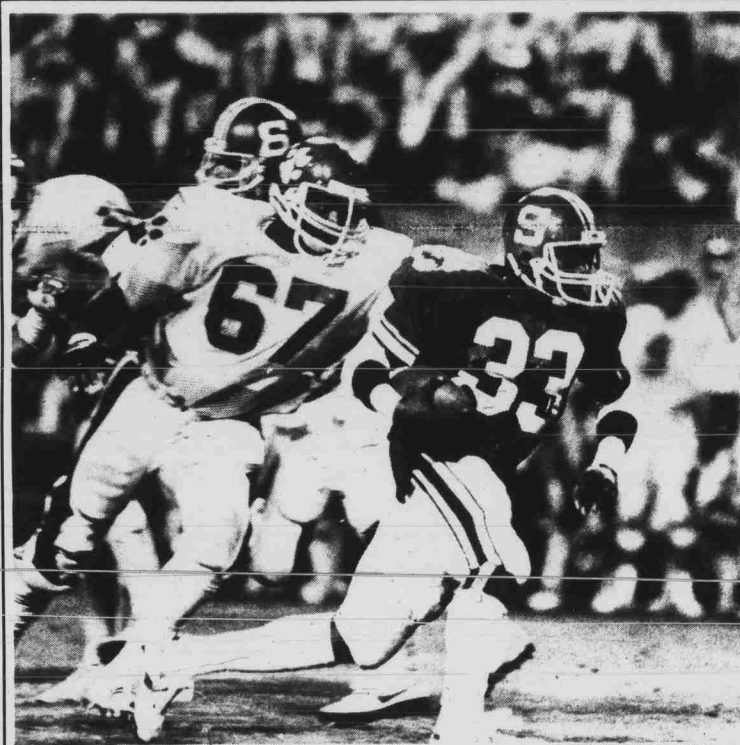
Two Democratic leaders supporting the reelection of Bush and President Ronald Reagan will be recognized at the conference, which is being sponsored by congressional candidate Bill Cobey.

Tom Strickland, state senator from Goldsboro, and Hector McGeachy, state senator from Fayetteville, will be acknowledged for their support of the Reagan/Bush campaign, said Walter Hunt, Wake County chairman of the Reagan/Bush reelection campaign.

The announcement, he said, is part of an effort to encourage Democrats to vote for Reagan and Bush in the upcoming November election.

After the press conference a \$500 per person brunch fund raiser will be held, which will be attended by invited Democrats and Republicans from the area.

The Vice President's conference begins a two-day campaign swing through North Carolina. After spending today in Raleigh, Bush plans to stop Tuesday in Greensboro to speak at a furniture manufacturing plant and in Winston Salem to hold another press conference.



Tricky Rickey

Senior Rickey Isom was one of several running backs the Pack used to rack up 331 yards on the ground and race past Ohio, 43-6, Saturday night in the season opener. Second-year coach Tom Reed was pleased overall with his team's showing. See story page 5.

Staff photo by Marshall Norton

Greek Forum begins with Tuesday lecture

J. Varis Williams
News Editor

"The Department of Student Development is creating an exciting chapter development program for the 1984-85 school year," according to Drew Smith, interim fraternity court manager.

The program, titled Greek Forum, will be open to all students with an interest in fraternity and sorority affairs, Smith said.

The Greek Forum will consist of bi-weekly seminars to better inform students, alumni and advisors on chapter operations, he said. Each program will feature a university official/administrator, a community/business leader or a representative from a national fraternity.

"This educational format is a continuation of our commitment to excellence in scholarship, leadership, citizenship and social awareness," Smith said. "It is intended to compliment our highly successful Greek Leadership Workshop."

The first session will be held Tuesday and will feature Lucas Fleming of Sigma Chi National Fraternity. Fleming will speak on "the value of the fraternity/sorority system in today's American college."

"This promises to be an entertaining and informative program," Smith said.

The initial Greek Forum will take place at 7 p.m. Tuesday in 216 Mann Hall.

State increases energy consumption 14% over last year

Ernest Seneca
Staff Writer

State increased its total energy costs by over \$1 million last year, according to Art Edwards of the Physical Plant.

Edwards said this is a 14 percent increase and represents a \$500,000 increase in electricity consumption alone.

"Carolina Power and Light establishes the university's annual energy bill by assessing the peak kilowatt readings each September," Edwards said.

"Last year's peak was 17,677 kilowatts, and we're trying to maintain a 17,500 kilowatt reading this fall... This could be a \$13,000 to \$50,000 savings for the university."

CP&L has a kilowatt recorder at the Bragaw substation from which the company establishes a one-time peak charge, Edwards said. This base charge, he said, is then affixed to each month's energy bill. The critical period is from Aug. 15 to Sept. 28 with peak hours from 10 a.m. to 12 noon and from 1 to 4 p.m., Edwards said.

"The first couple of weeks in September are usually excessively hot," Edwards said, "and students retaliate by cranking up the air conditioning, fans, beer coolers and radios in order to beat the heat. However, this creates an overload on the university's energy system and pushes the peak demand upward. Of course CP&L realizes this and charges us accordingly."

This means that students, university employees and faculty need to conserve electricity, Edwards said, for economic as well as environmental reasons.

"Electricity charges affect room rent, salary increases for faculty and tuition," he said. "People need to cut off unneeded outlets, turn off room lights and especially flip the switches off in unoccupied night school classrooms."

Lighting is as big a load as air conditioning, Edwards said, because light emits heat which causes increased use of air conditioning.

"Numerous problems have arisen in our conservation endeavors recently," he said. "Namely, additional research equipment has been added to the campus which increases the load. This equipment usually has temperature control settings that mandate more photoelectric cells from our energy system."

"We've run out of tricks to do... the mechanical and electrical things have been exhausted," Edwards said. "We've got to do more with public relations and mobilize university support."

"We realize that the university has to be conducive to learning and instruction," Edwards said, "students can't study in a 50-candle light setting."

"Simply stated, the energy department needs your help. Avoid using electricity during peak hours, and turn off those unneeded lights," Edwards concluded.

Spring controversy settled

Angela Platt
Staff Writer

Winston and Tompkins Halls have been declared free of cancer-causing elements by the Occupational Safety and Health Administration after a five-month investigation.

There were "no health hazards found," said Don Gray, deputy director of life safety services. According to Gray, the buildings are

safe for students, faculty and administration.

OSHA began investigating Winston and Tompkins Halls during February to determine whether elements in these buildings could be causing cancer.

The deaths during the past three years of three State English professors — Benjamin White, Guy Owen and Thomas Walters — prompted the investigation. All three

professors died of cancer.

Professor Raymond Camp, who underwent surgery to remove a tumor, and the three deceased professors had at one time occupied office space in 115 Winston.

The history behind Winston and Tompkins Halls also prompted concerns. Winston housed the chemistry department and the State experiment station's chemical department several years ago. Tompkins was

formerly the School of Textiles' building.

There were a number of "very detailed" test runs, Gray said, using "10 different analytical methods... Thirty people participated in the investigation. Tests on the paint, water and air were just three that were conducted. According to Gray, the investigation went very well and should reassure everyone as to the safety of the buildings."

OSHA declares Winston, Tompkins safe

Inside

The engineering student is often thrust into a decision-making process that goes beyond circuit structures. Such decisions require a good moral and professional attitude from the engineer. Page 3.

Ticket Pick-up

Student tickets for Saturday's football game with Furman can be obtained Tuesday from 6 a.m. until 4 p.m. at the Coliseum Box Office.

Tickets this year are being distributed on a first come, first serve basis for all games except the homecoming game.

Announcements

There is a Finance Committee workshop tonight at 7 p.m. in the Board Room. No appointment necessary.

Correction. In the Wednesday, Sept. 5 issue, Technician said the plus/minus grading would take effect this semester. It will take effect in Fall, 1985.

The Department of Student Development requests that political campaign signs and posters not be placed in campus residence areas. Your cooperation is appreciated.

Opinion

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. It is the mouthpiece through which the students themselves talk. College life without its journal is blank.

Technician, vol. 1, no. 1, Feb. 1, 1920

Get serious, Jesse

The most outrageous statement made during last night's Senatorial debate between Senator Jesse Helms and Governor Jim Hunt was Helms' statement that he has done no negative campaigning against Hunt.

This paper is endorsing neither candidate at this time. It is, however, condemning the type of campaign that Helms has led, a campaign style that the Senator has perfected over the years. While Hunt has made excessive use of the tactic, he has not gone to nearly the extent that Helms has.

Helms has yet to come out and tell voters why they should vote for him in this campaign. He has clung to President Reagan's coattails and, had some prominent citizens give testimony to what a wonderful person he is, but advertisements saying exactly what Jesse stands for and what he will do in his next term if elected, have been conspicuously absent.

Does Helms feel that the voters already know all they need to know about his voting record and his stance on the issues? How could they? He makes little effort to tell voters what he does, less even than our other senator, John East. Surely, he cannot be relying on the 'liberal' press he is so fond of criticizing to tell voters what he does in Washington.

Doesn't he want the people to know? Possibly not. He has such a good image as an 'outstanding citizen' and 'good' boy. Why should he risk that by facing the issues?

This campaign is just another in the continuing line of negative campaigns run by Helms and the Congressional Club, his political organization. In 1980, the Club misrepresented and distorted the truth to help East out then-incumbent Senator Robert Morgan.

In 1982, the Club led a similarly

negative campaign for Bill Cobey, who eventually lost to Ike Andrews, a very beatable incumbent at the time. In that campaign, it was difficult indeed to find campaign advertisements that were not negative, save the normal 'Cobey for Congress' signs.

Negative campaigns have been around for a long time, probably as long as elections themselves; this senate race is the most repulsive ever in North Carolina. Hopefully, it will be the most repulsive ever. That may be hoping against hope.

Certainly, it cannot be said that Helms is playing a solo in the mud-slinging derby that is the 1984 Senate campaign. Hunt has also gone too far. It is possible that only a smaller campaign treasury has prevented Hunt from slinging mud in Helms' league. It doesn't seem to be because of a lack of desire.

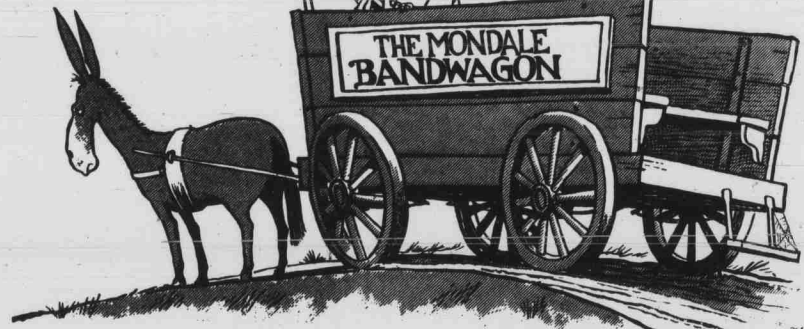
Still, much of Hunt's advertising has been in response to Helms' enormous media attack. We do wish, however, that the Hunt campaign had had the nerve to resist throwing sticks in return and had kept to a positive campaign. That may be a naive thing to hope for, but we would like to think that it might have prevented the continued escalation of the smutty attacks from both sides.

In the debate, Hunt challenged Helms to a less-negative campaign until the election. Helms refused, saying that he has not led a negative campaign to this point.

We hope that despite Helms' refusal to agree to end the negative campaigning, Hunt will go ahead with all plans to end their negative campaign and go full force with a campaign to tell the voters why they should vote for him and not against Helms.

Maybe Helms will follow suit.

COME ONE,
COME ALL!!
JUMP ON, FOLKS!!
HEY, EVERYBODY!!
YOO-HOO...HELLO...TESTING...



Fall fascism reaches peak

A new fashion is spreading across the nation's campuses. The brownshirt, the boot and swastika armband are all in style. Youth find fascism chic.

The right-wing is appealing to today's students.

Last week on the brickyard, we spoke to some very interesting people — Students for America. They believe in all the true morals like the right to forced prayer, the right to deny abortions and the right to impress American ideals on any other country.

"It's our responsibility as a free nation," a student explained.

How free is a country that is overrun with fascists? Whenever a country bans basic civil rights and liberties for "moral reasons," it forgets the basic ideals of democracy.

We remember a day when students were more liberal, even conscious. They weren't the mindless, conforming robots who roam this campus. Times have changed. Ninety percent of the people under 35 who have recently registered to vote support Ronald

AUSTIN,
DRAUGHON,
and
DEAN

Editorial Columnists

Reagan. Where are the youth needed in this country?

In a recent PS 201 class, students quoted Nixon. ("The anti-war movement is bad for the nation"), called for a strict crackdown on draft dodgers, ("a chain is only as strong as its weakest link"), and cited flaws in the First Amendment, ("free speech is okay, but it has to have its limits.")

The kids are headed right, far right. They fail to realize that another Reagan term will cause a shift in the Supreme Court.

If the Gipper returns for another stint in the White House, there's a definite possibility he'll get to replace five justices. Blackman, Powell, Burger, Brennan and Marshall are planning to step down. Reagan's conservative appointees will quickly goosetstep up onto the bench. Remember, the Constitution is what the Supreme Court says it is.

Past decisions can be overruled. Already, the exclusionary rule provided for by the Fourth Amendment has been trampled on. What's next on the agenda? Abortion perhaps?

That's what the young conservatives want. "It's against the Bible," a girl said. "What's the Bible to a non-Christian? Don't

they have the right to choose or not to choose religion? Certainly, they do, but Students for America would love to see the Bible integrated into every aspect of government. Onward Christian soldiers.

"If a country is threatening our security, we should go in, clean it up and get out. Just like Grenada," a student spat in our faces.

Is it not the sovereignty of a government, no matter what their ideology, to rule their country without unjustified interference? In most cases, outside assistance only intensifies a problem. The mining of Nicaraguan harbors by the CIA violates that country's borders. They had no right to be there.

Reagan and his young followers are paving the road to war. A border dispute suddenly escalates into a battle for democracy. It's the Great American Children's Crusade!

Don the brownshirts, students! It's the rage. Don't be left behind, or for that matter, left. Your loyalty may be questioned.

Students across this great nation now wear boots and practice the goosetstep. This nationalism spurs hate through ignorance. Lick the boot, commies.

We, the righteous, are going to pray, "USA, USA, USA!" Will the Kikes, the Unclean Ones and other non-believers please leave the room? We would like to exercise our right to pray — with our own kind. Buddhists need not apply.

The fall fashion will lead to the winter fascism — combat boots and camouflage pants while marching to Managua for Christmas. I'm sure the Nicaraguans will be glad to see us. God knows they should.

Forum

More action needed

I welcome this opportunity to send a message to my fellow brothers and sisters of color and to women in general. In efforts to be succinct, I shall get to the point. There was a time in history when blacks and women were issued an imperative to step back and shut up. The time has now arrived when blacks and women, conversely, are extended an invitation to step forward and speak up. In essence, we are no longer made to follow but are now challenged to lead. Here at NCSU, I personally do not feel that we as blacks and women have met that challenge, collectively speaking.

When I first arrived at NCSU as a transfer, I was excited about the prospect of being a part of State rather than just a student at State. I chose to serve on the NCSU Judicial Board, the body to which we as students have granted the power and authority to make both legal and even moral judgments pertaining to student conduct and campus related events. After hearing all the popular complaints about how unjust and biased the system is, I was certain to find numerous

members of the aforementioned group zealously serving on one of the most significant bodies—the NCSU Judicial Board. Needless to say, I was and still am highly dismayed. It appears that we blacks and women said "no" to the invitation to lead. The paradox is that we stepped forward and spoke up more during a time when we were told to step back and shut up.

As I bring this letter to an end, I ask all minorities and women to depend not on the fire of a Jesse Jackson speech or the hope of a Geraldine Ferraro victory alone to bring about positive change in our country and world. Each of us has a charge to keep and a debt to repay to our ancestors. Our contributions begin now — for today, our contributions begin now — for today is all we have. As for me, it may someday be said that I tried and failed. But it shall never be said, in truth, that I did not even try.

Shenandoah (Shen) Titus
NCSU Judicial Board

Rock solutions proposed

Mr. Casey's recent decision to ban further rock concerts at Reynolds Coliseum is in my opinion, and in the opinion of many students grossly unfair. To avoid useless retort and in the hopes of providing an equitable solution to the rock concert dilemma I offer the following six suggestions:

- 1) Make all first day ticket sales available to students only. (UNC and Duke already do this.)
- 2) Have all students wishing to attend rock concerts in Reynolds participate in a volunteer clean up program the day after the concerts. (25-100 students per concert)
- 3) Have assigned seating for all rock concerts.
- 4) Have groups of students volunteer to work as ushers for concerts and to assist Public Safety in crowd control.
- 5) Have students vote for 10 bands that they would most like to see play at Reynolds. Total the results and invite the 10 most popular bands from the list.
- 6) To assist in paying for possible and inflicted damages to University property place a 50 cent service charge on each ticket sold for a rock concert.

I hope that the above suggestions will be taken into consideration and you, Mr. Casey, will reverse your decision to ban rock concerts at Reynolds Coliseum.

Tom Bindewald
SR CSC

Forum policy

Technician welcomes forum letters. They are likely to be printed if they deal with significant issues, breaking news or public interest. Letters are typed or printed legibly and double spaced. Letters are limited to 300 words and are signed with the writer's address, phone number and, if the writer is a student, his classification and curriculum.

Technician reserves the right not to publish any letter which does not comply with the above rules or which is deemed inappropriate for printing by the Editor in Chief.

Letters must be written for style, brevity and ease. In no case will the writer be informed before that his/her letter has been written for printing.

Technician will withhold an author's name only if failure to do so would result in clear and present danger to the writer. Rare exceptions to this policy will be made at the discretion of the Editor in Chief.

All letters become the property of Technician and will not be returned to the author. Letters should be brought by Student Center Suite 3129 or mailed to Technician, Letters to the Editor, P.O. Box 8608 University Station Raleigh NC 27695-8608

Reagan scars Lincoln's image

WASHINGTON — This summer I read Gore Vidal's *Lincoln* — more of an essay, really, than a novel. Vidal sticks to the facts about Abraham Lincoln who, republican though he was, would have been booted out of the GOP convention. By Ronald Reagan's standards, Honest Abe was insufficiently religious.

In fact, Lincoln had an aversion to even mentioning the Almighty in his speeches and when on occasion he did so, members of his Cabinet — some of whom were deeply religious — were both stunned and grateful.

I am hardly a Lincoln scholar, so I cannot tell you if Lincoln was a religious skeptic or whether he held to the now quaint view that religion is a deeply personal matter, much too serious and consequential to be abused for political reasons: He recognized, after all, that both the South and the North thought they had God on their side and that the Bible itself was used by both abolitionists and slaveholders to justify their conflicting positions.

Contrast Lincoln with the current occupant of the White House, Ronald Reagan. Here is a man who punctuates many of his speeches

RICHARD COHEN

Editorial Columnist

with references to the deity, who has reduced Him to the level of a Cabinet officer, made Him a cheerleader for the GOP and considers Him a contributor to his re-election effort. In the person of Sen. Paul Laxalt the president has appealed to fundamentalist ministers to aid his campaign, even though he must know that if the ministers got their way, Laxalt's state of Nevada, best known for gambling and divorce, would revert to desert.

I don't know what Lincoln would have thought of all this. I guess he would have been appalled. But the historical example of Lincoln suggests that a political leader's religiosity, especially one worn on the sleeve, tells you absolutely nothing about him.

Lincoln, for instance, was clearly loath to invoke the deity and almost never went to church. Yet he was not only a great president but a great man.

On the other hand, Jimmy Carter, whose religious commitment was absolute, was hardly a great president and just an ordinary man. It hardly mattered to most people that Carter was a good Christian when at the same time the only thing zooming toward heaven was the prime rate. In such straits, they would have preferred Richard Nixon — a man whose god is pragmatism.

The point is that a person's religious commitment tells you almost nothing about that person. In fact, when it comes to safeguarding civil liberties and ensuring progressive and fair social policies, I would rather take my chances with your average atheist than, say, the Rev. Jerry Falwell. I grant you he is religious. But so, too, is the Ayatollah. It hardly matters to a poor, devoutly Christian American that the president, who has made life harder, is devoutly Christian — or says he is. Religion is not what counts — politics is.

What's true for Reagan is true for all politicians. It hardly matters to me that Walter Mondale seems now to attend church with a vengeance and that Geraldine Ferraro does the same. And New York Gov. Mario Cuomo is no more or no less right in his political position because he is a devout man. There are others who take contrary positions on, say, capital punishment and abortion who are equally devout. What matters — the only thing that matters — are the political positions they take. As they say in the army, they can pray on their own time.

But if you read the mind of the long-dead Lincoln, he recognized that religion can have a singular political impact. It can divide.

Lincoln was intent on unification, but that should be the goal of all presidents. When Reagan appeals to religion, he cites the one thing that divides us, that makes us not Americans, not even republicans or democrats, but believers, Christians from Jews, the born-once from the born-twice, and suggests that some sort of religious consensus can be reached at the polls — a sheer impossibility in a multi-ethnic, multi-religious nation.

The president charges ahead anyway, injecting religion where it does not belong, excluding when he should be including. He has made the party Lincoln into one that is inhospitable to the very essence of Lincoln himself, turning the deity into a party hack. That is the ultimate conceit. Ronald Reagan may or may not be a Christian, but when it comes to humility, this much is certain: He is no Lincoln.

TECHNICIAN

Serving North Carolina State University since 1920

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Science and Technology

S.P.A.C.E. to help students prepare for moral decisions

The major quality that newly graduated students in many fields is practical job experience. This does not present a major problem in a good number of areas. However, the engineering student is often thrust into a position which requires him to make decisions that go beyond circuit structures, effective wing area and tensile strength. Such decisions require a good moral and professional attitude from the engineer. Unfortu-

nately, such aspects of a job cannot be synthesized in a book or taught in a course. In an effort to prepare engineering students for such challenges, the NCSU Student Branch of the Institute of Electrical and Electronics Engineers (IEEE) is sponsoring the "Student Professional Awareness Conference for Engineers" (S.P.A.C.E.). Four speakers will address concerns such as job opportunities, interviews,

and controlling the direction of one's career. A panel discussion featuring all four speakers, along with School of Engineering Dean Larry Monteith, will be held at the end of the conference, to give students the opportunity to ask questions.

The need for engineers to be enlightened on such issues cannot be stressed enough. Consider the case of a young engineer, fresh out of college, who has just

SHISHIR SHONEK



Sci/Tech Editor

been hired by an automobile manufacturer. The said engineer is working on a car prototype, checking the details of the design for

potentially dangerous aspects. His boss tells him that he needs to be finished with the checks in a few days. The engineer tells him that he needs at least

one week to finish. The boss tells him that everything should be approved within the deadline or a certain employee will soon be taking "extended" sick leave. The engineer knows that the job should not be rushed, yet he doesn't want to cause a fuss so early in his career. What does he do?

Unfortunately, such predicaments are not completely unknown. Situations requiring moral and

professional judgements are commonplace. The aerospace engineer checking the wing supports on a commercial airliner, the chemical engineer working on a toxic waste neutralization and disposal project, and the civil engineer inspecting upper level supports in a shopping mall may be required to make agonizing decisions that will affect them, as well as many other people.

The conference will be held this Wednesday,

September 12, in the Student Center Ballroom, from 1:30 to 6:30 pm. There will be an admission charge of \$2.00, to offset the organizational costs. Also, a dinner will be given at the McKimmon Center at 7:00. Transportation will be provided. Dinner reservations should be obtained by tomorrow afternoon at 2:18 Daniels. All engineering students are encouraged to make an effort to attend.

State professor studying ways of alleviating shortage of milk processing bacteria

Do you think your schedule is tough? Do your teachers give you too much homework? Consider what the poor *lactic streptococcus* has put up with. Every day, in dairy processing plants around the world, the bacteria and their cousins, *lactobacilli*, get dumped into vats of pasteurized milk, thus the term *lactic*.

fermenting bacteria allows them to resist attacking phage viruses. His work with the bacteria was recognized in June by the American Dairy Science Association, which awarded Klaenhammer the 1984 Pfizer Award in Cheese and Cultured Products Research.

creating new strains of highly-resistant bacteria.

"The idea in this is to make strains that are more able to resist bacteriophages," he said. "When coupled with good starter handling practices, it could minimize losses due to bacteria failure."

A starter is a bacterial culture that does the work of fermentation. Just as yeast is added to bread dough, selected "good" bacteria are put into milk culturing to provide flavor and texture, offsetting spoilage.

To reduce the risk of infection, modern dairy plants rotate strains of bacteria with each milk

batch, and discard used bacteria.

Klaenhammer's approach to the 'phage' problem, part of NCSU's extensive Biotechnology Program, aims to apply new recombinant DNA, or gene-splicing, techniques.

He hopes to save the dairy industry a lot of money and headache, by developing procedures that might lead to improved bacteria for other fermentation industries. Such common products as sauerkraut, pickles, sausage and alcoholic beverages are made by fermentation. Related research on improving vegetable fermentation is being done in U.S. Department of

Agriculture laboratories at NCSU by Dr. Henry P. Fleming, Dr. Roger F. McFeeters and Dr. Mark A. Daeschel.

Klaenhammer is now working to devise a way to cut out the 'phage'-resistant gene from one bacterium and add it to another, which could then

reproduce a new strain of resistant bacteria. If two genes could be implanted in the same bacterium, he said, bacteria could be given double 'phage' resistance.

The key to the process lies, he said, in plasmids,

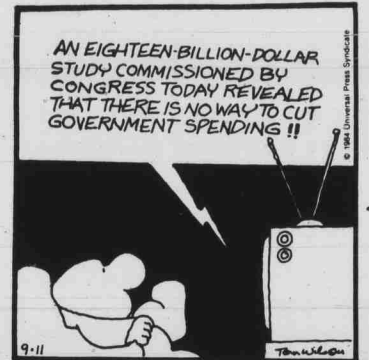
the tiny circular bits of genetic material in cells that are separate from chromosomes. Klaenhammer is in-

vestigating how plasmid material might be isolated and combined in the test tube for insertion into other bacteria.

He is moving from a study of *lactic streptococci* into work with *lactobacilli* under a grant from the National Dairy Council.

The \$28,000 grant will support work in characterizing the bacilli's genetic system and finding ways to engineer superior qualities.

ZIGGY



"The idea in this is to make strains that are more able to resist bacteriophages. When coupled with good starter handling practices, it could minimize losses due to bacteria failure."

The bacteria ferments the milk, turning it into cheese, yogurt and other cultured dairy products, providing just the right flavor while protecting the milk from the malevolent bacteriophage viruses.

The process is completely natural and has worked well for a thousand years, says Dr. Todd R. Klaenhammer, associate professor of food science at North Carolina State University. But the work load is increasing tremendously. Growing world demand for cultured milk products is putting the tiny bacteria under increasing strain. Supplies of the organisms are tight, and virus attacks are an increasing problem.

"This is probably one of the biggest problems facing the dairy industry today. There are not enough organisms in the world to fulfill the demand," said Klaenhammer. "About seven percent of all the milk that's cultured goes down the drain because of 'phage' problems."

Biotechnology could provide the answer. For six years, with support from university and industry funds, Klaenhammer has been studying how the genetic makeup of some strains of milk-

Klaenhammer has been able to identify bits of genetic material coded for 'phage' resistance and pass such a gene from one cell to another in a natural mating process. That is the first step, he said, toward

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ALPHA KAPPA PSI Business Fraternity announces fall rush. Accounting, Business and Econ. majors welcome. Sept. 11, speaker at 7:30 pm in G107 Link. No Freshmen Please.

American Meteorological Society meeting to be held on Tuesday Sept. 11 at 12 in 428 Withers. Everyone welcome. Refreshments will be served.

ATTENTION TO YOU SELECT FEW! All Afro-American Engineers and Computer Science majors are welcomed to the Society of Black Engineers first General Body meeting today, Sept. 10, 7:30 at 216 Man Hall. Make the elite difference in your college career - come join!

ATTENTION DRUMMERS: The NCSU Pipe and Drum Corps needs several more snare drummers to fill out the drum line. Interested persons contact

John Sprague at 214 Price Music Center or call 834-5757.

CPR classes are starting. Course -1, Sept. 10, 17, 24, Oct. 1 - Mondays. Course -2, Sept. 11, 18, 25, Oct. 2 - Tuesdays. Course -3, Sept. 13, 20, 27, Oct. 4 - Thursdays. All 7 to 10 pm, Fourth floor Student Health Service. To register, call 737-2563.

DanceVisions tryouts - DanceVisions information meeting Tues. Sept. 11, 1984, 5 pm in the Cultural Center. This will be the first meeting for students interested in joining this dance program. For information contact Tim Porter.

EIT REVIEW SESSION. Introduction and strategy by Dr. George Blossie. Tues. And Thurs. night at 7 pm in Mann Hall room 216.

FAMILY STYLE SUPPER, Baptist Student Center lacross from NCSU library, 5:30 pm today and each Monday. Call 834-1875 by noon for reservation. Brief program follows sponsored by Baptist Student Union.

Friday, Sept. 14, 7 am, 2nd floor Student Center, InterVarsity Christian Fellowship - west, Prayer Meeting

Greeks United 1st meeting is Sept. 11, 6 pm in the Green Room. Elections will be held.

HELLENIC STUDENT ASSOCIATION Organizational meeting, Thursday September 13 at 5:00 pm in the Student Senate Hall in the Student Center. All the Greek and Greek American students are welcome.

Hillel, the Jewish Student Association, will meet on Wednesday, September 12, 8:10 pm in Link Bldg Lounge to plan year's activities. All interested students invited. Refreshments.

IPM Club meeting Thur. Sept. 13, 7 pm McKinnon room Williams Hall. All interested Students and Faculty are welcome.

ISC (International Student Comm.) 1st meeting is on Wednesday, Sept. 12 at 5 in the Senate Hall. Representatives are encouraged to attend everyone is welcome!

Join Circle K just for the fun of it! Meetings held every Monday at 6:30 in the Student Center Green Room. Everyone's invited. Refreshments will be served.

Looking for a church? Come to the Baptist Student Center lacross from a NCSU library! Sundays 9:45 for a snack breakfast, church information and transportation to local churches.

Med Tech Club will have a cookout Mon. Sept. 10 at 5:30 pm at the breezeway joining Boston and Gardner Halls. All new members welcome.

Monday, Sept. 10, 3 pm, 226A Bragaw Dorm Inter-Varsity Christian Fellowship - west Prayer meeting

NCSU College Democrats meet. Tues. Sept. 11th at 7 pm in the Board rm; 4th floor of the Student Center. Betty Ann Knudsen will be speaking.

NCSU Hockey Practice on Thursday, Sept. 13 at 6 pm behind Carmichael Gym. All interested players are urged to attend.

NCSU SOARING CLUB meeting tonight at 7 pm in Truitt Auditorium, Broughton Hall. All interested students and faculty members are invited. Call 828-6224 for more information.

Outing Club meets Wed., 7 pm Rm 211 Carmichael Gym plans for a backpacking trip will be discussed. New members welcome.

Pre-Vet Club will meet Monday Sept. 10 at 6:30 pm in 2215 Williams Hall. There will be a guest speaker. Everyone is invited.

Problem solving and test preparation session for minority students taking CH 101, starting Monday, Sept. 10, 1984, from 7:10 pm in 209 Cox Hall. For more information contact Kathy Lee in 630 Dabney. All students Welcome!

Problem solving sessions, group tutorial sessions, and individual tutorial sessions are available in core mathematics, chemistry, English and physics courses. For information contact the R.J. Reynolds Tutoring Programs Coordinator, 117 Page Hall, 737-2341.

Recreation Committee - Anyone wishing to plan and implement outdoor adventure trips or indoor game tournaments, please attend organizational meeting Sept. 12, 5:30-6:30 in the Student Center Walnut Room. Call 737-2453 for more information.

Student Speakers for NCSU Anonymity will meet Tues. Sept. 11 at 5:30 in the Brown room, Student Center. New members welcome.

Student Chapter Meeting Institute of Industrial Engineers all welcome. Park Shops Rm. 107A, Sept. 12, 12:15 pm. Lunch served \$2.00 / person.

The Accounting Society will hold its first meeting Wed. Sept. 12, at 7:30 in the Student Center Walnut Room.

The Economics Society is having its first meeting Wednesday, Sept. 12 at 7 pm in G107 Link. Dr. J.S. Lapp head of economic and business undergraduate programs will be our speaker. All Economic, Business, and Accounting majors welcome.

The NATURE AMERICAN STUDENT ASSOCIATION (NASAS) will hold its next meeting on Tuesday Sept. 11 at 7 pm. The meeting will be held in the BLUE ROOM on the 4th floor of the Student Center. For more information Don Chavis at 737-5033. All American Indians are urged to attend.

The Office of Volunteer Services is now open MW 9:12 and 1:30 and TH 1:30-4:30. Information about internships, group projects and individual volunteer opportunities is available. 3112 Student Center. 737-3193.

The State committee on Central America announces a lecture and discussion forum with Dr. Peter Rosset - author of the NICARAGUAN READER which discusses the Sandinista Revolution, its strengths and weaknesses. Wednesday, Sept. 12 4:46 pm in the Blue Room of the Student Center Info 872-7973 events.

There will be a RUSSIAN CLUB meeting Monday, Sept. 10 at 7 pm in

the faculty lounge of the 1811 Bldg. Refreshments will be served! Everyone is welcome.

TUTORING AT NO CHARGE is available through the Program of Academic Support Services (PASS), Poe Hall, Room 528-A. Come 8 am - 5 pm, Monday - Friday to make a written request for a tutor in math, chemistry, English, physics, computer sciences, Spanish and French first and second level courses.

UAB DANCE Committee meeting Wed. 12 Sept., 6 pm - 7pm in Blue Room, NCSU Student Center. If you are interested in serving on the committee or want to know more about the DANCE COMMITTEE, please attend.

WEDNESDAY NIGHT BIBLE STUDY, 7 pm, Baptist Student Center lacross from NCSU library, led by Ted Purcell, chaplain. Study materials furnished on 1 Corinthians. Call 834-1875 for more information.

Wednesday, Sept. 12, 8:30 pm, Dining Hall, InterVarsity Christian Fellowship - west, Large group meeting - "God's Greatness and Man's Depravity"

WEIGHT CONTROL AND MAINTENANCE GROUP Starting Sept. 26, 3:45 - 5 pm 4th floor Student Health Service. Meets Six weeks plus (Wed.) to register call 737-2563.

White Water Rafting Trip - sponsored by UAB. Adventure on the French Broad River, Oct. 12-14. Register in 3114 Student Center or call 737-2453 for more information

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- "Focus on the Family" with Dr. James Dobson 1-1:30pm
- "The Word for Today" with Pastor Chuck Smith 1:30-2:00pm
- "Talk Back" with Bob Larson (live) 4-5:00pm
- "Insight for Living" with Charles Swindoll 6-6:30pm
- "Truths that Transform" with D. James Kennedy 6:30-7:00pm
- "In Touch" with Dr. Charles Stanley 7-7:30pm
- "The Bible Answerman" with Walter Martin 12-2:00am
- "Saturdays with Hal Lindsey" (live) Sat. 1:30-3:00pm
- "American Contemporary Christian Countdown" Sun. 12-1:00pm
- "Pat Boone Show" Sun. 1-2:00pm

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"ALOHA"

Sports

Greene, McIntosh lead backs

Pack skins Bobcats

Scott Keefer
Sports Editor

Head football coach Tom Reed may be concerned with his team's lack of depth at several positions, but the tailback slot is not among them. And State's stable of talented offensive backs made that perfectly clear in Saturday night's season-opener at Carter-Finley Stadium.

With the explosive tandem of Joe McIntosh, Vince Evans and Joe Greene slashing through a seive-like Ohio University defense, the Wolfpack delighted 40,800 fans by dominating the visiting Mid-American Conference Bobcats, 43-6.

Complementing its big-gainers from the backs with well-timed passes, the Wolfpack got things underway quickly, marching 75 and 46 yards for a pair of first-quarter scores.

McIntosh culminated the first drive by diving over from the two. Evans' one-yard plunge gave the Pack a 13-0 lead minutes later.

McIntosh, who totaled 76 first-quarter yards, finished with 107 yards on 15 carries. Greene, who broke

loose for a 40-yard touchdown run in the final period, grabbed game-high honors with 122 yards. Evans added 43 yards rushing and also sped 29 yards with a nifty blitz-beating pass from quarterback Tim Esposito for the Pack's fourth touchdown.

"We did the things we wanted to do," Reed said. "Without question, our first offense took control of the game. We have worked hard, and we were sharp and crisp when we had to be."

"It was a good chance to look at a lot of people. We played a lot of young kids for a lot of time. We're tickled to death. I'm not going to complain at all."

But then, who could? The Pack offense compiled 533 yards, with 202 through the air and a whopping 331 on the ground. Senior quarterback Tim Esposito, who completed 12 of 21 passes for 167 yards, felt the offense flirted with its potential, but can still perform better.

"We executed pretty well," Esposito said. "I think our offense was definitely right tonight. We're not quite where we want to

be, but we did show some positive movement."

Positive movement was also noticeable on defense, as the Pack's first-team defense limited the Bobcats to only four first downs and a paltry 90 total yards in the first half. Coach Brian Burke's Bobcats never crossed the State 45 in the opening period. Among the defensive standouts cited by Reed were linebackers Benny Pegram, Pat Teague and Frank Bush.

Although punter Craig Salmon received little opportunity to practice his punting, placekicker Mike Cofer looked impressive, booting field goals of 41, 43 and 42 yards, respectively.

"Mike is a very good game player," Reed said. "Put him on the field and he'll get it through the uprights."

Another individual who pleased Reed was freshman wide receiver Nasrallah Worthen. Worthen, a speedy 5-9, 170-pounder, exhibited his 4.4 quickness in the 40-yard dash by turning a short flare-out into a long-gainer.

"Before it's over, he's going to break a big play for us," Reed said. "He



Evans crosses the end zone on a one-yard run for the Pack's second touchdown. The 5-11, 207-pound senior enjoyed a productive game,

rushing for 43 yards and catching four passes for another 48 as the Pack piled up 533 total yards.

Staff photo by Marshall Norton

plays like a veteran out there."

The Wolfpack, which will host Southern Conference power Furman Saturday at Carter-Finley Stadium, is 1-0. Ohio, meanwhile, fell to 0-2 after dropping a 38-0 decision to West Virginia in its opener a week ago.

First downs - Ohio 13, State 28; Rushes-yards - Ohio 40-145, 60-331; Passing yards - Ohio 97, State 202; Return yards - Ohio 20, State 16; Passes - 10-20-2, State 16-26-0; Punts - Ohio 8-29, State 3-39; Fumbles-lost - Ohio 0-0, State 1-0; Penalties-yards - Ohio 5-28,

State 8-59; Time of possession - Ohio 27:54, State 32:06; A - 40-800. NCS - McIntosh 2 run (Cofer kick) NCS - Evans 1 run (kick failed) NCS - J. Greene 40 run (Hollodick kick) Individual Statistics RUSHING: Ohio - Hunter

NCS - FG Cofer 43 NCS - Evans 28 pass from Esposito (Cofer kick) NCS - FG Cofer 42 OHIO - Hunter 4 run (kick failed) NCS - J. Greene 40 run (Hollodick kick) RECEIVING: Ohio - Welsh 3-26, Smith 2-33; State - Evans 4-48, Brown 3-23.

16-47; State - J. Greene 14-122, McIntosh 15-107. PASSING: Ohio - Gillard 4-13-236, Swearingen 4-5-0-29; State - Esposito 12-21-0-167. Guide 4-5-35. RECEIVING: Ohio - Welsh 3-26, Smith 2-33; State - Evans 4-48, Brown 3-23.

Okpodu, Owoh shine as Pack boots Indians

Deron Johnson
Sports Writer

The men's soccer team pushed its record to a perfect 3-0 Saturday by thoroughly out-manning a defenseless Catawba squad 7-0 at Method Road Soccer Stadium.

State, ranked 17th nationally in the coaches' poll and third by Soccer America, jumped on the scoreboard early and never looked back. The Indians dropped to 0-2.

Coach Larry Gross was a little surprised about how easily his team disposed of Catawba.

"We had anticipated Catawba giving us a little more of a test than they did, but they're a young team," Gross said. "We'll take it. No one got hurt and we have our four players (Tab Ramos, Arnold Siegmund, Sadi Gjonbalaj, Kris Peat) coming in (Sunday) morning." The foursome has been in Trinidad for three weeks competing for the U.S. Junior National team.

Led by the Nigerian tandem of all-America senior striker Sam Okpodu and junior halfback Sam

Owoh, State wasted no time in getting on the score board. Owoh scored at the 5:44 mark on a double assist from Okpodu and sophomore halfback Jeff Guinn.

Less than four minutes later Guinn added another assist off a corner kick to senior fullback John Hummel, whose header was a carbon copy of Owoh's. Hummel then did some assisting of his own when he passed to sophomore fullback David In-trabartolo who scored from the right side of the net to make it 3-0 and set off State's massacre.

The Pack closed out its first-half scoring at the 30:42 mark when Okpodu, who usually does the scor-

ing, made an excellent fake to draw Catawba goal keeper Bobby Marcellus toward him. He delivered a pass to Owoh, who now had an open net and easy score awaiting him. The half ended with the Wolfpack ahead 4-0.

Gross was happy with his team's efforts in the first half, but was concerned about the Pack's play after intermission. "For the most part, we played good in the first half but got sloppy in the second," he said. "I guess being up by five goals contributed to that."

In the second half the Pack's offense stayed in high gear. Its defense, apparently improved since last year, played so well in

recording its second straight shutout that freshman goal keeper Jim Cekanor had only one legitimate scoring shot to defend against.

For the game the Indians had only seven shots on goal compared to State's 28.

Owoh opened up the second half scoring by taking the ball from midfield and maneuvering through the Catawba defense. He then nailed an unassisted goal, his third of

the game, from the top of the goal box to give State a 5-0 lead.

Okpodu scored two goals in the second half to push his career total to 158 points and bring him within 15 points of the ACC record.

The senior from Warri, Nigeria scored his first goal unassisted at 85:49 and tallied his second a minute later.

In looking to the future State cannot look past

Pigskin Results

Here are the winners of Technician's Pigskin Picks' games Saturday: State 43-6; Duke 31-24; Virginia Tech 21-20; Clemson 55-0; Syracuse 23-7; Temple 17-0; Michigan 22-14; Boston College 36-31; Louisiana State-Florida (Tie); Georgia 26-19; New Hampshire 21-13; Nebraska 42-7; Purdue 23-21; Oklahoma 19-7; Penn State 15-12; South Carolina 31-24; UCLA 18-15; Arizona 23-13; Brigham Young 47-13; Whittier 28-14.

ANNOUNCING AN EXCITING OPPORTUNITY FOR DP CONSULTANTS

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We are now in the process of selecting a limited number of DP professionals interested in consulting and/or seminar presentation to become members of The Computer Education Institute. If you are a data processing consultant or if you are currently employed in a computer related industry and interested in consulting, you are eligible for consideration.

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Breaking bad...



Staff photos by Marshal Norton



...on game day



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The Annual ALCOHOL AWARENESS FAIR

is scheduled for **TUESDAY, OCTOBER 9**
10:30-2:30, University Student Center Plaza.

\$100 awarded to NCSU organization with best booth
\$50 to second best, and \$25 to third. A \$50 prize for Best Alternative Beverage and \$25 to runner-up.

"RAISE YOUR SPIRITS"-JOIN THE FUN
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- Multiple Print Making
- How to Make Better Pictures
- Camera Operation & Care
- Early Photographic Processes
- Woodworking Beginners
- Antique Mirror Reproduction
- Basic Garment Construction

-2 day workshop -Enameling on and Fusing of Glass-Oct 6&7
-Week-end Raku Firing
-Day-trip to traditional Potteries-Sept. 29

JOIN THE YEARBOOK STAFF

All persons interested in joining the AGROMECK staff are cordially invited to an organizational meeting tonight at 7:30 in the Senate Hall on the Third Floor of the Student Center. We need people to work in business, layout, copy and photography. If you are unable to attend this very important meeting or wish additional information, please contact Marc Whitehurst or Roger Winstead at 737-2409.

BUY 85!