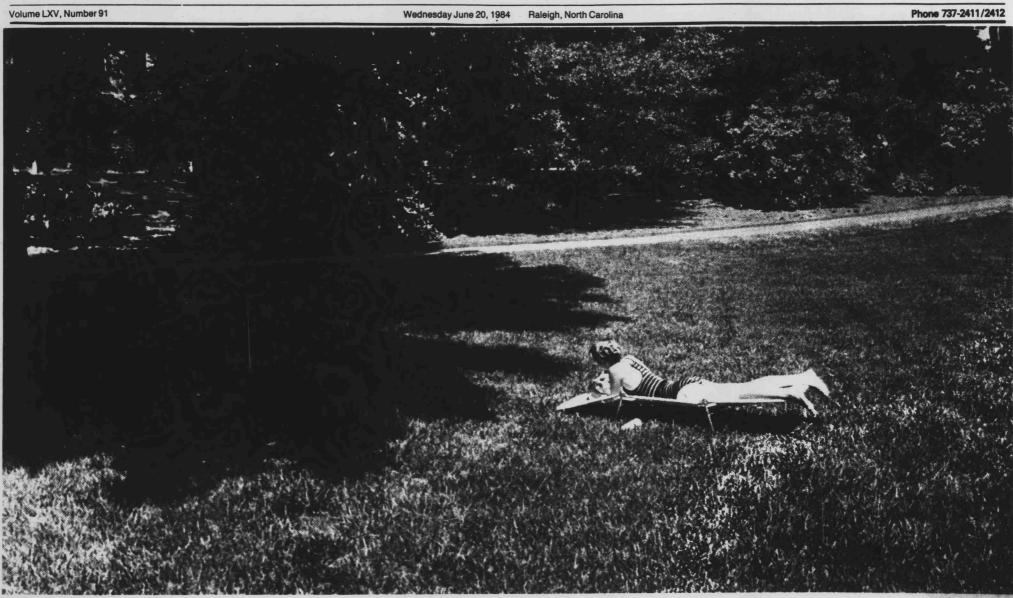
Technician

North Carolina State University's Student Newspaper Since 1920





From The Editor...

Two elements of life exist in a unique form in the university environment.

The first of these is the enthusiasm to learn — the drive to better oneself in every way possible.

No one can deny that college life isn't easy. Why then do we, as students, persist semester after semester in our efforts to educate ourselves. I believe it is because, in spite of the hardships encountered from day to day, there is an underlying exuberance in the knowledge that one is not only enduring these hardships but also prevailing against them. Untold numbers of graduates have remarked upon receiving their diplomas, "I never thought I would make it." The personal satisfaction in achievement is boundless.

The second unique element that is indigenous to college life is the special friendships which are formed.

These frienships are directly related to the first element that I mentioned. It is one's friends who often offer the needed support when times are their roughest. Whether it is through studying for a test together, going to a ballgame together, or just sitting and talking together, a friend's concern and company can make even the most trying experiences seem bearable.

The sad part of this whole unique circumstance is that, while the first element — the importance of learning — may be appreciated to its fullest while the student is pursuing his or her degree, the second element — the appreciation and recognition of the special college friendships — is often not seen until after the one graduates.

The old saying, "Absence makes the heart grow fonder," reminds us of the importance of acknowledging that which we all too often take for granted — our friends.

Bill Riderbour



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Sanity returns to Supreme Court, Senate

Last week will be a week that will have lasting effects on all Americans. The federal law makers and the Supreme Court have been very busy. At long last, the U. S. House of Representatives is working on a plan (which has been passed by the U. S. Senate and is supported by President Reagan) to curb illegal aliens' entry into our country. The Democratic majority in the House has held up debate on this issue for years so that millions more aliens would enter and become new straight Democratic ticket voters because of the correctly anticipated amnesty provision of the bill.

Another important development last week was the Supreme Court's descision to ease the exclussionary rule, which is critical for the admission of evidence into court. It seems that our learned lower courts had decided that the body of a 10 year old girl (who had been raped, murdered and thrown into a ditch) was inadmissible as evi-dence at the trial. It had been ruled that the killer's rights had been violated when he took the police to her body! The Supreme Court said that exceptions in the law have to be made to insure punishment of the guilty. The Supreme Court also ruled to ease Miranda, or the advising of rights, to insure public safety and save policemen's lives. A rapist was not convicted in court because a policeman, when he caught him, asked the rapist where his gun was (gasp!) before advising him of his rights. Finally, the Supreme Court ruled that workers with seniority could not be discriminated against to promote affirmative action. I have a personal understanding and joy for this ruling against affirmative action and hope its scope will be broad-ened. In 1976, I was denied freshman admission to N. C. State because of affirmative action's progeny: quotas. An interview on ABC's Nightline Monday night was outstanding on this topic. victimized firefighter said: "Tm 28 years old, not 200, why should I pay for something that happened that long ago? I haven't discrimi-nated against anybody." I haven't either

JAMES WALKER

-----Editorial Columnist

While we're on the subject of major victories for fairness and rational thought, the most significant of all of these victories been the slap in the face to the freeze-niks by the U. S. Senate. The Senate wants the U. S. to continue weapons tests in space. President Reagan's "Star Wars" technology has proven to be reality rather than myth with the suc-cessful test of the anti-ballistic missile in space. This missile makes a net that catches enemy missiles. The device destroys the enemy's approaching warhead without using a nuclear explosion. No wonder the Soviet Union is so eager to sign a treaty for a ban on the testing of weapons in space. It's too bad they don't show the same enthusiasm for the Geneva talks. Despite the freeze movement and the naivety of its followers, America is on the verge of winning the arms race. The arms race will not be won by sheer bulk alone. It will be won by technical superiority. In this respect, the U.S. has the edge, and the Soviets know it.

...the Supreme Court ruled that workers with seniority could not be discriminated against to promote affirmative action.

The fundamental flaw of the Soviet Union is how they deal with the subject of technological change. Unlike the United States, research institutes in Russia are not tied directly with the firms producing goods. In comparison, research done in the U. S., such as N. C. State's research labs, helps our state's industries because of the direct involvement of industry with research facilities. According to Dr. Franklin D. Hart, the chief research officer at State, many government projects, such as the space shuttle program, have been directly aided by research here at State. Also, says Hart, countless numbers of beneficiaries have been helped by research done by the University in the fields of electronics, agriculture, engineering and textiles. Hart says that new ideas are often sought and used, if sound. The rewards for new technology are many in the U.S.

In the USSR, there is no monetary incentive for technical change. The Soviet economy is centrally planned. If a new production method or advance in technology can double productive capacity, the following year the central planners simply double the quota you have to produce, while your receive the same pay as when you weren't producing twice as much.

In the Soviet economy, new technology is a risk. A negative inducement to apply new technology exists because the reward for failure is literally prison if the production quota assigned to you by the government is not reached. Who would be willing to take such risks for the generous reward of no pay raise if production is increased? No one! New technology has to be forced upon the firms by the central planners and the firms resist every step of the way. By the time new technology is implemented in the USSR, it is obsolete.

No firm in the U.S. could ever be accused of not being willing to develop and employ new technology to make more money. That simple idea, the profit motive, along with the humanitarian and technical goals of the institutions of learning and research, such as State, will allow the world to remain unsubjugated by the Soviet Union.

Op-Ed

Helms politically, morally decrepit country that fought and died administration had fixed the vote In response to James Wa

recent column entitled North Carolinians prefer Helms', Reagan in upcoming election, I must say that the departure of Thomas Paul DeWitt has not left the campus neoconservatives without their rhetoric. Walker has filled the gap quite nicely, as his latest pro-Jesse Helms column has proven.

Walker spends more than enough time boring the reader with Jim Hunt's obvious shortcomings. But being the neoconservative that he is, he would have one believe that Helms is the greatest gift since sliced bread.

To rationalize the race, let's look at some of Helms' political gaffes.

First Helms has launched a one-man war against the only foreign policy success of the Reagan administration in El Salvador. Namely, it's the election of Jose Napoleon Duarte.

Helm's, in his usual emotionfilled, logic-void, argument, ac-cusses Duarte's land reform policy of being a subversive Communist plot to bring down the rule of peace-loving, democratic-loving leaders like Roberto D'Aubuisson.

Helms even went as far as to state publicly that the Reagan

that gave Duarte the victory over conservative opponent his D'Aubuisson. What an absurd accusation!

Of course, Helms doesn't want you to know that D'Aubuisson is the man who leads the right wing death squads in El Salvador.

These death squads have murdered priests, politicians and peasants who have linked themselves with land reform. But land reform is the only

practical way for the peasants to work for a better living. El Salvador does not have the base for industrial development.

Only through private agricultural production can the peasants afford to feed their families and educate their children. But because of the historical inequity of land ownership, the peasants can't purchase enough land to make an adequate living for themselves.

Yet Helms is fighting an ideal war. You know, the one that savs cultivating private land to feed and educate your children is really communism.

I wonder why Helms doesn't say that the present land ownership in El Salvador is more like feudalism,



Editorial Columnist which is just as alien to democracy as communism?

Could it be because people like D'Aubuisson, who Helms says embraces democracy, own the vast majority of El Salvador's land and refuse to sell it to the government at market prices so that it can be given to the peasants?

Think about that the next time Helms says that he loves the common people of North Carolina. But Helms' political ignorance

doesn't stop here. No, not hardly. When the British took back their Falklands from the Argentinian dictators, Helms was so fearful that we might contribute to the downfall of a regime that hated communism that he was the only senator who refused to support the British in their war

No, Helms would rather support the Peronist who murder their own people than support our greatest friend and ally in the world, a beside us to rid the world of the Nazi fascists

But don't think for a second that Helms' gaffes are related exclusively to foreign policy issues. Helms launched another one-

man crusade to accuse the great Martin Luther King, Jr. of being a communist.

And what evidence did Helms use to base his claim? It seems he used the FBI reports prepared under J. Edgar Hoover's rein as director of the bureau.

Now it's widely known that at the time this report was being prepared, Hoover was not in total command of his faculty. Later, G. Gordon Liddy, a man who once worshipped Hoover while in the FBI, wrote an inter-office memo to then-President Richard Nixon. The memo said that the FBI was ineffective because Hoover was on the edge of insanity. Liddy said that Hoover could

not be removed because he built a career preparing "black lists" on nearly every public figure. If one were to try to remove him, the black list would be made public and great careers would be destroyed

Combine this need to black list

Crier

with an irrational belief that all things liberal were communistic, and you have a formula for a highly suspect report on King that accussed him of having communist ties.

Yet Helms would have you believe that this report is totally objective. And that notion is pure bull manure.

Helms embarrassed this state with his suspect crusade to tarnish the image of a great man, a man who followed the teaching of Mahatma Ghandi, not V. J. Lenin.

Because of Hunt's vacillation on important issues and Helms' eighth grade mentality on world affairs, this year's senate race is like voting between Lucifer and the Devil himself

But given the records of both men, I can stomach Jim Hunt a lot easier

And no. I'm not a bleeding heart liberal. I'm a conservative with a conscience. And that's what separates me from the Tom DeWitt, James Walker crowd that supports Helms.

I'll vote Hunt for senate and Ronald Reagan for President. And for the good of this state's image and Reagan's foreign policy, I urge all to do the same.

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Chancellor announces new department heads

State Chancellor Bruce Poulton has announced the appointment of two new department heads in the School of Humanities and Social Sciences.

They are Dr.John E. Bassett, English, and Dr. William J. Jordon, speech-communication.

The appointments, which are effective July 1, were an-nounced following approval by the NCSU board of Trustees, the UNC Board of governors and UNC President William Friday.

Bassett replaces Dr. Larry Champion who will resume full-time teaching duties. A native of Chevy Chase, Md., Bassett comes to State from Wayne State University in Detroit where he has served as associate chairman of the de partment.

He earned his bachelor's and master's degrees at Ohio Wesleyan University and his doctorate at the University of Rochester.

An American literature schol-ar, he has published three books on William Faulkner and numerous articles on Faulkner, Mark Twain and other American writers.

Bassett also has served as managing editor and associate editor of the professional journal, "Criticism."

Jordon will replace Dr. William Franklin who will re-. sume full-time teaching duties in

the Department of Speech-Communication.

A Houston native, Jordan has taught at Texas Tech Universi-ty, Lubbock, since 1973. He earned his bachelor's and master's degrees at the Univer-sity of Houston and his doctorate at Wayne State University.

The author of numerous journal articles, he also has served as a consultant for companies which include Holt, Rinehart, Winston Publishers; Texas Instruments, Speech Products Division; and William C. Brown, Publishers.

Jordon also has served in editorial capacities for profes-sional journals which include the "Texas Speech Communication Journal" and "Communication Quarterly."

Center displays art

an Craft Competi Note University Cr n''will be on di ks of art repre

ibit is ci d by the Southern Arts F

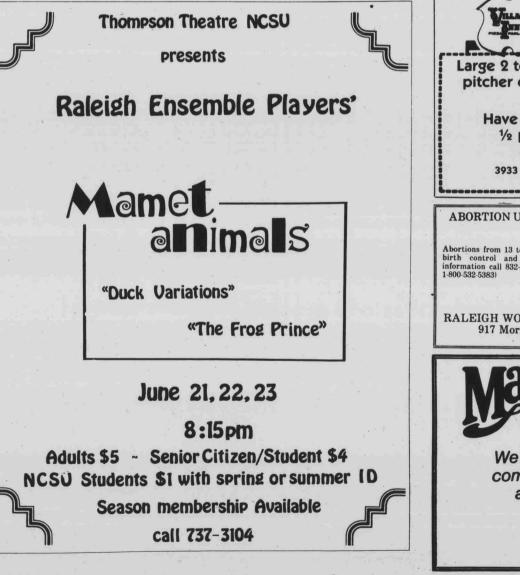
Student receives award

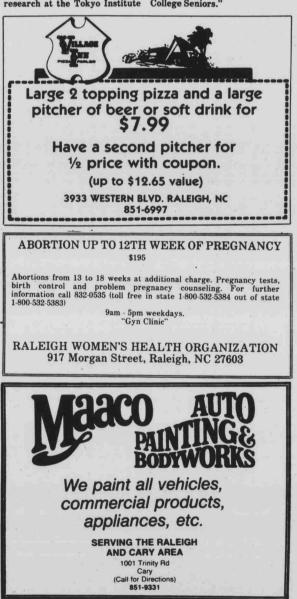
Joseph Doolan, a doctoral degree candidate in fiber and polymer science at State, has been selected to receive a Fulbright Grant to study polymer chemistry in Japan for a year.

of Technology on the diffusion of dyes into films. A native of Trenton, N.J., Doolan was graduated in 1978 from the Philadelphia College of

Doolan, who will leave for Tokyo in October, will perform research at the Tokyo Institute

Textiles and Science where he received the Sarah Tyler Wister Award for Academic Excellence in Sciences and was listed in "Who's Who Among American College Seniors.'





Economics & Business

MCNC opens door for growth

What's behind the green door?

Strolling down the sidewalk between Riddick and Daniels Halls, one can very easily pass by one of the most crucial sights by one of the most crucial sights of scientific research in the world and never notice it. At the ground level of Daniels is a single green door with a small paper sign taped to its glass. "MCNC...ENTER VIA CLEAN ROOM ENTRANCE RM 115..." If anyong should are to go to

RM 115..." If anyone should care to go to room 115 in Daniels, he or she will come to what looks like a large janitorial closet. The door labeled "Clean Room" will be bolted shut. Unless you know the combination of the security

code, you will never get in... MCNC stands for Microelec-tronics Center of North Carolina. The main facility for the center is located in the Research Triangle Park in a modern \$30 million building

which looks like a set for a Stanley Kubrick movie. In the basement of Daniels Hall is a 4,000 square-foot fabrications facility. With enormous fanfare, MCNC was established for mi-MCNC was established for mi-croelectronic research needed to keep the United States at the forefront of semi-conductor and computer technology. At the same time, the Center strongly reaffirms North Carolina's c o m in t m ent t o h ig h-technology, and maintains the image of the state as an attractive place for industries to relecate. The full significance of what MCNC means to the develop-ment of the nation's microelec-tronics industry and North

tronics industry and North Carolina's economy in general could never be measured in this article - suffice to say that the future of American industry depends upon the successful development of large scale integration, and that North

CHUCK HICKS

-Economics Editor Carolina is wisely getting in-volved in this key area of development which will create more jobs.

more jobs. Without getting into much detail as to what the Microelec-tronics Center does in process, it should be mentioned what the Center's specific purposes are and how the organization is structured. According to MQNC's official information packet, the com-pany is involved in three main areas of research and develop-

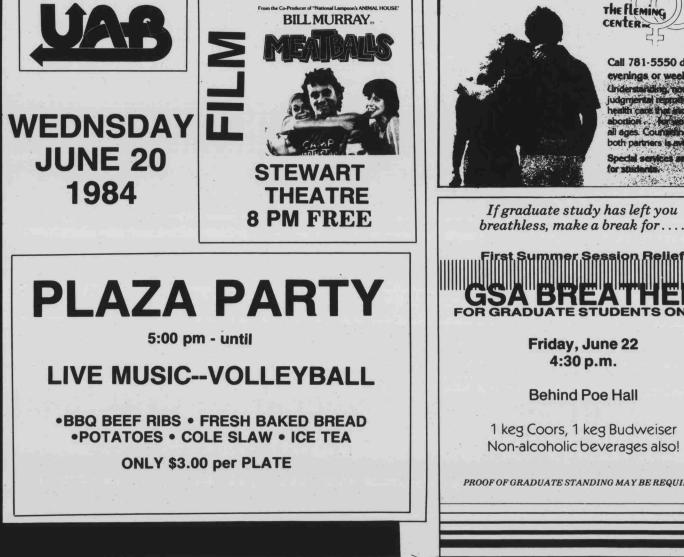
areas of research and develop ment: semi-conductor materials and fabrication processes, computer science and design, and integrated circuits design to support microelectronics appli-

cations. The Center operates an industrial affiliates program by which high-technology inwhich high-technology in-dustries may become "mem-bers" of the organization (MCNC tiself is a non-profit entity): Affiliate companies may send up to three staff members to MCNC to do research and to study new advances in micro-electronics. In addition, affiliate companies have a direct influ-ence on what programs MCNC implements. The economic im-pact of this cooperative agree-ment will be improvements and expansion for current affiliates in the area, and a probable expansion for current affiliates in the area, and a probable increase in the number of industries choosing to settle in North Carolina. With more expansion and industrial growth, there should be a steady level of employment opportunities for students re-ceiving degrees in highceiving degrees in hightechnology fields.

Opportunities exist for college

students in North Carolina to become involved with MCNC. The organization as a whole is actually a contingent made up of MCNC, the Research Triangle Institute, and five local un-iversities: NCSU, UNC-Chapel Hill, UNC-Charlotte, Duke University in Durham and North Carolina A&T in Greensboro. Instruction in microelectronics being made available to students at these schools. Al-ready, there are over 5,000 undergraduate and 900 graduate students involved in related field studies. According to MCNC, the five institutions listed above have invested over \$40 million in new computer science and engineering facilities.

A major step for North Carolina's development came with the cooperative sharing of resources and knowledge by State, Duke and Carolina in the see 'MCNC', pg. 9



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Plea for Central America: Norte displays dilemma of immigrants adopt to American culture. Here

Not since John Steinbeck's. Grapes of Wrath has a work of art so poignantly expressed the

plight of the immigrant worker. El Norte by Gregory Nara and Anna Thomas is the story of a brother (Enrique) and sister (Rosa) who see their father murdered and mother taken away by the Guatemalan army. They escape capture and decide to go north to the United States, where even the poorest people have electricity, a flush toilet, and other such luxuries. It seems impossible that they could make such an arduous journey beset by thieves, im-migration officials, and inadequate supplies. However, their complete naivete and young innocence bring them friends as well as leave them at the mercy of their enemies. Their love for one another and the strength of their family ties pull them through many perils, only to be beset by more dangers.

The movie brings out much concerning Central American culture, covering the native importance of family and re-

ligion. Their governments are run by the few people that are rich, and often those people come from outside. The movie shows the process in which peasants become guerilla fighters and how the journey to America becomes more than a dream. It becomes a last hope for life or death.

The helplessness of the immigrant worker stems from his lack of awareness of American culture and language. The immigrant worker is cheap labor that is chained to obedience by the threat of a phone call to the Immigration Department. For some that is a death sentence. For others that means yet another journey back to the United States

Enrique (David Villalpando) and Rosa (Zaide Silvia Gutierrez) arrive in Los Angeles and manage to find work. Their dream of America is shattered by the hovel in which they must live and the hard work they must perform just to survive Yet they cling to the shards of their dream, and slowly they

their desired end; to play from

This determination is evident throughout Leave My Heart,

with its consistent quality track

after track. A common vein of '50s and country influences

combined with the spirit of the

'80s pervades the music, yet each song has unique qualities that will have music-labelers

"Terminal Cafe", an immediate favorite, ties in excellent drumming and off-beat guitar

chords with introspective lyrics.

the heart; in their way.

running in circles.

the movie brings out the cultural difference and enacts an even greater threat to Enrique and Rosa. Enrique is offered a nice job, but to take it means to leave Rosa behind.

In Central America, family is everything, but in the United States, a good opportunity only comes once. The conflict seems irresolvable and perhaps it is. The ending is truly ironic and is suited very well to this tragic story.

Overall, Leave My Heart is an outstanding album; capturing true experiences and feelings so

often absent in today's music.

-Jon Hamilton

-Susan Coble

Echo & The Bunnymen Ocean Rain Sire Records ****

With the release of Ocean Rain, Echo and the Bunnymen complete a subtle musical circle from their self dubbed 'Apocalypse Now' sound to a rich textural orchestration of thought upon melody. Gone is the piercing percussion laid upon well spaced guitar pat-terns that marked the group's

early musical image before Porcupine, the band's first noted U.S. release. Not missing though are Ian McCulloch's haunting vocals, which become even intrancing in the light of the softer sound.

There is a unity in Ocean Rain between lyrics and melody that the band couldn't connect on *Porcupine*. McCulloch sings with a passion that can be spellbind-ing at times. "Seven Seas", the most notable ballad on the album, is McCulloch at his best. McCulloch searches but never finds, and conveys his sorrow well. The strong emphasis on the lyrics is the most positive step the band has taken.

To this add convincing musical imagery, melody that pushes emotion, not giving the listener a choice. Will Sergeant lays his guitar lines upon soft melodies instead of relying on screaming chords to dramatize the listener. Yet he manages not

to sacrifice the intensity of the music. There is a maturity in the musical awareness and now the band dictates a total effect. Ocean Rain definitely shows

the Bunnyman to have complete control of their musical ideas, displaying a keen sense musical emotion. The rhythm may be gone, but the gap has been filled well.

-Ray Barrows



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Get tough but stay cool -don't give in to the rule - That says you always have to

pay From the title track of Leave My Heart, these lyrics seem to reflect the philosophy of The Accelerators. Although few clubs will book bands that play only original music, The Accel erators have accepted such obstacles in order to achieve



A comic view of misery can be A comic view of misery can be heard in the wailing/yodeling of "She's the Only Girl I Can Stand". Other outstanding tracks include "Stilleto" (re-cently aired on WKNC 88 FM) and "Jenny" which was reand "Jenny" which was re-corded live at Mitch Easter's Drive-In Studio in Winston-Salem.

Like numerous others, this album was produced by Don Dixon. Unlike many others, the album was not recorded at Mitch Easter's, with the excep-tion of "Jenny". Producer Dixon also contributed his vocal and keyboard abilities to many of the songs.



The Top ** Sire Records

The bouncing ball, "Let's Go to Bed" boys are back with The Top, and they are between cold, lonely sheets as far as this new album is concerned. Having a few good moments along the way, The Cure fails to show any substance or belief along the

barely spinning wayward way, A large portion of the bad is the fault of lead singer Robert Smith. His voice fits the music fine during the first couple of tunes, but as the album turns, the quietly screaming voice makes every song sound the same: Ho-hum. Smith performs each song with the same lifeless tone and gives no song its own individual identity. There are three songs, "Birdmad Girl," "The Caterpillar" and "The Empty World," that would be exclient, if it were not for Smith's monotonous vocaliza tions.

The best of the album is "The Empty World." A tender anti-nuke ballad set to a repetitive marching beat, the lyrics best describe war as the twenty-first century will probably know it:

-she talked about the armies -that marched inside her head -and how they made her dreams go bad -but oh how happy she was

- to be fighting in the war

- in the empty world This song would be so much nicer if Smith's voice did not curdle the sweetness of such a haunting selection of words and music. The man's vocals drag

continued page 7: - Cure



June 20, 1984 / Technician / Entertainment /



Wendi Wesson of the Raleigh based Control Group



Cure: continued from page 6

the song too much. Only Bob Dylan could do this song great justice.

"Birdmad Girl" and "The Cat-erpillar" are good songs again hindered by Smith. "Birdmad Girl" is a jammer that stammers mid way through, but it is possible for some radio airplay. Sounding like a Captain story, "The Kangaroo story, "The Caterpiller" plinks and plops around like a doddling caterpiller on a murderous rampage.

It ems that The Cure is finished with gimmick music with The Top in asking folks to bed down. Instead of taking their serious lyrics and performing meaningful music, they poke and stab at their points, not breaking any barriers due to the ultimately blase vocals of Mr. Smith.

-Roger Winstead Entertainment Editor

****	classic
****	good
***	average
**	poor
×	appalling

Sexually titilating music and good original music: Wild night at Bear's Den also saw Control Group for

TAININ

Whew!

It is about two in the morning right now and I have just returned from the Bear's Den. I have witnessed something to-night I have never seen on a stage before: sexual teasing in a non-stripper vein.

You may ask what I am talking about. Well I'm sputtering about a cover band aptly named Jailbait. An eight member group which has three sexy vixens as lead singers and plays Top-40 music that cap-tures the attention of every male hormone. They perform great imitations of hit tunes, but it is the sexual sale of those songs which make them so popular on the nightclub and college circuit.

Natives of New York, Jailbait is the concept of Chip Rigo and Michael Berman, who formed the group two years ago with the idea to start something with a "distinct vocal sound."

The three front girls are

ROGER W. WINSTEAD

Entertainment Editor Yassmine, Carmine and Kim. They choreograph their own show and reflect that image of young seductiveness. In other words, these girls, who kind of wore Teddies and snake skintight pents, tease their almost all male audience until Levis regain their original purpose.

Their musical talents as a group are good. I would have loved having these folks play at my prom. The teachers would have had massive coronaries, but the male students would have loved every minute of it!

Besides the sex, the band has great skills to copy the works of others. They played a couple of original tunes that were not bad at all.

the first time tonight as well. I like them. I prefered them over Jailbait because I enjoy a bar band's original material over hit

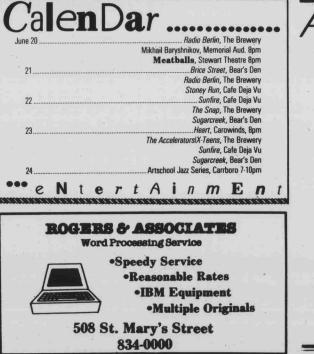
Control Group's front woman Wendi Wesson is awesome. She is the type of energetic per-former that I really enjoy watching. Her moves make the audience want in on the good time she and the rest of the band are obviously having. Their original music also makes the people want to dance.

They played at West Campus Jam and I heard that they did an excellent job of pleasing the pickled masses at the outdoor concert. I am glad I got a chance to see Control Group in the close setting that I did at the "Den". I really enjoyed their show and style.

It's now three or so and I am about to fall asleep. I will now part and say "ado" until we meet again. Good night and have a pleasant tomorrow.



Kim and Yassmin of New York City's Jailbait sing the Go-Go's.





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When: Friday, June 22 through Saturday, June 30, 1984 Where: University of North Carolina Accommodations: UNC dormitory space available if needed Pre-registration: \$250 ISAT fee, \$27 UNC fee Register now: Space is limited to first 50 registrants

Contact: ISAT before June 16(late registration \$25 more) (619) 571-8890/\$100 deposit confirms enrollment 5555 Cloud Way, San Diego, California 92117

Registration forms may be picked up at the P.E. Department in Carmichael Gym Contact Dr. Richard Lauffer for details



The milk maid/witch (Sally

A kiss of

wartiness

Nussbaumer) kisses the "Prince" (Mark Miller) in the Raleigh Ensemble Players production "The Frog Prince" in Mamet Animals. The series of three plays opens tomorrow night and will run thru Saturday in Thompson Theatre at 8:15 pm. State students \$1.00, others are \$5.00. For more information call the Center Stage box office at 737-3104.

Features

'84 World's Fair adopts water as theme

Kim Peters Features Writer

When the city of New Orleans is mentioned people automatically think of Mardi Gras, The French Quarters, Cajuns and jazz music. In 1984 another attraction has been added to that list, the 1984 Louisiana World's Fair. The '84 Expo opened May 12 and will continue through November 11, which makes New Orleans a hot

vacation spot this summer. The theme of the World's Fair is "The World of Rivers: Fresh Water as a Source of Life." The reasoning behind the theme is based on the fact that some of the world's largest cities – London, Paris, Rome, Shanghai, Buenos Aires, Vienna, New York, and New Orleans – are all on a river. Also there would not be civilization today without water.

Complimenting the water theme, the Expo is located on an 84-acre site overlooking the Mississippi River. The mascot of the Expo also relates to water, a Louisiana pelican appropriately named Seymour D. Fair.

the neighborhoods the Fair is divided into. At the Bayou Plaza neighborhood, synchronized swimming is the feature at the Aquacade and a must to see. You can also take a stroll along the Cajun Walk, or ride the Cyclo-Tower, Shoot the Chutes or the famous Giant Wheel, America's largest Ferris Wheel.

At Centennial Plaza neighborhood, be sure to ride MART (Mississippi Aerial River Transit), a gondola ride which takes you for a ride across the Mississippi River at 330 feet above the river. The cost of \$3.50 for the round trip is worth the money. You get a spectacular view of New Or-leans and the Fair. a

You can ride the Rainbow and Sky Lab at Festival Park neighborhood, but do not pass up eating at The Cafe New Orleans. This is a good place to start your day at the Fair with a breakfast of beignets and cafe au lait. Beignets are fried doughnuts with powered sugar on top and are absolutely great! The Vatican Pavilion and Reunion Hall are the main features of Fulton Street Mall. The International Riverfront neighborhood is where the Inphitheatre and riverboats which offer daily cruises. The last neighborhood, The

Great Hall, is actually the newly built New Orleans Convention Center. The Great Hall offers a lot of exbits and houses a New

Another main attraction, other than the six neighborhoods, is the Wonneighborhoods, is the derwall. Its function is to divide the different neighborhoods and to house shops and con-cession stands.

Admission to the Fair for adults is \$15 (1 day) or \$28 (2 consecutive days) and \$14 (1 day) or \$26 (2 consecutive days) for children and senior citizens. Since it was impossible for me to see everything in one day I recommend buying a two-day pass. You need to add \$5 to park your car, and there seems to be no real parking problems.

Once you enter the park I would advise heading straight for the Monorail, which is free of charge. The Monorail pro-vides you with an air-conditioned view of the park and will help you feel like you

Exposition: brace yourself for the 14% sales tax; be prepared to walk, a lot; don't be afraid to sample the food - it's great; the drinking age in Louisiana is

18, for everything, and there are plenty of places selling daiquiris and mixed drinks; and if you get bored with the Fair, the French Quaters is close by.



Orleans. Below: The Cajun Walk.

Orleans television station, WDSU's World's Fair Telecommunications Center.

Above: United States Pavilion at the '84 World's Fair in New



Photos by Kim Peters

Professor develops glaucoma test

Glaucoma is one of the leading causes of preventable blindness in the United States. An estimated 2 million Americans have the disease and, in 1978, about 62,000 lost their vision because of it.

Glaucoma, which is usually hereditary and associated with aging, threatens the vision of about 2 percent of all people over the age of 35. Blindness can almost always be prevented, but often, in the disease's early stages, symptoms are subtle and difficult to detect. Dr. Daniel Hernandez, a

neurobiologist at NCSU's School of Veterinary Medicine, is working to develop, through research at N.C. State and N.C. Memorial Hospital in Chapel Hill, a new diagnostic test designed to detect early stages of glaucoma development before clinical symptoms appear.

The term glaucoma actually represents a group of diseases, all of which cause a chronic increase in inner eye pressure. The pressure build up occurs in the aqueous humor-the fluid that maintains the firmness and shape of the eye.

Left unchecked, the pressure increase eventually begins to

MCNC cont. from pg. 5

establishment of the Research Triangle. Now, with MCNC's proposed \$6.5 million microwave communication system, which is nearing completion, all five participating universities will be linked in data exchange. The concept of teleclasses being broadcasted from a central

location will become a reality. ...So what is behind the green door? Even if the prowling student were to somehow get in, it is doubtful that he or she could ever make sense of the sophisticated equipment stored To bewildered eyes, that room might as well be the set of some well-known film by Stanely Kubrick created in a time when ideas such as ultra-large scale integration and artificial in-Soon enough, MCNC hopes to makes these ideas...practical. deteriorate the optic nerve, which sends visual images from the eye to the brain. As the damage to the optic nerve progresses, the victim gradually begins to lose his vision. Because the loss is usually painless and begins with the side, or peripheral, sight, the victims rarely realize they have glaucoma. All vision loss caused by the disease is irreversible. That is why early detection, before any damage to optic nerve occurs, is critical.

The test would entail studying the level of a naturally occurring body chemical, in a person suspected of having glaucoma. The chemical, Alpha-Melanocyte Stimulating Hormone (Alpha-MSH), is one of 30 protein chains which our bodies have been identified as producing. These protein chains, called peptides, act as chemical communicators between nerve endings. According to Hernandez, Alpha-MSH plays a role in regulating inner eye pressure and, when administered to the eyes of laboratory animals, causes a dramatic increase in such pressure.

At the School of Veterinary Medicine, he is studying how

SHISHIR SHONEK

-Science Editor

the peptide controls inner eye pressure. Through these tests, Hernandez says he hopes to uncover information needed to understand the development of glaucoma. "Research into the role of peptides in vision is new," he said. "Very few groups worldwide are studying them, but the work being done prom-ises to generate a trend in that area. So far the results give us reason to believe peptides are performing important functions in the eye and may play a role in ocular diseases.

Encouraged by the results obtained at the State laboratory, Hernandez extended his studies to Chapel Hill's Memorial Hospital, where he is com-paring the levels of Alpha-MSH in blood samples obtained from diagnosed glaucoma patients and healthy volunteers. Preliminary results from the studies indicate that the peptide is found in higher concentrations in the blood of glaucoma patients

The information Hernandez gathers will be used to de-termine normal levels of the peptide as well as levels which may signal the development of glaucoma. Because many types of glaucoma are hereditary, a person with a family history of the disease could take advan-tage of the blood test and prevent any loss of vision through early treatment. As the studies progress. Hernandez hopes to determine whether there is any correlation between a glaucoma victim's age and his level of Alpha-MSH.

In addition to the more direct implications of Hernandez's research, his experiments will be important to other researchers who are studying the disease. "Previously, glaucoma re-searchers have not had a satisfactory way to simulate glaucoma conditions in the laboratory, but the animal model we are using to study the cellular physiology of Alpha-MSH may also be used by others to simulate glaucoma conditions."

The preliminary results of Hernandez's work at N.C. State and Memorial Hospital were presented in May, at the American Association for the Advancement of Science and the Association for Research in Vision and Opthalmology meetings. The studies are being funded by grants from the National Society to Prevent National Society to Frevent Blindness, the American Veter-inary Medical Association Foundation and the Department of Ophthalmology, UNC-Chapel Hill

Collaborating with Hernandez Collaborating with Hernandez in the study are Dr. Kenneth Simons, chief resident of ophthalmology, Memorial Hos-pital; Dr. George Mason, neurobiologist, Biological Sciences Research Center, Cha-pel Hill; and Dr. Robert Peiffer, Jr., ophthalmologist at the NCSU School of Veterinary Medicine and the UNC-Chapel Hill School of Medicine. Hernandez, who joined the

Hernandez, who joined the N.C. State faculty as a half-time member last July, has been associated with the UNC-Chapel Hill Biological Sciences Research Center for three and a half years. His research into the role of peptides in vision also includes the investigation of another peptide which he believes may be involved in regulating pupil size.





sandwiches plates

Mission Valley Shopping Center

10 / June 20, 1984 / Technician / Sports

State Booters develop talent

Scott Keepfer Sports Editor

With his program established as one of the very best in the country, State head soccer coach Larry Gross has been busy taking additional off-season steps to improve his group of talented booters.

Gross' '83 squad compiled a fine 13-6-1 mark, including identical 2-1 wins over perenial powers Clemson and Philadelphia Textile. But what sticks in the minds of that team as well as in the minds of Wolfpack soccer fans — are a pair of frustrating one-goal losses to Duke. The Blue Devils, national runners-up in '82, eased nast the Pack 2-1 in last years' bitterly-fought first-round NCAA Tournament clash in Durham. Earlier, Duke had handed State a tough 1-0 defeat in Raleigh. These "close, but no cigar"

results may become a thing of the past, however, as Gross will bolster his impressive group of returnees with one of the best recruiting classes in State histo-

ry. With eight highly-regarded newcomers joining such scoring threats as senior striker Sam Okpodu and sophomore mid-fielder Sadrija Gjonbalic, the '84 ason should provide plenty of thrills and excitement - and perhaps the Pack's fourth NCAA tourney appearance in the past five years

The list of signees includes a trio of *Parade* magazine all-Americas and Nigeria's national Player-of-the-Year.

"This recruiting class, creden-tial-wise, is one of the strorgest classes we've ever had here at

State," Gross said. "A great deal senior campaigns at Vernon High of the credit should go to School and posted goals against assistant coach George Taran-tini. He did an excellent job of spectively. recruiting.

The most highly-touted of the lot is **Tab Rames**, a 5-5, 135-pound Midfielder/Striker from Kearny, New Jersey, Ramos was virtually all-everything as a prepster at St. Benedictine's Prep in Newark.

Currently a member of the U.S. Olympic soccer team, Ramos was chosen national Player-of-the-Year by Parade and was generally regarded as the country's No. 1 high school prospect. The New York Cosmos of the NASL selected the high school phenom in the opening round of last year's fall draft, but fortunately for the Wolfpack. Ramos opted for an Olympic tryout and college scholarship. Ramos spurned offers from Indiana, Duke, Virginia and Rutgers.

Ramos, who started for the U.S. team in the 1983 Pan American Games and is a veteran of 29 international matches, scored 57 goals last season to establish a New Jersey career record with 161.

Without a doubt we are extremely pleased to have some-one of Tab's talent and national reputation playing for State next fall," Gross said. "We feel he should contribute immediately. His ability to step into our program and help us is without

program and help us is without question." The Pack's second Parade all-America — and one of three goalies signed by Gross — is **Kris Peat**, another New Jersey native. The 5-9, 150-pounder from Sussex, N.J. recorded 28 ebutoute during his junjor and shutouts during his junior and

spectively. Peat, who was chosen the top goalie for the second straight year at the Granatkin Tourna-ment in Leningrad, Russia, picked State over Connecticut and North Carolina. Peat should contend for the goal keeping spot

immediately. The Pack's third Parade The Pack's third Parade selection is Arnold Siegmund from Middle Village, NY. An outstanding defender at Arch-bishop Molloy High School,

Siegmund led his team to the City Catholic Championship.

Siegmund was selected to all-New York City and all-state teams and played on the U.S. Junior National Team.

Jim Cekanor and Gord Frey round out Gross' incoming goalies. Cekanor, a 6-0, 165-pounder from Darien, Illinois, was an all-state pick and a ChicagoTribune Athlete-of-the-Week.

Frey, the Goalie-of-the-Year in the National Canadian Soccer League, is a 5-10, 150-pounder from Mississauga-Ontario, Canada.

Chilbozor Ehilegbu, Nigeria's National Player-of-the-Year, will continue State's talented line of booters from that country. The 5-9, 145-pounder from Ibadan is a member of the Nigeria Senior National team. Tom Clark, an all-conference

pick from Poughguag, N.Y., and Brian Bozzo, a 5-8, 145-pounder from Centerville, Ohio complete the '84 recruiting list. Clark was a member of the New York select team, while Bozzo was an all-Dayton area selection.



Success for the Wolfpack booters should continue over the next few years as head soccer coach Larry Gross recently announced the signing of eight high school standouts. Included in the group of recruits is Tab Ramos, Parade magazines' national Player-of-the-Year







