

## What's Inside...

Staff movie critic takes a hard look at *Flatliners*, see page 15 for the story.

Clemson student launches his own business, take a look at page 12.

Don't forget to watch the Tigers cripple the Cavs: Saturday at 4:00 on ESPN.

# The Tiger

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Volume 84, Issue 2

Clemson University, Clemson, South Carolina

Friday, September 7, 1990

## Kappa Kappa Gamma wins First Friday float title

by Adrienne Aucoin  
staff writer

The 1990 Tiger football season officially began with the 17th annual First Friday Parade last week.

The theme of this year's parade, California-Clemson style, featured floats built by various campus organizations and other marching groups.

The grand marshal was Governor Carroll Campbell and other political personalities were present. Other entries included the Tiger Band, Angel Flight and the University Cheerleaders.

In the float competition, the members of Kappa Kappa Gamma sorority took first place. Second place was awarded to Alpha Delta Pi sorority and Gamma Phi Beta sorority took third place.

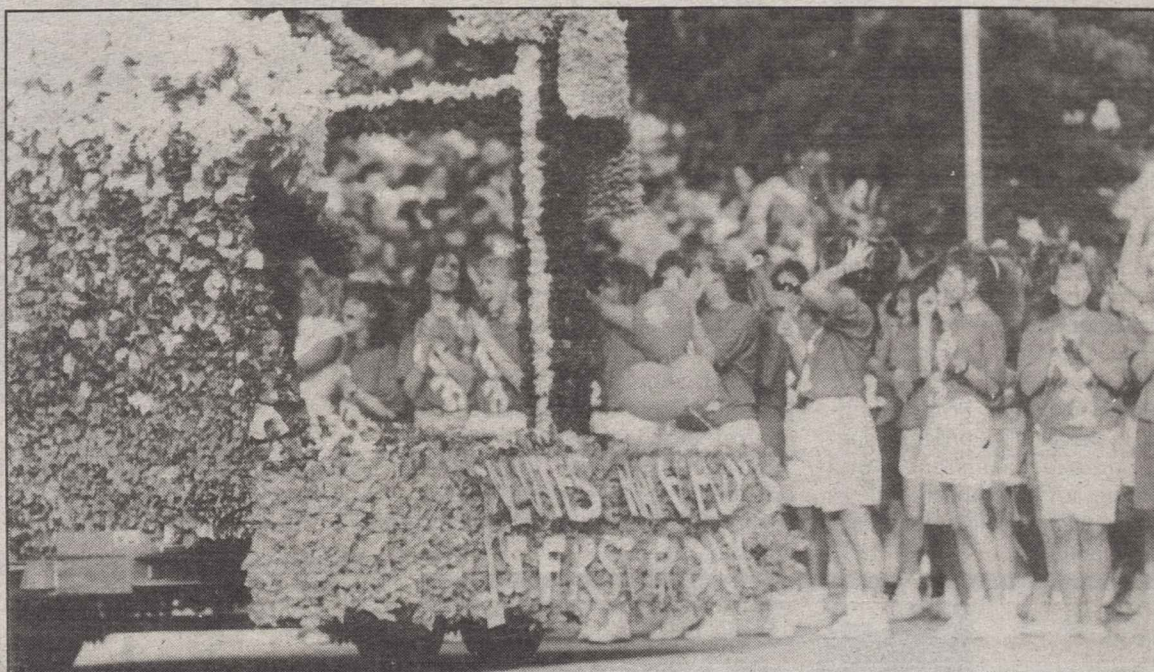
Becky Bamford of Kappa Kappa

Gamma was crowned Miss First Friday. Sally Miller of Alpha Chi Omega was first runner up and Betsy King of Chi Omega was second runner up. Although the grand total of money raised was unavailable, the funds will be used to benefit Helping Hands of Clemson.

The parade was sponsored by the Pi Kappa Alpha fraternity and Central Spirit. "Everything went well," said Matt Dey, First Friday Chairman. "I would like to thank all the participants and sororities for their donations," he added.

Immediately following the parade, in the amphitheater, the Tiger Cheerleaders led a pep rally during which the judges announced the winners of the float competition and the new Miss First Friday.

Following the pep rally the Jody Grind and the Cosmonecks provided students with entertainment to close the celebration.



Clemson kicked off the 1990 football season with the annual First Friday Parade. California-Clemson style was the theme of this year's parade. Kappa Kappa Gamma took first place honors for its entry in the float competition.

## At Apparel Research Center

### Chemical warfare suits studied

by Bill Swain  
news editor

The protective suit ready for use in the event of chemical warfare is undergoing refinement research here at Clemson.

The Clemson Apparel Research Center has been working for about a year to investigate the feasibility of "stitchless technology" to be used in the production of the chemical protective uniform (CPU) for the U.S. Army, Site Director Ed Hill said.

The current CPU suit is made from a twill or canvas outer shell and lined with an activated charcoal impregnated foam fabric, he said. Clemson's research is dealing with using ultrasonic, heat fusing, gluing and radio frequency fusing to replace conventional stitching techniques.

"It's a very difficult garment to produce," Hill said, because "the needle penetrating the outer shell and charcoal lining causes dust to go out into the air." "People who



Kevin Taylor/head photographer

Over the past ten years, Clemson University has been involved in chemical warfare suit research for the defense department.

produce this garment look like they work in a coal mine," he said.

Because of the charcoal powder in the suit, clothes must be worn underneath making it uncomfortable to wear in hot weather. Hill

said the suit could only be worn for about three hours in the Middle East because the soldiers would be

see, **SUIT**, page six

## Underage drinkers have day in court

by Bill Swain  
news editor

The first weekend of the school year yielded more than 200 alcohol-related arrests, officials said.

Tuesday, more than 100 of them had their day in court, many losing their driver's licenses for 90 days.

Members of the Alcoholic Beverage Control (ABC) commission, state police and County Deputies saturated the town of Clemson on Aug. 24, 25 and 26.

The new law states that anyone convicted of possessing alcohol under the age of 21 or having false identification will lose their driving privileges for 90 days for a first offense.

Joseph Dorton, director of enforcement for the ABC, said The new driver's license law will be "one of the most effective tools we've been given."

However, for Clemson students

the case may not end in court. According to Vice President for Student Affairs, Almeda Jacks, "no matter where you are, as long as you're enrolled in Clemson, you are representing the school."

The student handbook states that the administration has the power to "impose sanctions against a student for violation of any regulations that occur off campus when the alleged conduct would, if true, impair, interfere with or obstruct the missions, processes or functions of the University..."

What this means for students is, in addition to losing a driver's license and paying a fine a student may be required to attend a six-hour alcohol education class, Jacks said.

"They (students) look at us as adversaries as THE administration not wanting them to drink but it's the law. That's the bottom line,"

see **BUSTS**, page 10

## New city ordinance sets limits for excessive noise

by Susan Biggers  
assistant news editor

The second reading of a new city noise ordinance was postponed Tuesday night at the city council meeting until more information could be gathered to better answer questions of the community. If it passes, established limits of noise levels will be enforced.

The new ordinance "...will take into account the latest scientific advances in noise measurement and control while at the same time, preserving the common law determination of what constitutes a

disturbance or public nuisance," as stated directly from the proposed ordinance.

The proposal also states that it will be unlawful for "...any person, firm, association, corporation or entity within any area of the City to use or operate any radio, ...or other machine or device for producing or reproducing of sound or to create...the continuation of any noise..."

The Clemson City Police Department will enforce the ordinance. After answering a complaint, an officer will use equipment capable of measuring noise in decibels. A

reading of 65 dB will be allowed between the hours of 7:00 a.m. and 10:00 p.m. Only 55 dB will be permitted from 10:00 p.m. until 7:00 a.m.

In comparison, a library has been measured at 40dB, a conversation at 60dB, a vacuum cleaner at 75dB, and heavy traffic at 80 dB, according to Clemson City Police Chief Johnson Link. In a test, the area near the Clemson House scored 56 dB during the day with noise from a lawnmower in the background.

A radio played at 65 dB is at a volume by which a person trying to speak would have to raise their voice to be heard over it, according to

Link. The microphone used to measure the intensity of the noise will be placed on the exterior property line, at least five feet from any wall.

The exterior line of "closely confined living areas," such as an apartment, will be considered as the walls separating the individual units.

If the officer answering the noise complaint finds a violation of the ordinance the "noise source" will be allowed to discontinue the disrupting noise with no penalty. If the violation continues or recurs, a fine of not more than \$200 or imprisonment of not more than 30 days will

be imposed.

The noise ordinance exempts construction sites, emergency signals, material handling by sanitation crews, airport noise, trains, electronic church carillons or chimes, parades, carnivals and other public social events.

The sound-measuring equipment will cost approximately \$2,000 as Link reported to council at the first reading of the ordinance.

Chief Link said that he likes the new ordinance because it sets limits, making it easier for the officers to deal with noise complaints.



# Academic Learning Center progressing

by Cy League  
staff writer

Construction is well under way in the area between Jordan Hall and Bryan Mall of the new academic Learning Center. The \$2.5 million project, underwritten by IPTAY, is expected to be complete and ready for use in Spring of 1991.

The Clemson University Athletic Department, two years ago, perceived a need for improving the academic assistance programs at the disposal of student athletes. They approached IPTAY with a proposal for a facility like the one currently under construction.

IPTAY agreed to underwrite the project, planning to supply the \$2.5 million from membership revenue. Since then, the plan has come partially under the auspices of a campus-wide improvement plan, the Capital Campaign.

Donations to the Capital Campaign can now be designated for the Academic Learning Center. IPTAY will make up the difference, if any, between this revenue and the cost of construction.

The Academic Learning Center will consolidate the Athletic Academic Advising Program currently in place. This program supplies tutorial assistance and scheduling advice to student athletes but is dependent for classroom space on the availability of Daniel Hall.

This precludes athletes from receiving aid at times most convenient for them and, according to Dr. B. J. Skelton, Associate Vice President and Dean of Admissions and Registration, partially justifies the new building.

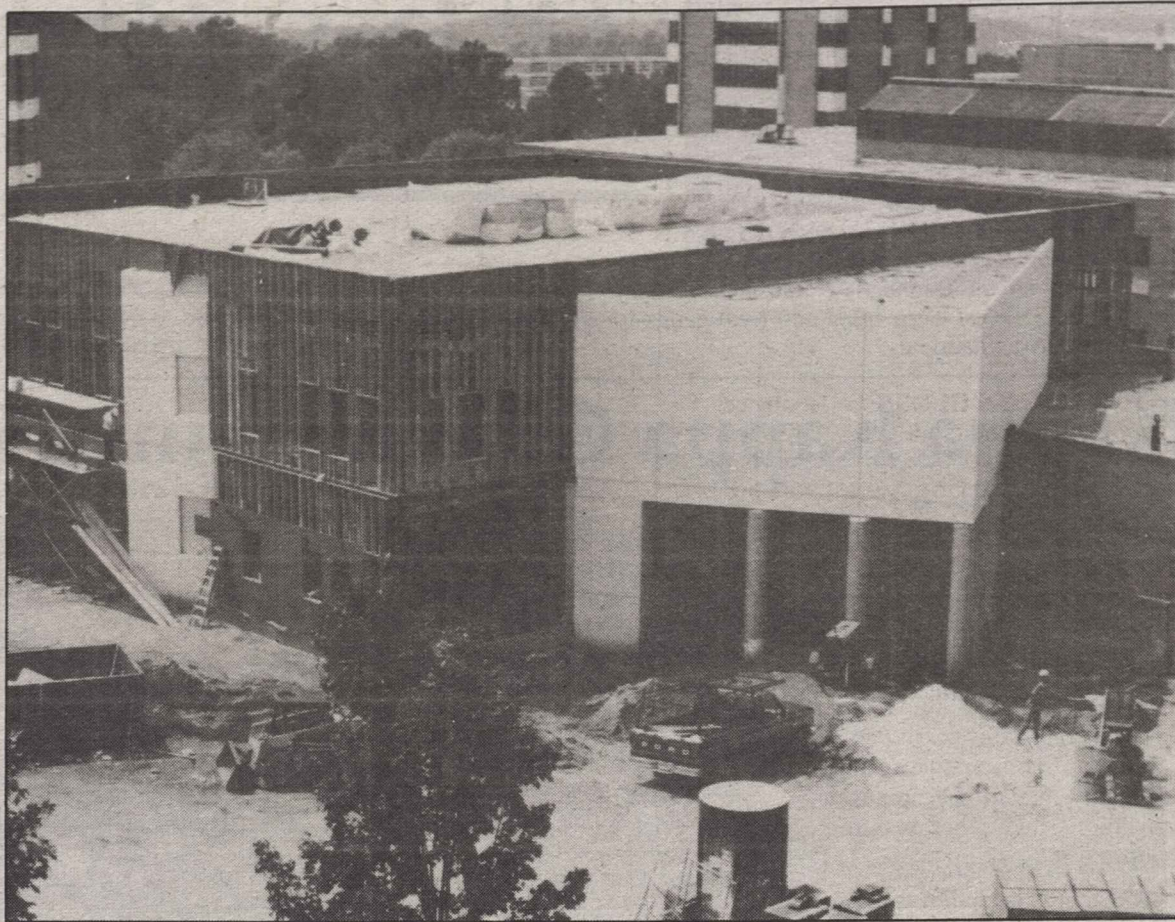
The philosophy behind the project revolves around the fact that many athletes are academically deficient in comparison with the mainstream of the student body.

Some, due to their athletic prowess, are receiving an educational opportunity that would not ordinarily be available to them. In this way they are related to certain other groups of students who, for varying reasons, may receive special consideration during the admission process.

According to Allison Dalton, the Secretary of IPTAY, and Skelton, once any student is admitted, the paramount responsibility of the University is to ensure that they graduate with a meaningful degree.

The reason, in this case, that an athletic facility is being built is that the money is coming from a source primarily concerned with student athletics.

When completed, the Academic Learning Center will fall under the control of Clemson University. Student Athletes will receive priority but as space is available other groups will be allowed use of the building.



Chip East/senior staff photographer

The \$2.5 million Academic Learning Center is progressing on schedule. Expected completion for the project is Spring of 1991.

## At Brackett Hall

# Asbestos removal to begin

by Cy League  
staff writer

Asbestos abatement crews are scheduled to begin work in Brackett Hall sometime this fall in the first major step of a plan to totally renovate the interior of the building.

This two-phase project, managed by Randy O'Kelley of the University department of design and engineering, involves completely remodeling the interior and much of the exterior of the building with an eye toward altering but not abandoning the original architectural style.

Phase I, approximately 70% of the whole, is expected to be complete by Spring of 1992 and cost

around \$6.5 million.

Brackett Hall was built in two parts. The main building, erected in 1951, includes the three sides facing Hardin Hall, Tillman Hall, and Bowman Field.

Phase I of the project involves these sections. The annex to Brackett Hall was built in 1965 and its renovation will be undertaken in phase II of the project, scheduled to begin as soon as money becomes available after phase I is complete.

The Brackett Hall renovation project is being coupled with a University-wide policy of gradual asbestos abatement within the dormitories and academic buildings.

Asbestos removal will be com-

plete in Brackett's main building by Christmas of this year. During the removal process, the annex of the building will be in use; likewise, in the Spring the annex will be cleared while the renovated sections are occupied. According to Mr. O'Kelley, this process poses little danger to students.

Before any renovation including asbestos removal can begin, however, chemical residue, hazardous to the renovation process, which remains in the duct work must be removed. This project is scheduled to begin next week.

Architecturally, Brackett Hall owes its present look to 1950's style. As a University structure of this era, it was built for durability and utility.

The project design team has worked within this original architectural context, altering what is cold and harsh while keeping what is practical to its use as a general classroom and office building.

The planned changes include more defined entrances, a simplified flow of traffic within the building, and more natural lighting. These changes, according to O'Kelley, will alleviate the dark, somewhat maze-like feel of the building that is presently predominant.

One of the most striking alterations is slated for the little known central courtyard enclosed by the perimeter of the structure.

This area will be covered by a clear roof and the various floors will open toward it with railed balconies creating, in O'Kelley's words, a "mall-like" effect.

When the Brackett Hall renovation is complete, the facility will be used as classroom and office space for the Psychology, Political Science, and Geology departments as well as Undergraduate Studies and University Research.



Bill Swain/news editor

## I hate heights.

Members of the Alpha Phi Omega service fraternity worked to sand and repaint the post holding the sign on highway 93.

# Construction sites targets for theft of materials

by Cameron Boland  
staff writer

Over the past few weeks there have been a large number of thefts at construction sites around campus and the surrounding area, according to John McKenzie, public safety officer at the Clemson University Police Department.

McKenzie said such thefts "traditionally" occur at this time of year. Students trying to make their dorm room or apartment a little more livable sometimes find construction sites more enticing than hardware stores when it comes to acquiring building supplies. Cinder blocks, 2X4's and plywood seem to be the hot items lately, he said.

Some people are a bit more ambitious, however. As of last Saturday, four port-o-lets have turned up missing.

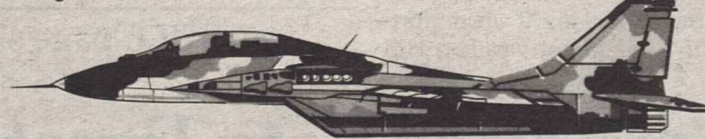
There have been more thefts this year than in previous years, but that is largely because of the increased number of construction projects going on now, McKenzie said. The issue has caused some concern at the University Police Department. They have stepped up the number and frequency of patrols around construction sites.

Although, due to monetary considerations, McKenzie concluded, no officers have been permanently posted at any of the work areas, that action is not outside the realm of possibility.

## FYI

### MiG-29 'Fulcrum' fighter

The Iraqi military is known to possess many of the Soviet MiG-29s. The 'Fulcrum' represents the state of the art in Soviet fighter aircraft design.



#### Vital statistics:

**Country of origin:** Soviet Union  
**Crew:** One  
**Weight:** 39,683 lbs. (20 tons)  
**Length:** 56 ft. 9-3/4 in.  
**Wing span:** 37 ft. 3-1/4 in.  
**Height:** 15 ft. 6-1/4 in.

#### Performance:

**Maximum speed:** Mach 2.3  
**Range:** About 1,305 miles.  
**Ceiling:** 55,775 ft.  
**Rate of climb:** (at sea level) 64,950 ft per minute.

#### Armament:

**Fixed gun:** One 30 mm cannon in wing.  
**Other weapons:** Six under-wing pylons for Alamo-A, Aphid, Amos, or Archer Anti-Aircraft Missiles.

#### Detection systems:

**Radar:** Pulse-Doppler look-down/shoot-down radar.  
**Other systems:** Laser rangefinder and infrared search and track sensor.

Source: Soviet & E. European Major Combat Aircraft, Tri-Service Press Stephen Conley, GNS



# Around the world...

## International news

### IRAQIS FREE 120 'GUESTS':

An Iraqi jetliner carrying more than 120 Western hostages - including 28 U.S. citizens - flew to freedom Tuesday, the latest in what U.S. officials here hope will be a wave of flights home. The Iraqi Airways flight, chartered by U.S. and British embassies here, was Tuesday's third out of Baghdad. On the others: 135 West Germans and 170 mainly Arab nationals.

### MORE EMBASSIES CLOSE:

Eight diplomats and other U.S. citizens at the besieged U.S. Embassy in Kuwait City are in a "very sad" situation, Secretary of State James Baker told a congressional panel Tuesday. Ambassador W. Nathaniel Howell is defiant, Baker said. Meanwhile, embassies are closing in Kuwait: Turkey's ambassador left, Morocco's diplomats were sent to Baghdad, and Norway's ambassador was ousted.

### SUMMIT MAY BOND USA, USSR:

The White House said Sunday's meeting in Finland between President Bush and Soviet President Mikhail Gorbachev could be pivotal in the crisis. Spokesman Marlin Fitzwater said the two leaders may "forge an even stronger bond" of international opposition to Iraq's President Saddam Hussein.

### BLOCKADE RUNNER NABBED:

The United States Tuesday bagged its first Mideast blockade-runner: an Iraqi freighter loaded with Sri Lankan tea. The 3,549-ton

Zanoobia was taken to Oman's port of Muscat under the command of U.S. sailors and a Coast Guard boarding party who took over the ship in the Gulf of Oman. The ship left Sri Lanka after the United Nations imposed sanctions against Iraq.

### MORE DIE IN S. AFRICAN VIOLENCE:

South African soldiers fired on thousands of angry blacks Tuesday and rival gangs fought with axes, knives and spears as at least 40 people were killed in township violence. The violence came as President F.W. de Klerk and African National Congress leader Nelson Mandela visited black townships near Johannesburg to call for a halt in fighting that has killed more than 550 people.

### GORBACHEV TO OFFER PLAN:

Soviet President Mikhail Gorbachev, under pressure from rival reformers including Boris Yeltsin, plans to present a sweeping economic plan to the Soviet legislature as early as Monday, a spokesman said. Gorbachev apparently has abandoned a moderate plan drafted by Soviet Prime Minister Nikolai Ryzhkov, opting instead for a plan drafted in large part by Stanislav Shatalin, a reformer.

## National news

### SOUTH CAROLINA ROADS DANGEROUS:

South Carolina's local roads are the USA's most deadly, a USA TODAY computer analysis shows. In 1988 and 1989, 1,900 people

died on South Carolina's state, county town and other local roads. The 10-week analysis found 89 percent of the USA's 45,555 traffic deaths were on local roads in 1989. Safest local roads: Minnesota and Utah.

### ABA BACKS SOUTER:

The American Bar Association, the USA's biggest lawyers' group, gave Supreme Court nominee David Souter its top rating Tuesday, but liberal groups warned it will be a tough road to confirmation. A committee representing the ABA gave Souter a unanimous "well-qualified" rating after three teams of lawyers studied Souter's writings as a New Hampshire judge and the state's attorney general.

### SCIENTISTS FIND ARTHRITIS LINK:

Scientists for the first time have pinpointed a genetic defect that can cause osteoarthritis, the most common form of arthritis. Researchers at Thomas Jefferson University in Philadelphia say the defective gene was identified by studying 19 family members spanning three generations. All those with osteoarthritis had the gene defect, but none of the healthy members had the defect.

### PRIORITIES LEAN TO BLUE-BERRIES:

Two school districts along Maine's coast have postponed the first day of school so students and teachers can help harvest a record wild blueberry crop. The state's largest grower and processor asked for the postponement. There are 3 million pounds to harvest this week and only half would get done if school were in. The 150 students will start classes Sept. 10.

### BROWN PLEADS GUILTY:

Former South Carolina state

representative Robert Brown pleaded guilty Tuesday to taking \$2,500 in bribes to back a bill permitting pari-mutuel racing. Brown agreed to help nab others accused of receiving payoffs from Ron Cobb, a lobbyist recruited by the FBI. Brown resigned Aug. 23, one day before he was indicted. Free on bond, Brown faces up to 20 years in prison and a \$250,000 fine.

### DENTIST SAID TO INFECT PATIENT:

David Acer, a Florida dentist infected with the AIDS virus, is urging his patients to be tested for the virus. Acer says he does not believe he infected a patient with the HIV virus while pulling a tooth. The Centers for Disease Control

reported last month that Acer's was the first case in which a health professional apparently transmitted the disease. Acer said he is dying from AIDS.

### ILLEGAL DRUG USE DOWN:

Fewer adults and teen-agers are using illegal drugs, according to the Partnership for a Drug Free America. A study of more than 8,000 people found that Marijuana use among teen-agers was down 27 percent from 1989; It declined 6 percent among adults since 1987. And 5.9 percent of teen-agers reported using cocaine within the last year - down from 10.6 percent a year ago.

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## Coming Up!

Sept.	9	The third annual 'Just Say No' Walk begins at 1:30 p.m. in the grass parking lot west of the tennis courts.
	12	The last day to order diplomas for December graduation.
	13	Garland Lancaster, a heterosexual in his late 20's diagnosed with AIDS, will be speaking in Tillman Hall from 7:00- 8:00 p.m.
All month		The National Association of State Alcohol and Drug Abuse Directors has named September National "Treatment Works!" Month.



# CHIEFS

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# Opinions

## Editorial

### Big Brother IS Watching

"No matter where you are as long as you're enrolled in Clemson, you are representing the school," says Almeda Jacks, Vice President for Student Affairs.

Being a full-time representative of the University also means that the University has authoritative power over the student twenty-four hours.

This statement should read, "While representing Clemson, you are responsible to the University for your actions." An organization on an off campus trip is responsible to the University. Individual students off campus are only responsible to the state laws.

#### Our Position:

**The University has no authority over off campus student activity.**

It is not right for a student to be punished by the law and then also face disciplinary action from the University. This is essentially a double sentencing.

The University denies that a six hour alcohol awareness class, that may be required of the student to attend for an alcohol related offense, is a punishment, but if it is against the student's will then it seems fair to qualify it as such, especially if refusing to attend may result in suspension.

The University is imposing a jurisdiction greater than the United States government! If for instance a student decides to vacation in Europe during winter break, any violation occurred overseas could result in actions by the University provided it is reported.

The incoming freshmen were told during orientation that Clemson would not act as "parents" for the student. The students themselves are adults and act on their own. Was the University hiding the truth from these students?

On the same matter if the University is going to require classes of students on proper behavior shouldn't the University also require it of the people that also run the University, like the Board of Trustees.

## National

### Trust The Markets For Declining Gas Prices

The current complications in the Middle East have developed into higher gas prices at the pump. Many consumers angered by the increase in prices blame the oil refineries. The complaint is that why should gas prices increase now when the current supply of gas is sufficient to the demand. Customers attack the local gas stations of price gouging.

The truth is that the pricing is out of the hands of the gas stations and refineries. The commodities market controls the prices. A free market, which cannot be influenced by any one individual or company because of the enormous size of the market.

The prices are set by people buying and selling on the futures market. The events in the Middle East simply add to the speculation of those dealing in the market and consequently effect the price.

Currently the speculation is for a shortage and as a result the prices are increasing. How can the speculation be for a shortage already? As in any true market if the producer believes he can make more money for his commodity at a future date, then he will hold on to that item until that date. This is what is happening in the Middle East.

A similar occurrence happens whenever a deep freeze dips down into the citrus area of Florida or Brazil experiences bad weather. The speculation of a shortage causes an increase in the price of orange juice or coffee, respectively.

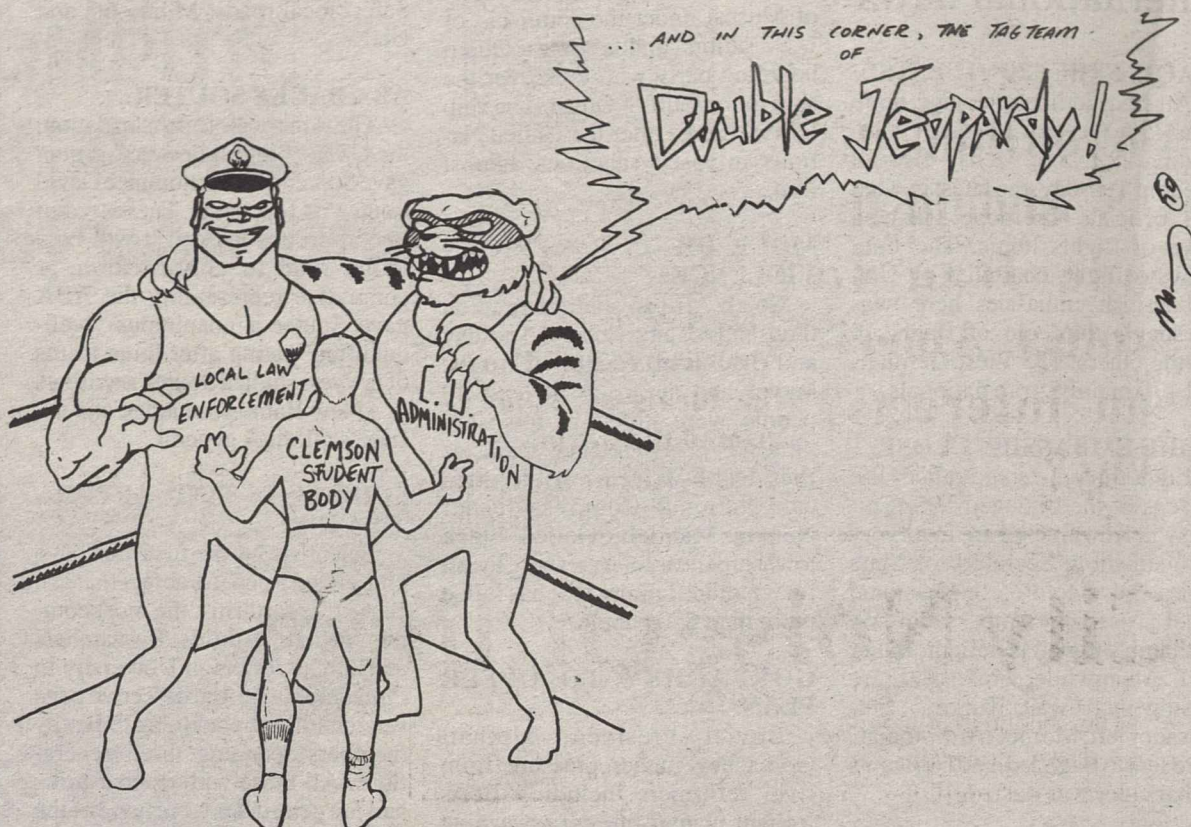
Many people will then incorrectly suggest for regulations on the market. Expecting that wishful thinking or anticipation will prevent an inflation of prices at the gas pumps.

The market, however, is an early warning indicator of upcoming crises. The market informs analysts of crunch periods, such as the one the economy currently experiences, and prevents these "crunches" from turning into a real crisis.

What should the American consumer do right now? Trust the market.

The oil companies cannot hold down the price of oil. This attempt has already been tried by ARCO and it resulted in the company running out of gas. The oil companies are not being greedy just simply reacting to events beyond their control.

The conflicts in the Middle East will eventually be resolved and in turn new speculations on oil will change the market prices, changing the prices at the pumps.



## Nothing beats small town life

NOTE: This column came as a result of a conversation Terry Manning and I had the other night and is dedicated to my family and the many memories I have of growing up Southern.

Around the time I was ten or twelve, summer mornings meant gettin' up early and exploring the creek behind our house. I had this small napsack that my mom made me from the pants leg of an old pair of blue jeans and I used to fill it with my canteen, a little debbie cake and a sheath knife that my dad had given me.

That little stream was a different world to me. This was a world owned by the frogs, the mosquitos and the minnows that played in the pool near the old stump. They were kind enough to let me visit everyday.

I would bring a small fishing pole and try to catch those minnows, but I would always throw them back. They were a part of this world and should remain and besides they were too small to eat.

A few feet away from this small world of mine, lay the efforts of my grandfather. A great wall of corn stalks provided the barrier from my back yard and hid the watermelons, canteloupe and tomatoes that he had labored to plant on the other side.

While I was busy exploring my world, my mother would be

**Managing Editor**

**S. Dean Lollis**



working on the day's harvest. All of the work involved in making these vegetables grow became evident most every night when we set down for supper.

Now, I will admit I was never a fan of the cucumber or that nasty cream corn, but I loved those field peas. I will argue with anyone that there is no garden vegetable better than those peas that my grandfather grew—well, except for his tomatos.

I even had a small garden of my own—a six foot by six foot plot behind the house filled with radishes and a lone watermelon vine. I never got much into gardening at that time though. I am one of those people who'd rather have that finished product handed to them without the work involved to get it there.

My grandfather worked on the garden in his spare time. During most of the day, he built houses for a living; he even built our house. I worked with him a few times and it still amazes me how he could take such simple tools as a hammer and saw and such simple materials as lumber and nails and convert them

into an intricate structure of a house.

Grandpa is a well known member of the small community where I live. This little corner of the earth is known as Hickory Tavern and if you don't know where it is, then I am not going to bother telling you. It's a nice place and we don't want anybody coming there who's going to change it.

Hickory Tavern is a small town—so small in fact that we don't even have a zip code. The town, however, is one of those where if you mention someone's name a Hickory Taverner can at least tell you who he's kinned to.

Hickory Tavern is a proud town. When one of its own is hurt or stricken by disaster the members of the community band together to help him out. I like that. In the "me" generation it is a rarity to see someone helping out his fellow man.

When I was younger, I hated the place. I longed for that action and excitement of the city. The last couple of years have helped me realize that I love the quiet side of the country. One day I want my son to be able to fish for minnows in a quiet brook or do something with his grandfather in a nice setting.

These feelings are uniquely Southern and I am proud of my small town heritage. For anyone who wants to knock it, give me a call, we'll go to that little stream and I'll teach you how to catch those minnows.

## The Tiger

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Serving the University Community since 1907

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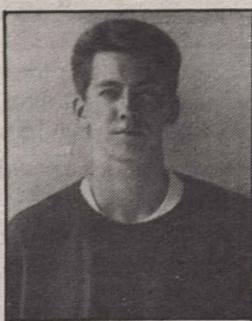


# Speaking Out

photos by Todd Trimakas/staff photographer

Question:

**Do you think the U.S. should invade Iraq to protect American interests? Why?**



Yes, because I believe Americans should protect the ideals of democracy around the world.

Richard Alexander  
freshman



No, because America shouldn't invade a country for corporate interests.

Andrew Roden  
graduate student



Yes, to protect Americans that don't want to move out and happen to be in Iraq.

Dana Williams  
freshman



No! An invasion would be a fatal recreation of the Vietnam Conflict.

Julie Surret  
freshman

## City Noise Ordinance Can Deafen A Party

The second reading of a proposed city noise ordinance was postponed until the next regular city council meeting Tuesday night. The community has shown much concern and more information must be gathered to better answer any questions. If it passes, not only will those hosting off campus parties have to be aware of who is and isn't of legal drinking age but now they'll also have to closely watch the decibel level of the party.

The ordinance sets a ceiling of 55 dB as the legal limit for noise levels from 10:00 p.m. until 7:00 a.m. Violators can be issued a fine of up to \$200 if they have been previously warned.

For those wondering exactly how loud 55 dB is, here are a few examples. A conversation

SUSAN  
BIGGERS

ASST.  
NEWS  
EDITOR



has been measured at 60 dB and a vacuum cleaner at the incredible level of 75 dB.

The ordinance is good in that it provides a defined limit for noise levels. Police will no longer have to make a personal decision of how loud is too loud.

My concerns are that people with vendettas to settle with neighbors that have proved to be rowdy in the past will call police when they suspect the smallest violation.

Secondly, how realistic is

it to expect a party to remain at a conversational level? A compromise is necessary.

The permissible decibel level should be raised for the weekends and allowed to continue past the current 10:00 p.m. cut-off until 12:00 a.m.

On the weekend, those attending parties should be aware that they may be disturbing their neighbors but keeping the level of a party at 55 dB would be close to impossible.

Even though some people may have had their homes established long before a fraternity decided to locate in a particular area or before an apartment complex was built, they should keep other factors in mind other than the suspected decibel level of the party before calling police. They should keep in mind

the time, is it a weekend or weeknight and have they already been warned to quiet down?

If it's 2:00 a.m. on a weeknight and a party is resulting in windows vibrating in peoples' homes who have to be at work the next morning, then I think it's safe to say that they have every right to call police.

On a weekend though, residents should understand that parties are going to occur and won't remain at the 55 dB level after 10:00 p.m. Just because it's 10:05 and a neighbor suspects a party next door is in violation of the ordinance by five decibels they should not immediately call police with a complaint.

They need to keep in mind that many students use a party as a way to vent frustration that

has accumulated through the week associated with college.

On the other side of the compromise are those hosting such parties. Just as they have the right to throw a party, their neighbors have the right to a peaceful night, especially on weeknights.

Such a noise ordinance in effect, as it presently stands, means that those having parties will have to be considerate of their neighbors or suffer the consequences, like a fine of up to \$200.

Also, neighbors should understand and expect some noise to radiate from a party and not be too quick to call police.

A little consideration and cooperation would only provide a more peaceful environment for everyone.

## Teaching Assistants Losing Contact With Students, University

We would like to call attention to an apparent change in Clemson University's educational priorities.

Recently, an office in Riggs Hall, which was occupied by teaching assistants in the ECE department, was converted to research space. The teaching assistants were relocated to "temporary" buildings behind Earle Hall. We feel that this move will adversely affect the quality of undergraduate education in the College of Engineering.

It is our understanding that the purpose of providing offices for teaching assistants is to allow instructor/student interaction. The office in Riggs satisfies this purpose. In addition, its proximity to laboratories, classrooms, mailboxes, photocopiers, and other resources, allows us to be accessible for a large portion of the day.

However, we feel that the location of the new offices will hinder communication between undergraduates and their instructors. This is primarily because students will not be willing to walk to the trailers. Also, the graduate assistants will not spend as much time there since it is not near any of the resources needed for graduate study. Hence, the instructor student interaction will be severely limited which defeats the purpose of graduate assistant offices.

Although we value research

and all that it provides, we feel that the full effect of the decision was not considered. For instance, though only 13 TA's are being moved, their responsibilities include 25 lab sections and 5 lecture sections. The enrollment for the lab sections is more than 250 and the lectures account for another 150 students. Some overlap is inevitable, but the totals still represent a significant portion of the undergraduate engineering population (50% of ECE undergraduates).

We have proposed solutions to alleviate the situation, but have received no official response. In conclusion, we would hope that in the future, administrators will remember that the purpose of Clemson University is to serve its students.

Tom Brown  
Doug Ferrell  
Cindy Bagwell

### Where's Reggie?

According to the 1990 Clemson Football Media Guide, we have a senior tailback who was listed as the Tigers' number two tailback at the end of spring drills (despite a shoulder injury.) He carried the ball 36 times to gain 140 yards, the sixth highest total on the team (in spite of the fact that he only played in six games). Also, his 40 yard dash time leads the 1990 Tiger running backs.

Well, I only have one

question, "Why wasn't Reggie Lawrence playing on Saturday?" In an interview that Coach Hatfield did with the state paper he stated that he used third stringers in the

### letters

game. He also stated that these third stringers only knew two or three plays. I want to know why this senior with obvious talent didn't even get in the game for one play!

I was at that slaughtering on Saturday in the sweltering heat and in the tailback position we went from Rodney Blunt, to Derrick Witherspoon, to Larry Ryans, to Ronald Williams. And as I glanced across the sideline I saw senior Reggie Lawrence standing there the entire game.

It is evident that Lawrence has talent, otherwise he wouldn't have been on the team for four years. One would assume that Hatfield has a personal problem with Lawrence. My goodness he could have at least put Lawrence in the game out of respect since he is a veteran player. After all, we massacred Long Beach State 59-0. Surely Hatfield knew that they weren't going to make a comeback or else he wouldn't have played almost everyone who dressed out.

Basically what I want to know is that since we do have a very talented senior tailback, "Is he going to see any playing time?" If not,

why did Clemson waste a full four year scholarship on him. Not to mention that he was groomed in the shadows of two of our best tailbacks, Terry Allen and Joe Henderson. So, why are we wasting good talent?

In closing, I would like to state that I hope we aren't jeopardizing a potentially outstanding player because of problems not related to his performance. If so, there should be a lot of revamping done on Hatfield's part.

A Bewildered Fan

### A Tenant Has Rights Too!

While I am sure you students who rent apartments are aware of the landlord's rights as spelled out in the lease, I feel it is my duty to inform you of your rights as a tenant.

If you call and call and they won't come fix it, do as AT&T asks and "put it in writing." That is, send a certified letter to your landlord stating what needs to be fixed. With your copy and a signed receipt, you have proof of your efforts to get results and the time it takes to get results. A landlord will be most likely to respond quicker to a letter than another phone call.

In order to ensure that you get all of your security deposit that is due to you upon moving out, be sure all damages are reported to the landlord upon moving in. Make a

list of all damages and keep a copy for yourself. Make sure and have the landlord sign and date both copies. No matter how insignificant some damages may seem to be, write it on the list because you will be surprised how much it may cost you upon moving out.

Does your apartment have smoke alarms in all bedrooms and grounded electrical outlets near sinks? Do you have access to a fire extinguisher? If the answer is no to any of these questions, you have a fire code violation. If you can't get your landlord to supply these safeguards, call the Clemson Fire Inspector; he can get results.

Because of the high demand of housing in Clemson, many of you are paying cord prices for ratholes, but you can demand these be working and safe ratholes. After all, you are definitely paying for it.

Melanie Kay

### Letter's Policy

Please send letters and comments to the attention of the editorial editor. The Tiger Box 2097, or bring them by the offices at suite 906 of University Union. Letters should be typed and received no later than 1 p.m. Wednesday prior to publication. The Tiger reserves the right to edit submissions. The editor in chief reserves the right to determine which letters and commentaries will be published



dehydrated from the intense heat. Other reasons to search for a better method of production is to minimize the leakage of the seams caused by the needle puncturing holes in the fabric creating the possibility of deadly gas seeping through the suit, he said. Although the possibility for this happening, Hill said it's not a big factor because the suit is already air permeable, meaning that the suit breathes and is not air tight.

The suit is made up of a hood, jacket, trousers, gloves and shoe covers that snap together or overlap with another section of the uniform.

The suit protects the soldier because the activated charcoal absorbs the poison in the air. For this reason the suit can only be used for a few hours, Hill added. Even if the suit is not exposed to gas it must still be disposed off after a few hours.

The suit has never been used in

any practical application other than laboratory tests but it has been proven effective.

The suit is also equipped with a pocket to hold a vial of Atrazine, a drug that the soldier can inject himself with to slow the effects of the gas long enough for him to get to a doctor for treatment.

A second "unofficial" project to redesign the manufacturing process of the CPU.

Hill said the Army has not provided a grant to research this but because "we have created the design characteristics of the garment that we think are appropriate for this kind of garment."

Staff members from the research center will be traveling to the Army Research and Development Center in Massachusetts on Sept. 19 to display five new designs of the CPU suit. One of the new designs will separate the suit into two parts, the shell and the charcoal liner, Hill said.

## Thurmond Institute to sponsor sales tax debate

The Strom Thurmond Institute at Clemson University and the Clemson League of Women Voters will co-sponsor a debate on the proposed local option sales tax Tuesday, Sept. 11, at 7:30 p.m. in the Institute auditorium. The program is open to the public at no charge.

Howard Duvall, a representative of the South Carolina Municipal Association, will speak in favor of the tax, while state Sen. Alex Macaulay, who opposes the tax, will speak against the proposed legislation. A public question and answer session will follow the de-

bate, and printed descriptive information about the tax will be available.

"Since South Carolina voters will find this issue on the ballot this fall, we wanted to provide a public forum for discussion of the proposed tax and its implications," said Clemson Alumni Professor of Economics Holley Ulbrich, a Senior Fellow of the Strom Thurmond Institute. "We are looking forward to a lively session and hope to provide voters with the background they need to cast their ballots fully informed about the tax."

## Robotics benefit from biology background

by Mike Schaper  
senior writer

Professor Frederick Sias has been with the University for the last 14 years. He teaches several classes in engineering including one in robotics.

Sias has a very extensive background in electrical engineering and many related fields. He received his Bachelor degree from the University of Florida in electrical engineering.

After graduating from the University of Florida, he then became interested in biomedical technology and worked for John Hopkins University in the biophysics department.

After working at John Hopkins University, he attended the University of Mississippi Medical School and received his degree in Physiology.

He then became interested in computer applications as he continued with his medical research. He worked at Georgia Tech. for a "number of years" with his medical research.

"An area that might benefit from both from my biological background and electrical engineering background was robotics," Sias said of his current

### professor profile

interest in robotics.

When asked how long he has been interested in robotics, Sias said "I would say that I have been



Frederick Sias

doing some aspect of robotics of it for eight or more years.

Sias enjoys working with robotics because of the close ties it has with his background. He enjoys the senior class in robotics that he teaches. The class is broken up into groups which are each required to build robotic model cars which must be able to meet with certain specifications that he requires.

Sias' classroom has several ro-

botic cars that were left over from previous classes. The robotic model cars use to be toy cars for children to ride in, but they have the seat taken out, and are filled with circuit boards and other electronic devices to operate the robotics of the cars.

The cars each have sensors on them so that they will not run into the walls or people. If the sensor detects a wall then the car will stop or turn around. If the sensor detects a person, it then waits for the person to move out of the way, and then continues on with its original path. The cars are able to distinguish a permanent structure from a person by checking the object from movement.

The cars can either be programmed by using a PC or by having the data downloaded into the memory board of the robot.

Sias doesn't believe that robots will become a household item anytime in the near future because of the tremendous cost. He believes that they will first be used in homes to assist the handicapped.

He points out that robots are now being used in hazardous conditions sights to dispose of toxic chemicals and to dispose of bombs that are very dangerous for people to dispose of safely.

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# Language and International Trade curriculum restructured

Linda Binkley  
staff writer

Due to a recent suggestion, the Language and International Trade Program has altered the structure of the L&IT curriculum.

The previously named "Global Marketing" option has given way to an "International Trade" option and will require significantly more financial and mathematical science classes.

The remaining options underwent minor changes by the reduction of the number of marketing classes required.

Richard Thompson, Assistant Dean of Commerce and Industry, recommended the course changes for the L&IT curriculum. Through his experience, Thompson found that International Business graduates with a strong background in the financial and legal component of business were more likely to be accepted into and prepared for top Grad. programs.

"I agree 100%," said Jose Suarez, who taught at the University of South Carolina's Master of International Business Studies program before assuming his position as program director at Clemson University. Suarez implemented the necessary changes in the L&IT course requirements for the 1990 incoming class and transfer students. "These are the type of classes top Grad. programs look for, along with a good GMAT score," Suarez said he expects that over the next decade 30 to 40 percent of L&IT graduates will pursue graduate study.

Students currently following the course requirements for L&IT need not change into the new program

but do have the option of doing so. Suarez urges these students to "keep in mind whether or not it (switching into the new option) will delay their graduation significantly."

The newly introduced course requirement includes classes such as Acct. 203 or 201& 202, Law 322-Legal Environment of Business, Mthsc. sequences 102 & 207(preferred), Finance 306-Corporation Finance and Mgt. 424-International Transport and Logistics.

Kristin Signom, a Junior majoring in Spanish/Mkt L&IT, thinks the changes are "positive." "For the people who are just starting, it would make going to Grad. school easier," Ms. Signom would not switch to the new major, however. "I'd just like to get my degree and get out there. In addition, Ms. Signom is "not really into the math."

Laura Gabrels, a German/Mkt. L&IT senior, thinks L&IT majors should "be prepared for the business world as much as business majors." She believes the language and cultural skills are necessary but will develop upon exposure to the country and business skills should be emphasized in college.

L&IT is essentially a double major in foreign language and international commerce. Students choose one language option from French, German, Spanish and in the upcoming years, Japanese.

Also, students decide on a professional option from International Trade, Agriculture, Forest Products, Textiles and Tourism. The language and business aspects are equal in importance. "The students in Language and international Trade are in a true interdisciplinary program," Suarez said. "They are not just 'good

at math' or 'good at languages.' These students combine an interest in technical fields with an interest in the humanities in an integrated program unlike any other major on campus."

Suarez stresses travelling abroad to utilize both the language skills and the career options that the students choose.

This summer, students travelled to Germany, France, Costa Rica and other countries for summer jobs and to study. Suarez said the L&IT program enhances the relationship between the University and international companies. "One of our priorities," he said, "is to show the international business community that Clemson University is preparing men and women for the global marketplace of the future."

Suarez believes the changes made in the curriculum will give students an edge in their career. "Right now we are focusing on job placement," Suarez said. "Six months after graduation, we have a 70 percent placement rate; we want to improve that. We want to add Japanese, find more internships for students and strengthen our ties with international corporations."

## Four million people missing from census, threaten to sue

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WASHINGTON — Four million people appear to be missing — from early 1990 Census results, angering cities and states. Some are threatening lawsuits — even Montana.

Preliminary results — out this week — put the U.S. population at 245,837,683. Yet just a few months before the preliminary headcount figures were released, the Census Bureau had estimated the 1990 population to be 250 million.

"We've talked to a lot of areas about various options," reports David Goldin, attorney for New York City. "Several of them are considering their own lawsuits. A lot are in a state of shock."

New York City, Los Angeles and 22 other plaintiffs are locked in a 2-year-old suit against the Census Bureau to force an adjustment to compensate for people missed.

Elsewhere:

— Washington, D.C.: "We're going to join that suit," says Kay

Hixson, the city's census coordinator. "If it's necessary, we'll initiate our own suit."

— Detroit: "If we can (join the New York lawsuit), we will, because we think it's the only realistic solution to an ongoing problem," says Juliette Okotie-Eboh, city research chief.

— Montana: It stands to lose one of its two congressional seats, because reapportionment is based on population. "That's disenfranchising half the state," says Montana Attorney General Marc Racicot, who's "exploring" a legal challenge.

The Commerce Department — the Census parent agency — is to decide in 1991 whether to adjust.

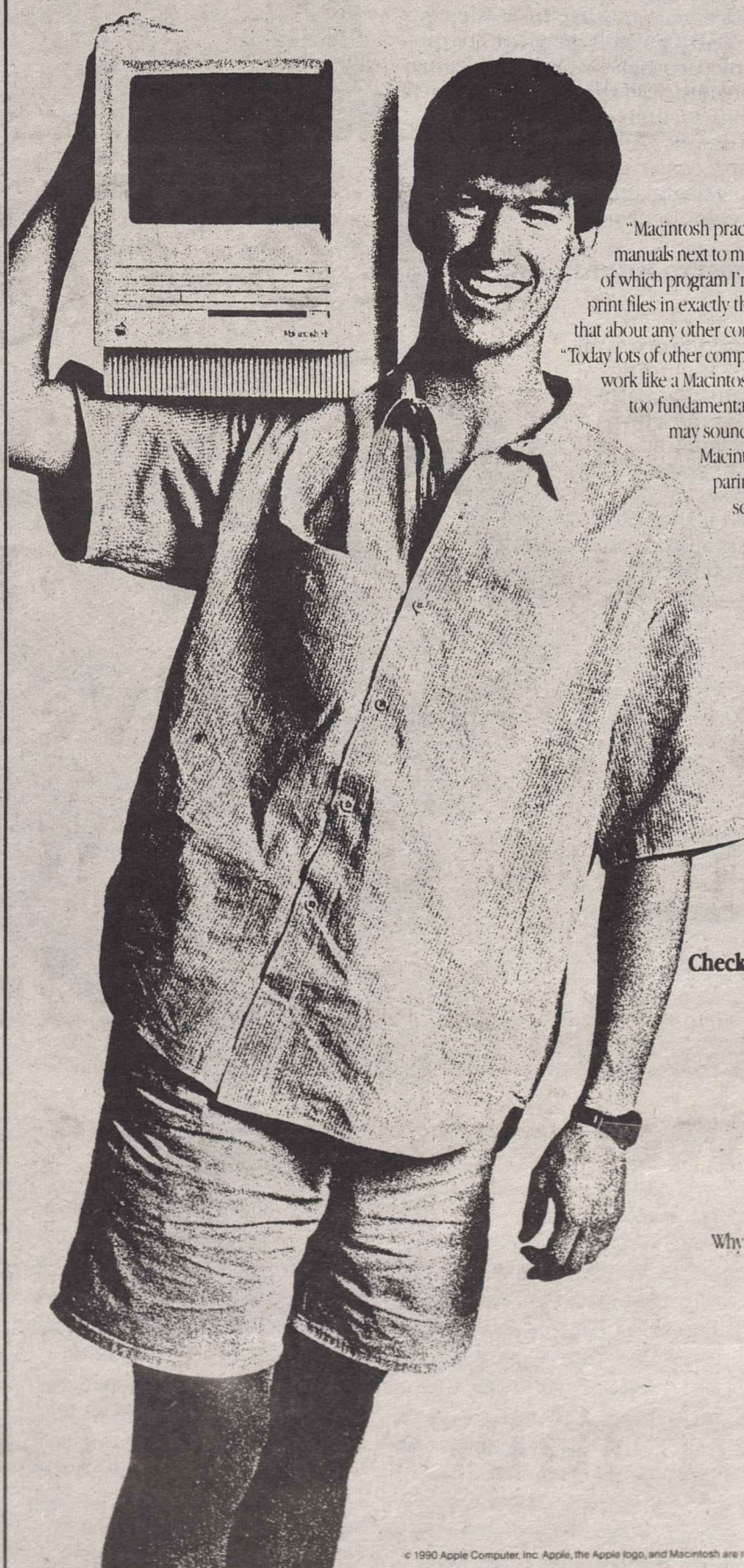
The Census Bureau is no stranger to lawsuits. The 1980 Census triggered 52 suits. All were either decided in the bureau's favor, or dismissed.

Despite release of preliminary numbers, the 1990 headcount continues.

Municipalities have three weeks to review the counts for possible errors. The bureau will recount areas where errors were found.

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Tim Moses  
Computer Science  
Vanderbilt University



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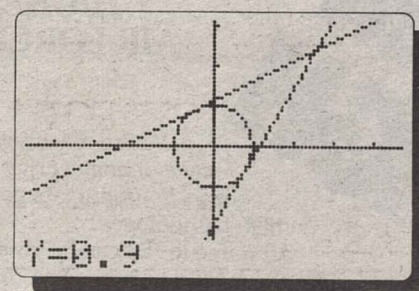
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## New system improves oxygenation of ponds

A new aquaculture pond system at Clemson University may promote more algal growth and produce enough oxygen to support 10 times the amount of fish as in a typical pond.

"We are investigating an alternate aquaculture system that would be economically efficient and environmentally responsible," says agricultural engineer David Brune. "By using natural biological processes to make photosynthesis more efficient and promote algal growth, this system would save electricity, land and water."

Today's intensive aquaculture systems depend on water flow or mechanical aeration to maintain high density. With the new system, such dependence would be reduced. "Utilizing algal photosynthesis more efficiently would allow us to reuse water and reduce the need for energy intensive mechanical aeration," he says.

Fish production in still water pond culture is limited by daily oxygen fluctuations. A typical catfish or shrimp pond has a high concentration of oxygen during the daylight hours because of the high rate of photosynthesis conducted by the algae.

At night and during the early morning, the algae, fish, and pond sediments are respiring and the oxygen concentration is low. Because of these restrictions, the oxygen in most still water ponds can support only 3,500 pounds of catfish per acre or 1,000 of saltwater shrimp per acre.

Brune has devised a pond system that uses a cement wall to partition off a smaller portion where fish are kept. The two areas are connected by hydraulic pumps which control the rate at which the water flows from one side to the other.



CU newsphoto

**Clemson agricultural engineer Dave Brune and graduate student Caye Drapeho study samples drawn from the aquaculture pond system that promotes algal growth.**

The fish, grown in high density cages, are in the smaller portion of the pond while a paddlewheel mixer moves the water on the larger portion of the pond in a serpentine path at a low velocity. The entire water column gets mixed which promotes efficient algal growth that increases oxygen production. Water is pumped to the fish cage only as needed when the oxygen supply gets low, Brune says.

A "net" oxygen production is obtained by harvesting algae with filter feeding fish, and this provides the key to the system's success. "In typical pond fish culture, algal photosynthesis doesn't produce a net oxygen addition to the pond because for every unit of oxygen produced a unit of oxygen demand is added to the pond as microscopic algae bodies," says Brune.

By growing algae at a high rate and harvesting it with the fish, it is

possible to produce a net increase in the oxygen supply to the pond and increase the pond's ability to support more fish, he adds.

"A typical pond doesn't use the water volume very well," says Brune. "The pond has to act as a waste treatment facility for the fish, the place for air exchange and for photosynthesis, but all of it is under managed."

Brune and a graduate student Caye Drapeho are experimenting with the new system to see how quickly and how efficiently it promotes-photosynthesis. "Once we've tried to optimize photosynthesis, we will introduce fish into the culture system," he says. "We hope to have a working design commercially available to aquaculturists in three years."

Funding for the project is provided by the S.C. Agricultural Experiment Station.

## New canteen construction delayed until next year

by Susan Biggers  
assistant news editor

Completion of the new canteen, to be located between Freeman and Riggs Halls, is not expected until next August, according to Jeffrey Hall food services director.

Construction had hoped to be completed by this August but the "Commission on higher education put a kink in that," said Hall.

The project was approved in May. The paper work though got tied up in the various channels it had to pass through, he said.

"The paper work is getting done now and the project is moving," Assistant Vice-president of Business Services Paul Storey said. "There has never been an approval problem. There's just a whole lot to get together before you can get these things through the process," he said.

Construction is expected to begin next year with completion of the facility to be next August.

The new canteen will be similar to the one located in Johnstone sharing concepts such as the pizza and sandwich areas but will also have several different ones. Outside, picnic tables will seat 64 while inside the seating capacity will be 80, according to Hall.

The canteen in Johnstone presently has a seating capacity of 176.

One of the reasons for the construction of a second canteen is because "...the canteen (in Johnstone) is beyond capacity. We're serving 4,000 people a day. That means we're turning seats over 23 times a day. That's a lot for a small place," Hall said.

Storey added that a second reason is to provide another cash outlet on campus. "We don't have a problem with capacity with our board cafeterias to the extent that we do with our cash outlets."

"It'll be real helpful for people in between classes who can just go get a coke or something and go back to class," said Hall.

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- 3) Return completed application to the Student Records Office, 104 Sikes.

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## Environmentalist climbs down from tree

by Mike Schaper  
senior writer

Hunter Hastings Sams, a Long Creek man came down Monday from the tree that he had been staying in since last Wednesday.

Sams, who identified himself as "Forest Green" while he was lodged in the tree in the Sumter National Forest.

His true identity was not known until Monday when forest officers arrested him as he climbed down from the tree from where he had been perched for the last five days.

"He was taken into custody immediately after he climbed down from the tree" said John Cathey of the U.S. Forest Services.

He was staying in the tree to bring attention to the fact that the logging operation that was taking place in Long Creek would cause erosion and damage the Chattooga with siltation. It would also eliminate acres of beautiful public forest Sams said to reporters listening to him at the bottom

of the tree.

Sams, 24 years-old, is a graduate of Duke University. He received his degree in philosophy in 1988 from Duke.

He has been working as a white water rafting guide for a Long Creek business for the last six summers.

Sams was charged with interfering with a federal officer and planning a impediment, Cathey said.

He appeared before a U.S. Magistrate on Tuesday of this week. He was detained in the Pickens County jail until his hearing.

He faces a maximum fine of \$500 and six months in jail for each charge brought against him, Cathey said.

Although construction of the logging road was temporarily delayed due to Sams, construction workers started back on the project as soon as he came down from tree and was taken into custody by the authorities.

## BUSTS, from page one

she said. "We want to educate you (students) toward drinking."

If a student were to continually refuse notification letters sent to a student requiring him or her to attend the alcohol education class, he or she could face being suspended from the University, Jacks said.

The procedure a student will follow begins in the Office of Student Development. Director Joy Smith said that her office will look at each case on an individual basis before rendering a decision as to whether or not a student needs to go through the program. "It doesn't mean we're going to take any action — just to look at it," she said.

In the present situation, Smith said "the property of Clemson University wasn't involved and the mission of Clemson wasn't involved." She added that her office

generally get involved in incidents on a bigger scale such as fights.

Just one week after the ABC saturated the Clemson campus, the University of South Carolina (USC) experienced a similar situation.

A weekend raid netted 130 underage drinkers at the entrance to USC's Williams-Brice Stadium.

The ABC has committed to sending a list of names of students who were arrested for possible disciplinary action, Dorton said.

Here at Clemson, Smith said "our police and other local law enforcement agencies have an informal agreement that if a Clemson University student is arrested or transported...they would tell our police department."

As of Monday Smith or Jacks had received a list of names from the ABC.

## Soldiers adapting to Middle East heat

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WASHINGTON — Though some U.S. soldiers sent to Saudi Arabia have suffered heat stress, members of the military force apparently are adapting to the desert, military officials say.

In the past 2 1-2 weeks, only 15 to 20 soldiers participating in Operation Desert Shield have been hospitalized for heat-related problems, including heat exhaustion and dehydration, said Air Force Lt. Col. Terence Hassler, an orthopedic surgeon and chief of hospital services for the First Tactical Fighter Wing's Air Transportable Hospital.

That unit is the only field hospital available so far for the estimated 20,000 U.S. troops on the ground in Saudi Arabia. Hassler said no soldiers have been evacuated from the region for heat-related problems.

The human body takes 10 days to two weeks to adapt to the 100-plus temperatures. Because many soldiers have been in the Saudi desert for as long as three weeks, military officials believe they have conquered the heat.

"For the number of people we

have in Saudi Arabia," Hassler said, "we are seeing very, very few heat problems."

Initially, "A lot of our young, gung-ho troops ... kind of overdid it," Hassler said. "In the last couple of weeks, as people have gotten acclimated to the heat and humidity, we've seen less and less of it."

Medical researchers, however, are concerned that soldiers may be at risk from long-term exposure to the desert heat.

"The major problem ... over there, and probably a real concern I would have, is they're going to be chronically dehydrated," said Kent Pandolf, who studies the effects of heat on the body at the Army Research Institute of Environmental Medicine in Natick, Mass.

Drinking water merely to quench thirst is not enough to replenish fluids lost through sweating, which can amount to more than 2 1-2 quarts an hour in desert temperatures, medical experts say.

"Our guess is within a period of time, maybe a month, these gents could be 2 percent and 3 percent dehydrated, which is fairly significant," Pandolf said.

When the body loses that much

fluid, heart rate and body temperature rise, cutting the margin of safety nearly in half for heat exhaustion and potentially fatal heat stroke.

Soldiers who already are slightly dehydrated could easily become 5 percent to 6 percent dehydrated after strenuous field activity, Pandolf said. At 7 percent dehydration, soldiers could have irregular heart rhythms that could lead to serious health problems, he said.

Troops are told to drink 1 quart of water an hour, which should prevent long-term dehydration, Hassler said. Soldiers drink locally bottled water and municipal sources deemed safe.

Pandolf also expressed concern about heat rash, associated with profuse sweating and wearing dirty clothes. The rash plugs sweat glands, inhibiting the body's ability to perspire freely and cool itself.

A heat rash over 20 percent to 50 percent of the body will reduce work performance by 30 percent, Army laboratory tests have found.

But heat rash has not been a serious problem for soldiers yet, Hassler said. "We give them salve and they go out the door and we never see them again."

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# Jobs proving deadly

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WASHINGTON — People are more likely to die from a disease acquired through their jobs than from any other preventable cause of death, a report suggests.

Using federal statistics, the non-profit National Safe Workplace Institute estimates 71,428 people died from an occupational illness in 1987 — 1.5 times more than deaths from car accidents.

"This should stimulate people to think about occupational disease, which is the most neglected public health problem in the U.S. today," says study co-director Dr. Stephen Hessel, chief of occupational medicine, University of Chicago.

Occupational illness can occur from exposure to:

— Toxic chemicals. About 10 percent of cancer deaths are linked to job-related exposures. Up to 5 percent of birth defects are due to exposures in parents.

— Indoor air pollution. Overall, 2 percent to 4 percent of lung diseases are job-related and about 15 percent of adult asthma is job-related. Cost to employers in lost productivity alone is \$60 billion.

— Stress. As many as 1 million workers are home ill on any given day due to job-stress and stress-related illness.

— Repetitive tasks, such as assembly-line work and video display terminal use. Repetitive motion disorders currently account for one-third of all job-related illness.

Joseph Kinney, director of the Institute, says many job-related deaths could be prevented if the Occupational Safety and Health Administration applied the same

strict standards to the workplace as the Environmental Protection Agency does to the outdoors.

"It's outrageous, for example, that it is permissible for workers to be exposed to levels of sulphur dioxide in the air that are 62 times that which is considered healthy for non-workers," says Kinney.

Hessel says that when people become sick from exposures at work, doctors are ill-prepared to recognize their symptoms as job-related. Only about half of medical schools require a course in occupational illness and few doctors are interested. Of the 15,646 medical school graduates in 1989, only 200 will specialize in occupational medicine.

"Because occupational disease has long latency periods and mimics other illnesses, most who suffer from it do not even know they contracted their disease in the workplace," says Kinney.

"The victims of occupational disease are left to die quiet deaths, invisible to the public. Because its victims are workers, who often lack power in society, this neglect goes unanswered," Kinney says.

The report calls on Congress to strengthen workplace standards and on medical schools to increase training.



David Chamberlain/editor in chief

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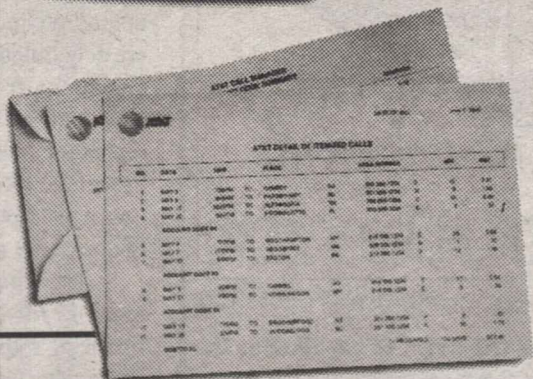
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# Business

For Clemson student

## Small business ownership presents challenges

by Kevin Taylor  
head photographer

Nearly a year ago, one of Clemson's newest downtown businesses began as an idea, a conception, a dream for a young University student.

Early in the fall of 1989, Scott Ruzycki, a senior computer information systems major, had an interesting idea when he shopped at a greek apparel store at the University of Florida while traveling through his home state.

Ruzycki, the president of the Delta Chi fraternity, realized that Clemson needed an expanded market to cater to the University's greek population. Ruzycki had already discussed many entrepreneurial possibilities for the Clemson area with businessman, friend and fraternity advisor, John Stamey, and relayed the idea to him. Stamey saw potential in such a business as well as in Ruzycki.

Stamey, a seven year resident of Clemson and a former computer science instructor at the University, manages operations at Last Chance Music and Audio in downtown Clemson.

Following this conversation with Stamey, Ruzycki began to research his idea and his future. After some time in the library, he felt as if he would not be able to collect enough capital for the merchandise and equipment that he would need to open such a business. Ruzycki, along with the advice and help of Stamey, accessed the situation and considered some other possibilities.

One of those possibilities was screen printing, which was originally intended to be a division of the business. Stamey realized that the two local screen printers were not handling all of the business that the University and the community was demanding. Many

of the local organizations were taking their business out of town.

With this new idea in mind there was still a risk and the money was not available. However, his studies and school activities demanded his attention during the spring semester, he said, but the dream of owning his own business in downtown Clemson was always there.

As summer arrived, Ruzycki attended both summer school secessions and worked as a Clemson Ambassador and in the Office of Student Development. During the summer, Stamey saw a "window of opportunity open" and contacted Ruzycki with the details and his assessment of the situation. Ruzycki studied the situation and saw the great possibilities for profit and knew that this was his chance.

But what makes a 22 year old, fifth year senior, qualified to own 50 percent of screen printing and graphics business? Ruzycki said he is not sure either. However, Ruzycki said he possesses a natural business sense, is a natural salesman and has the desire to do what has to be done to make a business successful.

Ruzycki said his experiences in retail sales, fraternity leadership, as well as leadership in other organizations as one of the keys to his present success. Ruzycki believes that the many working and personal contacts he has made in the University through many student organizations combined with the community contacts that John has acquired will lead to the future success. In addition, he says his personal experiences and relationships within the University have also given him insight to the needs of the University and the community.

By July, the plans were almost complete



Kevin Taylor/head photographer

Scott Ruzycki (left) fulfilled his dream of opening his own business with his recently opened screen printing business located in downtown Clemson. (Top) Scott works on some of his company's screen printing equipment.

and the loan applications were filed.

Today Ruzycki and Stamey are 50/50 partners in what is now University Specialties located in Downtown Clemson. University Specialties presently employs one artist and one screen printer in addition to Ruzycki and Stamey who also do a lot of screen printing.

Current plans are to expand the staff and consequently increase the amount of business they are able to take.

In two weeks of operation, three major jobs have been completed and several more are in the works. According to Ruzycki, University Specialties is "still at the early stages of operations...but as our business is

growing, we want to expand our staff and services."

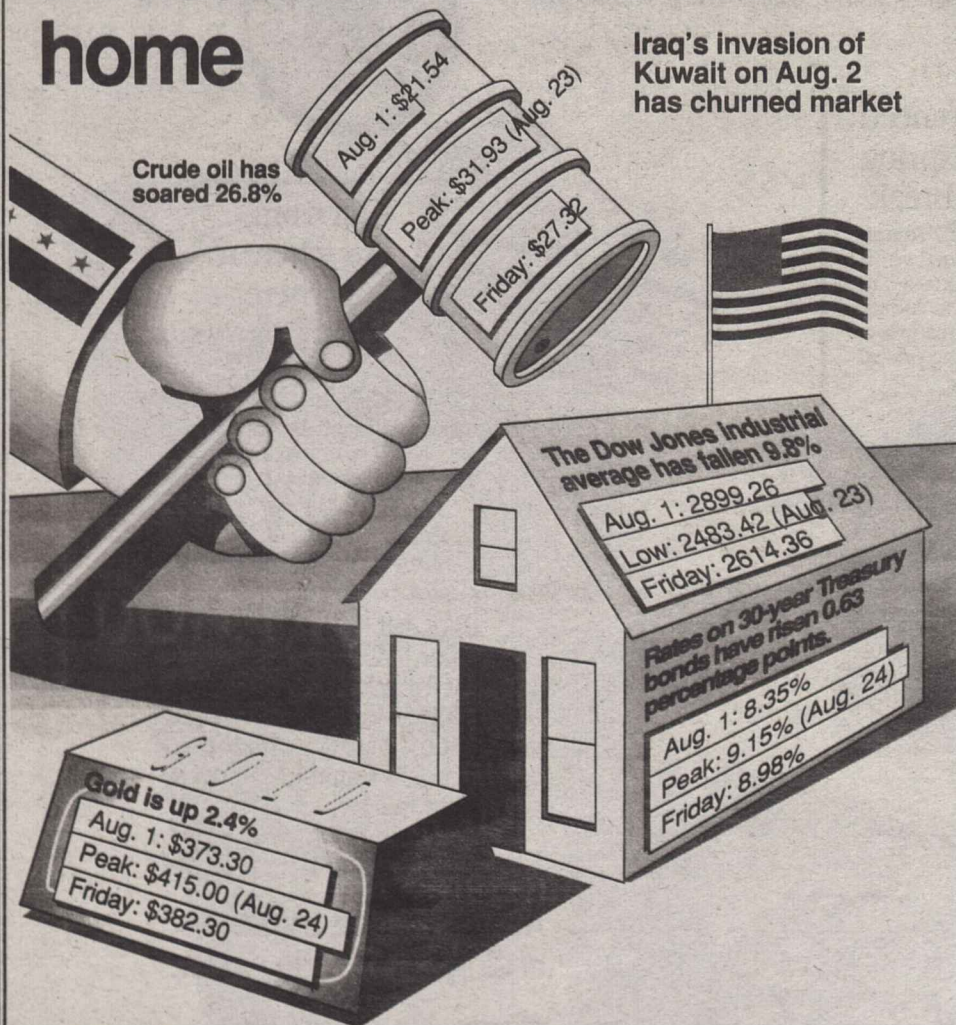
He hopes that such expansions will cause increased production and continued quality output for University Specialties. As with most small businesses the risk is ever present.

Ruzycki said that "if the idea, the concept, if you feel good about it, it's going to come down to risk. But, you have to believe in yourself and be able to afford that risk. If you can afford that risk, go with it. That was my rule."

If the venture is successful, Ruzycki plans to stay in the Clemson area to run his business and possibly attend graduate school after graduating in May.

## Business facts

### Mideast tensions hit home



Source: USA TODAY research

Bob Laird, Gannett News Service

While the conditions in the Middle East have effected the price of gasoline at the pump, it has also had effects on other areas of the American economy as well as the world economy.

## Postal rate increase looms in future

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WASHINGTON — Consumer and business groups are cautiously optimistic about their chances of heading off part of the \$6.158 billion rate increase the U.S. Postal Service wants to put into effect by February.

The proposal calls for increasing the cost of mailing a first-class letter from 25 cents to 30 cents and a post card from 15 cents to 20 cents. Other classes of mail are slated for varying increases, with the largest mailers getting larger discounts for pre-sorting and bar-coding mail.

The Postal Service estimates the hike would cost the average person \$10 a year more in stamps, but the U.S. Chamber of Commerce estimates the total cost at \$88 per household because it includes related price increases that would be passed on to consumers by magazines, mail-order houses and other businessmailers.

A monthlong series of public hearings by the five-member Postal Rate Commission begins Wednesday. Seventy-eight witnesses are scheduled to testify on behalf of groups that range from major mailers such as the National Newspaper Association, which represents weekly newspapers, to United Parcel Service of America, a competitor for package delivery and overnight express mail, to consumer advocate Ralph Nader.

The Postal Service presented its testimony in July, but already the urgency of its financial request has eroded somewhat as Postmaster General Anthony Frank last week lowered his estimate of this fiscal year's operating deficit from \$1.6 billion to \$1 bil-

lion. The Postal Service registered a \$60 million surplus for the fiscal year that ended last Sept. 30.

An even smaller deficit of \$600 million to \$700 million for the current fiscal year is predicted by Stephen Gold, in-house consumer advocate at the independent Postal Rate Commission.

Gold said last week that his estimate is based on the monthly Postal Service financial reports he has access to.

Gold's office has proposed a 27-cent stamp for the courtesy envelopes consumers use to pay their monthly bills if those envelopes have 9 digit ZIP codes and bar coding. These envelopes are less expensive to process because they can be read and sorted by automated equipment.

In addition, Gold has proposed creating a 28-cent envelope that could be read by automated equipment if consumers carefully fill out the address in pre-marked spaces.

However, Gold said he is pessimistic about his chances of gaining approval. "I know the Postal Service is going to oppose anything we do," he said.

Nader, who opposes any rate hike, is trying to introduce a General

Accounting Office report on waste and mismanagement at the Postal Service as evidence in the rate case, but the Postal Service has filed a motion in opposition.

Joseph Belluck, a Nader associate who also has filed a complaint against the increase, said last week there's a 50-50 chance the increase in the first-class stamp will be less than a nickel. He said he predicts the new stamp will cost "around 27 cents."



# Survey says workers economically distressed

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WASHINGTON—More than 40 percent of the U.S. working age population is economically distressed, working at poverty wages, or unemployed, reports the co-author of a new study by the Economic Policy Institute.

This grim conclusion from a Washington-based liberal think tank comes from studying two partly overlapping developments:

— 31.5 percent of the population is working at poverty-level wages.

— 20 percent ranks as economically "distressed."

Two other economists who represent business groups say the study's estimates probably are on the high side. But even they agree the trend is clear: Changes in the economy mean millions of Americans have less stable incomes than they had a decade ago, and many have to work more to support their families.

Lawrence Mishel, an economist who co-authored the Economic Policy Institute report, says the job growth of the past decade has been concentrated in low-wage service professions.

The gap between income groups widened between 1979 and 1988. The top 5 percent of wage earners experienced a 9.6 percent gain in real income, while households in the bottom 60 percent experienced a decline, reports Mishel. The bottom fifth experienced the

biggest drop, a 12.5-percent decline in real income.

As a result, the average member of the high school class of 1987 earned 4 percent less after graduation, taking inflation into account, than his predecessor did in 1979, Mishel concludes.

Mishel says that people who are working at poverty wages, which he defines as \$5.80 an hour or less, aren't necessarily poor because they may hold a second job, work overtime or have a second household member who is also working. They may also receive government aid in the form of food stamps, welfare, unemployment insurance, Social Security or aid to dependent children.

But for a family of four with one wage earner, even an hourly wage of \$5.80 in a full-time position won't reach the poverty threshold of \$12,675-a-year set by the Labor Department. The current federal minimum wage of \$3.80 an hour will increase to \$4.25 on April 1, 1991.

Business groups argue against

a further increase in the minimum wage, but some economists say a further increase would foster higher productivity and capital investment.

As for the "economically distressed" group cited by Mishel, they include:

— The unemployed: 5.5 percent of the work-age population, Americans 16 years of age or older.

— Part-timers seeking full-time work: 4.7 percent

— Holders of temporary positions who are seeking permanent jobs: 3.5 percent

— Workers who have more than one job because of economic hardship: 3 percent

— Self-employed workers seeking other employment: 3 percent

— Discouraged workers no longer actively seek employment: 0.7 percent.

Audrey Freedman, a labor economist at the Conference Board, a business research organization in New York, calls Mishel's conclusion "a little on the high side, but it isn't outrageous."

"I would also put it in the context of the enormous opportunity that the economy provides to Americans," says Freedman. "I just point to the number of immigrants who want to come in."

Freedman agrees the economy has changed over the last decade.

"For all Americans, jobs are much less stable and incomes are much less stable than they were a decade ago. Also, family arrangements are much less stable. In terms of economic circumstances, everyone is at risk. What we have had is a creation of jobs that are unstable. Unstable in the sense that someone with a high school education can't go into a production job and maintain it for the rest of his life — particularly men."

But the increased flexibility of working hours and the growth in part-time employment have benefited many women, particularly those with dependent children, says Freedman. The negative aspect of part-time work is that many such jobs are inherently less stable, she adds.

Pan Yatrakis, senior partner at the Center for Economic Analysis in

Stamford, Conn., points out that laid-off auto workers who once earned \$20 an hour may have taken jobs that pay \$5 an hour, but the positive side is that the national unemployment rate is comparatively low.

"There is a lot of hidden underemployment," says Yatrakis. "I think the way American households have kept their incomes up is by working more, either by working more hours, a second job or by having a spouse working. I don't think we're earning more per hour."

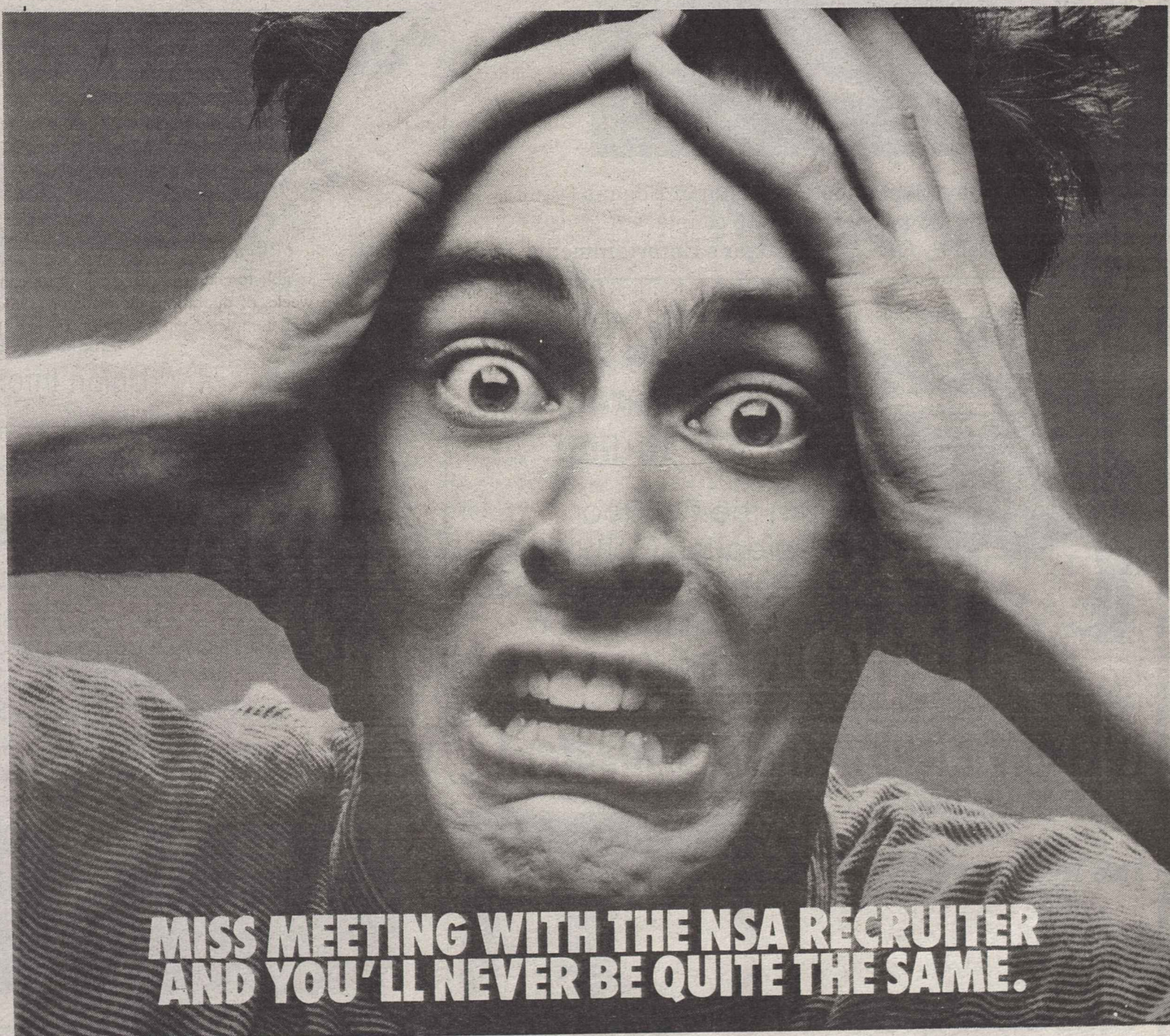
Yatrakis, who is an economic consultant to corporations, government and trade associations, says a higher minimum wage has mixed arguments. "It encourages employers to invest in capital instead of wages," he explains. "But the flip side is that it also encourages unemployment."

(Brian Tumulty writes for Gannett News Service in Washington, D.C.)

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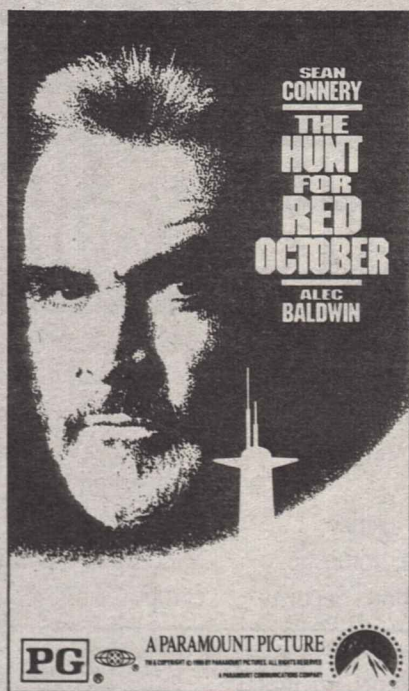
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# Time out

## Talent of rising stars overcomes plot of 'Flatliners'

by Lee Smith  
movie critic

"Flatliners" is a neo-Gothic thriller/horror film that is propelled by unnatural feelings.

As he did with "Lost Boys," director Joel Schumacher places heavy emphasis on visually creating an eerie mood. He accomplishes this by constant use of rain, whether it be a hard downpour or a light drizzle, steam rising from street vents and fog rolling in off a bay. He further develops an unnerving feeling in the movie with scenes that depict the dissection of cadavers and, in one, the act of stitching one's own face. The Gothic environment is enhanced by the design of hospital classrooms that resemble Renaissance cathedrals.

### movie review

Peter Filardi's script about exploring life after death is far from original. The premise is that five outstanding medical students take turns stopping their hearts in order to experience death. They soon realize that when they return from their near-death experiences, they somehow bring back with them a character from their past that they have wronged. The individuals resolve their personal dilemmas by confronting the characters from their pasts. The resolution of the movie comes across more like a Sunday church service on be nice to thy neighbor (or they will come back to get you) than a captivating ending.

The worst part about Filardi's script is that it limits the performance of a talented cast. Kevin Bacon is the maverick who defies hospital/school policies to do what he believes is correct and is expelled from medical school. Bacon gives a solid performance, but it lacks the intensity that is needed to portray his character as the hero.

Kiefer Sutherland is brilliant

as the untrustworthy mastermind of the experiment. His character teeters between being demonic and admirable. Sutherland is also able to manipulate the audience into hating him for his attitude as well as feeling sorry for him because of his vulnerability. Schumacher accentuates Sutherland's performance through the use of light and dark in his camera shots.

Julia Roberts is underused in the movie and appears to be in the film only to add an attractive female to the group of men. Situations in which she could have been more fully utilized, such as in the love triangle between her character and those of Bacon and Sutherland, are never maximized. The viewer realizes there is something is going on between the characters but the conflict is never resolved.

The fact that the characters are not better developed is not the fault of the actors, but rather another flaw in Filardi's script. Schumacher overcomes these plot shortcomings with a visually effective style.



Kiefer Sutherland, Kevin Bacon, Julia Roberts, and Oliver Platt (left to right) star as medical students trying to revive their classmate (William Baldwin) in Columbia Pictures' life-after-death thriller 'Flatliners.' The film is currently playing in theaters in the Clemson area.

## Marlon Brando shines in 'The Freshman'

### Broderick co-stars in legend's first movie in years

by Amy Belew  
staff writer

"The Freshman" is a light comedy that follows a young film student in New York as he discovers that he is in the company of rare animals, warring mafia members, and worst of all, the FBI.

From the opening father-son hunting-scene-with-a-twist until the heroes walk off into the sunset with the "dragon"-in-distress in their arms, "The Freshman" is a thoroughly enjoyable movie. Although some of the gags fall short, an unattractive exotic six-foot lizard steals the show, making this a pleasant escape from reality.

### movie review

Matthew Broderick stars as Clark Kellogg, a freshman at NYU, and in one day he loses his clothes, his money, and almost his sanity. Marlon Brando plays a paternalistic mafia king, Carmine Sabatini, who has a strangely haunting resemblance to... the

Godfather perhaps? Paul Benedict gives a wonderful performance as Arthur Fleeber, Clark's mad film school professor, and Bruno Kirby plays to perfection the part of slimy ripoff artist Victor Ray.

With no money for his text books and no sympathy from his professor, Clark is forced to take a job offer from Ray, the very man who conned him out of his possessions. The job brings Clark into contact with Sabatini, who takes an instant liking to the young man and enfold him in his family's wing. That's when the freshman's troubles really begin.

He finds himself chasing an enormous endangered reptile through a crowded shopping mall, finding out about his unknown engagement to Sabatini's daughter (whom he's only met once), and eluding the FBI in a car chase.

The plot gets rather sticky and a bit confusing. It's full of twists and turns, and you find yourself in Clark's predicament, unable to determine whose side to be on. In the end, he makes the right choice -- even if you don't, and the plot's tangles are eventually unraveled.

Everyone who believes their first days as a college freshman were incredibly confusing and difficult should see "The Freshman" to get a little perspective and a little laugh from this delightful movie.

## Musician Richard Elliot to appear in Edgar's tonight

by Terry E. Manning  
Time-Out editor

Saxophonist Richard Elliot will be performing in Edgar's tonight at 8 p.m. Admission is \$3 for singles and \$5 for couples.

A former member of the famed Tower of Power horn section (he left the group in 1988), Elliot is renowned as a skilled musician with a strong but intimate presence. He has also enjoyed chart success as his LP *Take to the Skies*, climbed as high as number seven on Billboard's contemporary jazz charts.

A self-described "musical prostitute," Elliot consents that he likes to play a wide variety of music types. According to his record company biography, the saxophonist is a player who hopes that "the challenge of finding something new and exciting every time I play never changes. I always want to be trying to take my music up to that next level."



Richard Elliot

## campus happenings

### Edgar's

Sept. 13

Storm Orphans will perform in Edgar's. The time of the show and the admission have not been determined yet

### Holtzendorff YMCA

Sept. 7 and 8

"The Hunt for Red October," starring Sean Connery and Alec Baldwin, 7 and 9:15 p.m. Admission is \$1.75

Sept. 8

"Little Mermaid" at 1:00 matinee. Admission is \$1.00. For children of all ages.

Sept. 9

"Mad Max." Admission is free.

Sept. 13-15

"Total Recall," starring Arnold Schwarzenegger, at 7 and 9:15p.m. Admission is \$1.75



Original members assemble first album in seven years

## Former Time members reunite to produce new LP, 'Pandemonium'

by Terry Manning  
entertainment editor

### album review

The Time is remembered as the cream-of-the-crop of the many funk bands that sprang up in the eighties seeking to seize hold of the crown left unworn when George Clinton and his Parliament/Funkadelic express came grinding to a halt.

Their first two albums, *The Time* and *What Time Is It?* were must-haves for budding funksters. Ardent fans of the Minneapolis sound knew that while Prince was the creator and resident genius of the movement, the Time was the band that aimed for your feet. Their music was extremely danceable and, along with their tightly choreographed stage shows, they appealed to a segment of the black audience that just didn't have time for Prince's flights of creative fancy. Their "Cool," "Get It Up," and "777-9311" are all classics of synthesizer-based funk.

When the Time broke up in late 1984, however, the shock was not as strongly felt as one might imagine. After all, bassist Terry Lewis and keyboardist Jimmy "Jam" Harris had already left the group, taking with them an integral part of the sound that was the Time, and the Ohio-based family group Zapp was doing more than its share

to fill the void the Time left.

Well, they're back. Leader Morris Day, his sideman Jerome Benton, Jam, Lewis, keyboardist Monte Moir, drummer Jellybean Johnson and lead guitarist Jesse Johnson have reunited to produce *Pandemonium*. This one burns, from the percussive slam of the title track to the funky rhythms of the lead-off single, "Jerk Out."

"Chocolate" and "My Summertime Thang" are extended numbers, allowing the band members to, in the former, recall the clever patter that accompanied their best tunes, and in the latter, show off a jazzy side to the funk they're working. But this is no surprise. The Time was known for working a groove; the delight in this album comes from just how hard these fellows rock. R-O-C-K!!!

Everyone knows that inside every funk band is a rock band, and "Blondie" and "Skillet" are first-rate rockers, with Jesse Johnson finally showing just how important a part he plays in the sound of this assemblage. His guitar hasn't sounded so potent, so alive, since the classic solos from "777-9311." His guitar wails and moans and he lays down killer fretwork on the entire album; these two are just spotlights for his virtuosity. Living

Colour's Vernon Reid has little space to place between himself and Johnson as the best R&B/rock guitarists now playing.

"Skillet" features a break where Jimmy Jam weaves a funky organ solo in among the hard rock threads, further substantiating Vernon Reid's claim, when asked about being a black guitarist playing rock instead of "black" music, that rock music is black music. Rock and funk dovetail here in a way that is so seamless and so masterful that it is exhilarating.

The Time even manage to come up with a couple of their trademark ballads, "Donald Trump (Black Version)" and "Sometimes I Get Lonely." The second is a particular treat, following in the emotional vein of the classic "Gigolos Get Lonely Too."

Forget the group of sessionmen who performed on 1984's *Ice Cream Castles*, inexplicably the Time's only platinum album (to this point). This is really the first true Time LP since 1982's *What Time Is It?* the last album to feature the original members, and it sounds as if the members haven't skipped a beat. The vibe is still present and the grooves are still cooking. *Pandemonium* should create exactly that when other so-called funk bands here what the real funk sounds like.

## Environmental concerns finding way into mainstream

By GARY MULLINAX  
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TODAY/Apple College Information Network

You know an issue has caught on with the mainstream if two things happen: McDonald's uses it to sell hamburgers and television puts on shows about it.

Since the hot issue now is the environment, McDonald's has published "McDonald's and the Environment," a pamphlet that insists the fast food chain's nonbiodegradable plastic containers are actually good for the environment and, by the way, we're doing our part to save the rain forest, too.

McDonald's is not the only company to appreciate the public relations value of being "green." Rubbermaid touts its plastic products as recycling containers. Burger King ballyhoos its new grilled chicken sandwich. (The chicken sandwiches at the McDonald's I've been to are still dipped in batter, but I don't believe they have found a way to justify it in a pamphlet.)

TV will join the bandwagon this fall with "E.A.R.T.H. Force" Saturday nights at 9 (EDT) on CBS. An "elite force" of action-

oriented environmentalists battle polluters. Two environmental cartoons also are due: "Captain Planet" on cable's WTBS and the syndicated "Widget."

And look for more shows with this theme. The entertainment industry has set up the Environmental Media Association as a source of information for producers with this in mind. It notes 25 series episodes incorporated environmental issues last season.

Would all this happen if saving the environment — or talking about it — was not good business? Probably not. A recent study indicates that 77 percent of purchases in this nation are influenced by the company's stance on the environment.

The pilot of "Earth Force" is clearly tame enough to keep advertisers in the fold. What might scare them is a show that actually takes a serious stand on the issues, even if it finds viewers. An advertising consultant told Ad Week magazine that "consumers expect more of a commitment from corporations that take an environmental stand." Maybe hiding out will be the safest response after all.

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## Do it TODAY, shutterbug!





## CBS anchor lands scoop of Middle East coverage

By BRIAN DONLON,  
PETER JOHNSON  
and MATT ROUSH  
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work

CBS News anchor Dan Rather landed the coup of the TV wars Wednesday — an interview with Iraqi President Saddam Hussein.

It came after Rather and executive producer Tom Bettag waited 10 hours in their Baghdad hotel. While Rather succeeded, Jesse Jackson didn't. His hoped-for interview with Saddam didn't come about Wednesday.

Rather, notebook in lap, continually pressed Saddam on hard issues: hostages, the rumored possibility of a negotiated withdrawal from Kuwait, the potential to use poison gas. Saddam denied and hedged, often aiming accusations back at Rather, who nimbly dodged being drawn into debates.

For his part, Saddam was unflappable, even when such buzzwords like "Hitler" and "bully" and "sick" were floated before him.

Among his points:

— "Kuwait is part of Iraq. We have said this, and the legislative bodies in Iraq have issued a clear decree saying that Kuwait is an Iraqi province."

— Saddam denied that Iraq is holding hostages, even though he has barred Westerners, including Americans, from leaving the country and put them near military targets to deter attack.

— When asked by Rather if he expected a U.S. military strike

against him, Saddam, speaking through an interpreter, said, "We take this into account and we are prepared on the basis of that eventuality." But he later added: "We want the war not to come about, because if it were to erupt ... it will cause harm to the United States, to Iraq and to the world."

The process began Sunday when the CBS News office in Amman, Jordan, got a call urging Rather — who remained in the Mideast after competitors went home — to return to Baghdad. But late Wednesday, they learned the interview was off and Rather decided to nap. Shortly after 10 p.m. Baghdad time, an Iraqi guard came to drive him to the presidential palace. Rather didn't know he had the interview.

When he arrived, he was told Iraqi TV cameras would be used. Rather protested but relented, realizing it was take-it-or-leave-it. The Iraqis also demanded that at least an hour of the 90-minute talk air in full on U.S. television. Later, colleague Lesley Stahl asked the anchor why Saddam chose him. "Proximity and persistence," Rather replied.

Only about four minutes of the interview aired on the "Evening News," but CBS ran an hourlong special at 10 and another at 11:30 EDT, co-anchored by Charles Kuralt and Stahl.

Competitors in the hard-fought TV wars were gracious. Said NBC anchor Tom Brokaw, "Dan hit a grand slam with this one." Paul Friedman, executive producer of ABC's "World News Tonight" said, "He's been there a long time. Good for him."

## Issues look at decades' music

by Terry E. Manning  
Time-Out editor

### magazine review

Rolling Stone has been offering a series of special issues looking back at the music of the decades preceding this one. Up until their look at the seventies, they had been fairly successful.

Their look at the 1950's conveyed the appropriate sense of awe, innocence and of rock and roll being a newborn phenomenon. The issue dealt with the roots of rock as they were based in gospel, jazz and hillbilly country. The era's stars, from Elvis and Buddy Holly to the songwriting team of Lieber and Stoller, are dealt with with the proper adulation; they were, after all the developers of the sound. There is even a photo gallery featuring leisure time photos of Elvis and the Everly Brothers, among others.

The sixties, of course, are painted in shades of psychedelia

and mysticism; nostalgia swells to gigantic proportions in this issue, with irritatingly loving recollections of acid trips and "a sense of everyone wanting to do what was right."

This issue explores the musical and cultural influences of Bob Dylan and the Beatles; the across-the-board appeal of Berry Gordy's Motown (along with a Motown photo gallery); and in addition, a frustratingly shallow look at James Brown's influence on modern music — who is M.C. Hammer but a modern-day Brown, from his packed-stage, tightly choreographed stage performances to his hyper-kinetic dance-and-chant routines?

The issue dedicated to reflections on the seventies seems incredibly tame by comparison to the previous two. They find no creative way to approach the decade's musi-

cal styles; instead, they only approach the more popular groups and let them wax nostalgic. They offer George Clinton the chance to elaborate on funk, but where are Gamble and Huff, the main producers of the Philly sound? Where is Sly Stone's interview? Where's disco?

The seventies are simply glossed over. The way that the music affected and reflected real cultural change takes a back to in-depth exploration along the lines of: "So, did you guys really take as many drugs as we all thought you did?"

The eighties review is still ahead. With that one, the editors and writers of Rolling Stone have a chance to prove wrong all the detractors who claim that the decade had no real impact, musically or socially. I just hope that they get beyond superficial value judgments and look at the music's real quality.

## FEATURE FILMS

### Weekend showings

<b>Anderson Mall</b> 225-1200		
Days of Thunder (PG-13)	Taking Care of Business (R)	Another 48 Hours (R)
	<b>Astro III</b> 654-1670	
Presumed Innocent (R)	The Jungle Book (G)	Flatliners (R)
2, 4:10, 7 & 9:10 p.m.	2, 4 & 7:00 p.m.	2, 4, 7 & 9:00 p.m.
	Exorcist 3 (R) 9 p.m. only	
	<b>Market Place</b> 226-4234	
Presumed Innocent (R)	Mo' Better Blues (R)	Flatliners (R)
2, 4:30, 7 & 9:30 p.m.	2:10, 4:40, 7:10 & 9:40 p.m.	2:15, 4:40, 7:20 & 9:40
Ghost (PG-13)	The Witches (PG)	Pump Up The Volume (R)
2, 4:30, 7:05 & 9:35 p.m.	2, 3:50, 5:25, 7:15 & 9:15 p.m.	9:40 p.m.
Air America (R) 2:10, 4:40 & 7:10 p.m.		
	<b>Village Cinemas</b> 226-9181	
Exorcist 3 (R)	Darkman (R)	Young Guns II (PG-13)
2:30, 4:50, 7:20 & 9:40 p.m.	2:30, 4:40, 7:10 & 9:30 p.m.	2:15, 4:45, 7:10 & 9:30
Men At Work (PG-13) 4:30 & 9:20 p.m.		Problem Child (PG) 2:15 & 7:00 p.m.

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OUTLAND by Berke Breathed



# Slater tastes success in two film roles

By MIKE CIDONI  
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Apple College Information Network

Let's pump up an ego. It would have been enough for Christian Slater to have made teen angst film history once, as he did with co-star Winona Ryder in last year's black comedy cult favorite, "Heathers." But to go the teen-angst route for the second time in so many years, and do it successfully again — now that's something.

And Slater apparently has done it with co-star Samantha Mathis in the new ode to '90s teens, "Pump Up the Volume," one of summer's most talked-about and critically praised films.

"Pump" is the 21-year-old Slater's third film in five months, following appearances in the horror anthology "Tales From the Dark-side: The Movie" and the current "Young Guns II." So, it's understandable that he's sounding rather work-weary.

"It's the trouble with back-to-back movies. You spend so much time talking about them with the press that you get to a point where you don't know what you're saying anymore. You know what I mean? It's like, 'Which movie are you asking about now?'"

"Pump Up the Volume," from "Times Square" director Allan Moyle, follows Mark Hunter (Slater), a teen-age rebel without a cause. Mark gets his hands on a ham radio outfit, starts his own illegal station, takes on the hard-talking persona of "Hard Harry" and sparks a rebellion among his high school classmates.

"I dunno," Mark says while broadcasting as "Harry." "Sex is out; drugs are out; politics are out; spiritualism is out. Everything's on hold. We definitely need something new."

What Mark needs is a bit of "Harry"'s outgoing personality. Out of the studio, Mark's such an introverted nerd that other students don't realize they are sitting next to their favorite radio personality.

"This character had every color I've ever really wanted to play," Slater notes. "The shyness, the quietness to it. And then the wild and craziness to it is really what turned me on to it."

"I really related a lot to the character because when I'm behind closed doors that's when I really do express myself."

Commercial prospects were the main reason he picked up the role of feisty Dave Rudabaugh in "Young Guns II."

"The critics have been great. They're the reasons anybody even saw 'Tucker' or 'Heathers.' But you've got to do a mainstream movie so the rest of the world can view it, not just the critics. Then, when you go and do a small film like 'Pump Up the Volume,' people will go and be a little more interested in seeing it."

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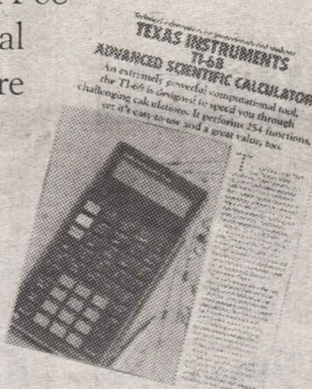
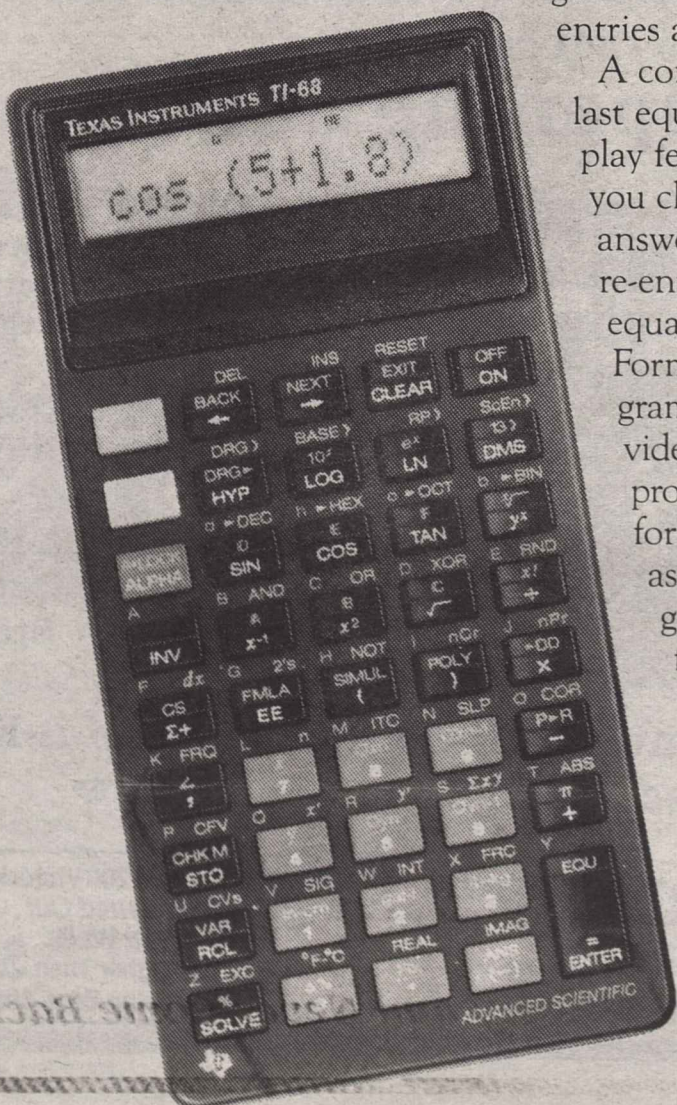
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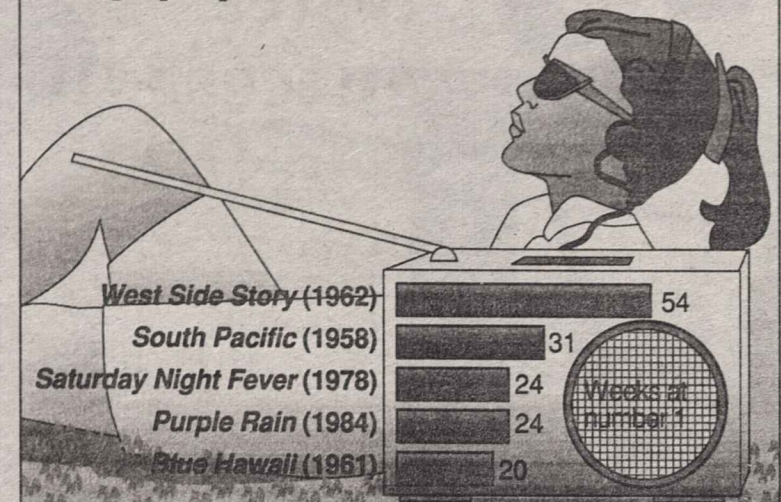


TEXAS INSTRUMENTS



# Infographics

## Top pop soundtrack success



Source: Billboard magazine

Marcy E. Mullins, Gannett News Service

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2-4:30 p.m.

Strom Thurmond Institute Auditorium

sponsored by: CU Special Projects Office

guest speaker(s): W. Mackies Manning and  
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## The 1990-91 television season

	Network	8:00	8:30	9:00	9:30	10:00	10:30
Mon.	ABC	MacGyver		NFL Monday Night Football			
	CBS	Uncle Buck*	Major Dad	Murphy Brown	Designing Women	The Trials of Rosie O'Neill*	
	NBC	Fresh Prince of Bel Air*	Ferris Bueller*	NBC Monday Night Movie			
	FOX	Fox Night at the Movies					
Tues.	ABC	Who's the Boss?	Baby Talk*	Roseanne	Coach	Thirtysomething	
	CBS	Rescue 911		CBS Tuesday Night Movie			
	NBC	Matlock		In the Heat of the Night		Law and Order*	
Wed.	ABC	Wonder Years	Growing Pains	Doogie Howser	Married People*	Cop Rock*	
	CBS	Lenny*	Doctor, Doctor	Jake & the Fat Man		WIOU*	
	NBC	Unsolved Mysteries		Fanelli Boys*	Dear John	Hunter	
Thurs.	ABC	Father Dowling Mysteries		Gabriel's Fire*		Prime Time Live	
	CBS	The Flash*		Sons and Daughters*		Knots Landing	
	NBC	Cosby	Different World	Cheers	Grand	L.A. Law	
Fri.	FOX	The Simpsons	Babes*	Class of Beverly Hills*			
	ABC	Full House	Family Matters	Perfect Strangers/Going Places*		20/20	
	CBS	Evening Shade*	Bagdad Cafe	Over My Dead Body*		Dallas	
	NBC	Quantum Leap		Night Court	Wings	Midnight Caller	
	FOX	America's Most Wanted		D.E.A.*			
Sat.	ABC	The Young Riders		China Beach		Twin Peaks	
	CBS	Family Man*	The Hogans	E.A.R.T.H. Force*		48 Hours	
	NBC	Parenthood*	Working it Out*	Golden Girls	Empty Nest	Carol & Co.	American Dreamer*
	FOX	FOX Video Hour		Cops	American Chronicle		
Sun.	ABC	Funniest Home Videos	America's Funniest People	ABC Sunday Night Movie			
	CBS	Murder, She Wrote		CBS Sunday Night Movie			
	NBC	Lifestories		NBC Sunday Night Movie			
	FOX	In Living Color	Get a Life*	Married with Children	Good Grief*	Against the Law*	

\* Indicates new show Source: ABC, CBS, NBC, FOX

Luisa Calderon Hayes, Gannett News Service

## We Love Our New Pledges!

Lisa Aballo  
Martha Acuna  
Kerri Baldwin  
Kerry Ball  
Lynn Benfield  
Cyre Boggs  
Ashley Borom  
Emily Brem  
Anne Brzonkala  
Candi Bullman  
Jean Chien  
Kim Cockfield  
Holly Dayton  
Tracey Diantonio

Dawn Doggett  
Tiffany Driscoll  
Michele Evans  
Stephanie Fagg  
Kim Finney  
Elise Giattino  
Suzanne Hollowell  
Camille Kushman  
Lisa LaGrasse  
Allen Leland  
Camille Marino  
Katie McKeown  
Christen Mercer

Jennifer Morrow  
Nancy Orfinik  
Jeanne Pearson  
Lisa Rainey  
Elissa Reading  
Maureen Rider  
Jenny Rudman  
Aimee Skelton  
Angie Smith  
Cheryl Stutts  
Kristi Torgler  
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Jennifer Wallace

Sunday, Sept. 9  
Open Mic  
Featuring  
Andrew Dice Clay  
Live in Video  
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654-2059

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Tuesday, Sept. 11  
New Potato  
Caboose  
Classic American  
Sound With A Vital  
New Sound

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Thursday, Sept. 13 Ladies Will Be Locked  
Up With The Hollywood Males 7-10 p.m.  
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DATE: <b>Friday, September 7</b>	TIME: <b>9 am to 4 pm</b>	PLACE: <b>Tent in front of Johnstone Hall</b>
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## Sports

Tigers hope  
Cavs choke  
on hype

## Trailing the Tiger

David  
Thomassports  
editor

One of football's coaching greats once said: "Publicity is like poison. It won't hurt if you don't swallow it."

If this adage holds true to form, Coach Hatfield and Co. better hope Virginia goes back for second helpings.

For the first time in eons, Clemson is not the out-and-out favorite going into its annual match up with the Cavaliers. Even though The Line is holding strong at two-and-a-half in Clemson's favor, many sports writers and football fanatics are picking Virginia to break Clemson's 29-0 winning streak over the Cavaliers.

For the first time, the spotlight is on Virginia to perform. For the first time in a while, Clemson has been upstaged in the pre-game hype. With the attention focused on the Cavaliers, Clemson's players begin to experience that same feeling of playing in a bowl game with perennial powers such as Penn State and Oklahoma, that feeling of desperation. It's that Do-or-Die attitude that has forced the Tigers of the past to rise to the occasion.

Losses from last season seemed to sneak up on the Tigers when they least expected it. Excuses of mental let-downs ran rampant after the Duke and Georgia Tech defeats. But with the excitement of a new coach and a new season, the Tigers should be mentally ready. And with that Do-or-Die sentiment floating in the air, the mental intensity should be at its highest in a while.

The only question is whether or not Coach Hatfield can motivate his talented team enough to win in a foreign stadium against a powerful Cavalier team.

As for the Long Beach State victory, Clemson could have accomplished practically the same thing by scrimaging Daniel High School down the road. Hatfield's real test lies in Charlottesville.

Has Hatfield been able to revive the fun of football that wasn't too prevalent during the first few days he spent here in Tigertown (the city not the bar)?

The win over Coach Allen seemed to put some smiles on the orange faces in Death Valley, but the fun for Hatfield won't last if he fails to return victorious from Virginia.

As one-time Texas Coach Darrell Royal put it, "The only way I know how to keep football fun is to win. There's no laughter in losing."

But how are the Clemson players reacting to the enormous

see TRAIL, page 22

## Tigers crush 49ers, look to Cavs

Hatfield's  
debut proves  
successfulby Rick Brackett  
staff writer

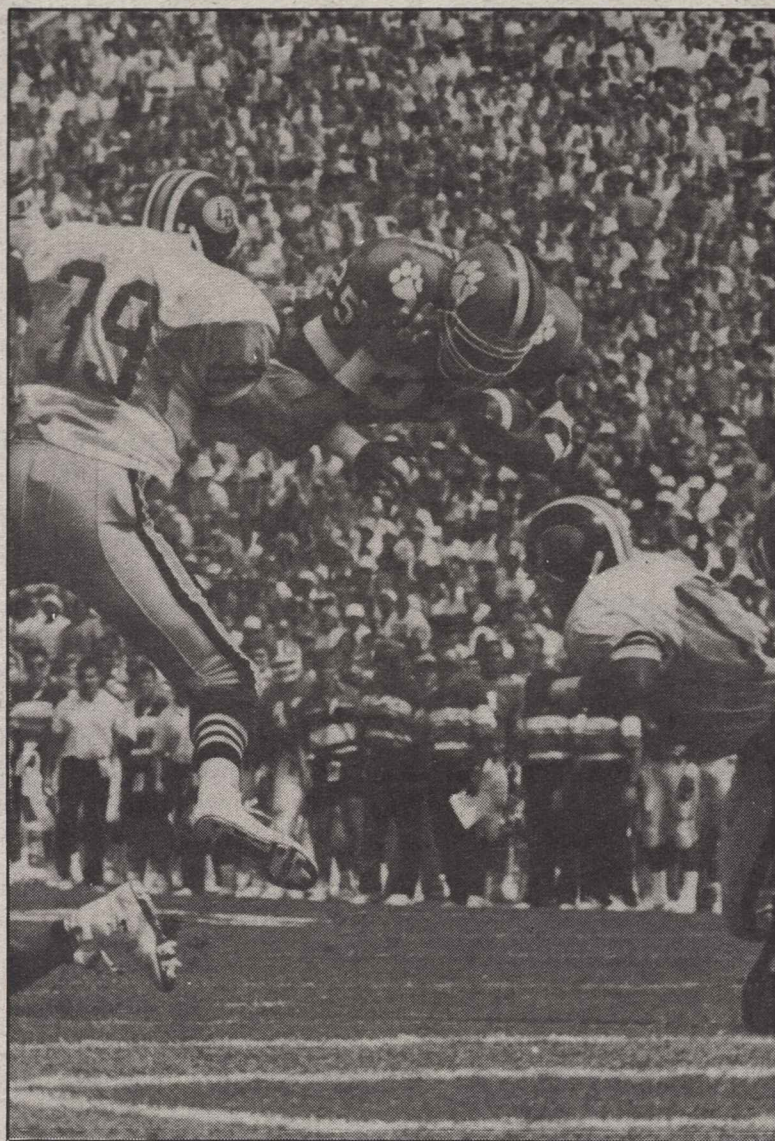
On the second play of Long Beach State's second drive of the game Saturday, quarterback Todd Studer dropped back and fired an eighteen yard first down completion to wide receiver Mark Seay. The Forty-Niners, less than underdogs, had put a whopping thirty four yards on the board and racked up two first downs.

In stepped Arlington Nunn.

He took Studer's next pass 55 yards the other way for the first Tiger touchdown of the "Hatfield Era." After that, the outmatched visitors found it next to impossible to move forward, and the Tigers never looked back in a 59-0 victory.

The Tigers 1990 opener felt like a day at the beach as Death Valley sweated through temperatures in the upper eighties, not to mention the Clemson bullies kicking sand in the faces of the smaller guys from sunny California. Legendary coach George Allen got a rude initiation to major college football while first-year Clemson coach Ken Hatfield showed no signs of breaking a sweat, despite the temperature.

Allen summed up the afternoon festivities afterward, saying "I don't want to be involved in any more



Kevin Taylor/head photographer

Tailback Ronald Williams goes airborne for a score against Long Beach State in Clemson's season opener.

games where you're so outmanned. It's not fair to the kids...What I told the players is that we'll take this out on someone else."

That may leave the 49ers with a lot to take out on someone down the

road. The Tigers only allowed the visitors 14 net yards after those first two series, 57 for the game. The Tiger's much publicized defense

see BEACH, page 23

Virginia  
streak in  
questionby Geoff Wilson  
staff writer

The Clemson Tigers travel to Charlottesville, Va. this Saturday hoping to start one streak and keep another from ending. The Tigers open their ACC schedule with possibly their toughest game, while they attempt to keep their almost unheard of 29-game winning streak against Virginia alive.

The fourteenth-ranked Cavaliers (1-0) have already ended another streak. In a 59-10 shellacking of Kansas last Saturday, UVa won a game played west of the Mississippi River for the first time in its history.

The two Moores, who are unrelated, paced the Cavaliers. Quarterback Shawn, a Heisman Trophy candidate, completed 16-of-27 passes for 254 yards, 3 touchdowns and no interceptions and ran for another score. Wide receiver Herman, a preseason All-American, caught 4 passes for 97 yards, including a 59-yard touchdown pass from Shawn. The offense had a balanced attack, cruising to a 31-0 halftime lead and finishing with 275 yards rushing and 289 yards passing.

see CAVS, page 23

## Cross Country Track warms up for new season with high hopes

by Jim Carlisle  
staff writer

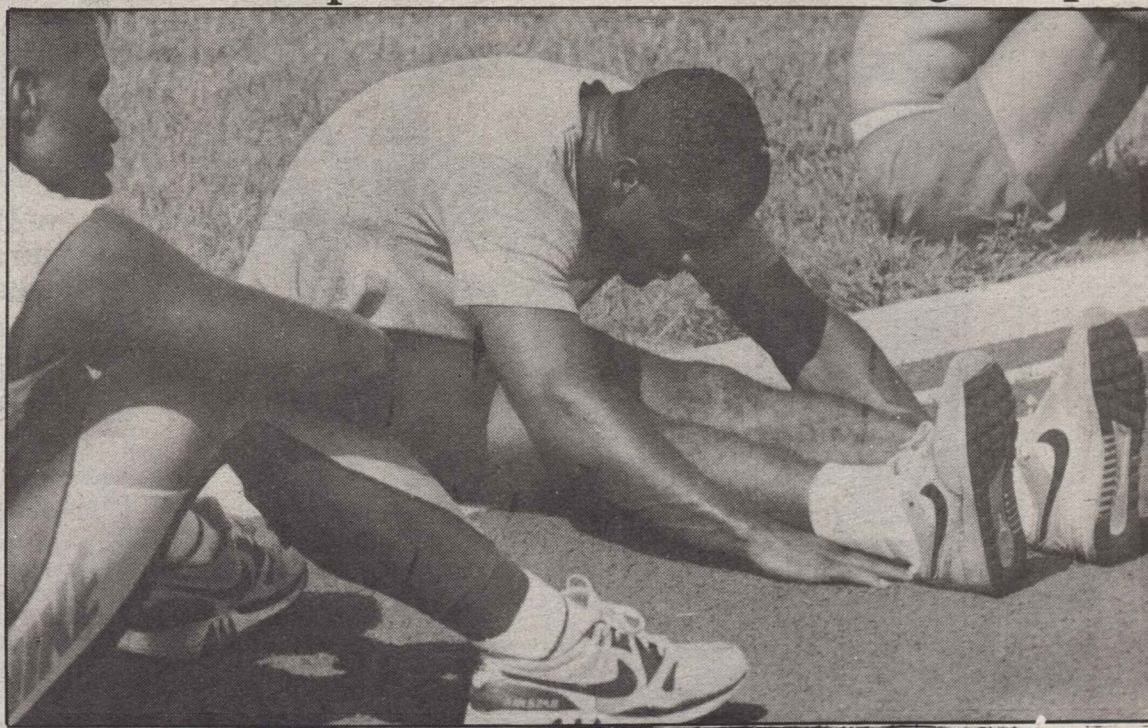
Cross Country season marks the beginning of a long string of Clemson track sports — cross country, indoor track and outdoor track. The men's team finished 21st in the nation last year, while the women's finished seventh, and both teams are looking forward to a good cross country season this year.

Finishing in the NCAA top-ten is nothing new for the Lady Tiger track program. They have done it six times in the last nine years under Coach Wayne Coffman.

The women's team is keeping six of their seven top runners from last year. Veteran runners Kris Salt and Michelle Scholtz are among those returning and will be strengths for the team.

"We have some familiar faces and some important newcomers on the cross country squad. Cessy Hudson is coming back off an injury and we have a lot of depth with Edwina Foley and Gail Groulx. I look for Mareike Rensing to run in the top three right off the bat. I think we will be very good again in cross country," says Coffman.

Unfortunately, the men's team has lost two excellent runners. Larry Clark, who won top places in all five 1989 meets, will not be returning. Dov Kremer, an ACC in-



Kevin Taylor/head photographer

Charlie James plans to help lead the track team after a neck injury forced him to stay off the field.

dividual champ and All-American, will also be missed. But Coach Bob Pollock is looking to Philip Greyling, a junior from South Africa, to be a top finisher this season.

With experienced runners like Greyling, Pollock seems to be optimistic about the season. "I think that this year's team will be improved because we have a good balance of talent.

Philip Greyling has the potential to win All-American honors in cross

country as he has in indoor and outdoor track.

"Dave Wittman had an exceptional season last year and really came through when necessary. Cormac Finnerty was consistently up there the entire time and I think if he can stay away from injury, he may have a great season."

Last year Finnerty was a number-two runner for the Tigers until he was slowed by a hip injury.

Two new runners, John Doherty

and Chris Dunn, were junior college All-Americans last year, and Pollock expects them to "...make an immediate impact on the squad."

Geoff Moore and Naftal Gichaba from Kenya will also try for a top-five slot.

Both men's and women's teams will run in the Clemson Invitational, their only home cross country meet, on September 15th at the Cross Country trail on Perimeter Road.



## Ibrahim looks for new commitment

by Jeff Kinkead  
staff writer

The grass is green and the field is lined, Clemson Soccer is up and running. The Tigers started off the regular season Aug. 29 taking on Emory. Clemson took the victory handily 5 to 0.

Jon Payne led the Clemson scoring drive against Emory with two goals for the day.

Steve Wolf, Richie Richmond and Thomas Najjar popped in one goal apiece to bring The Tiger total to five goals for the afternoon.

While starting the season of on the right foot, the left one failed to follow through in the second game when they stumbled against Greensboro.

Freshman Jimmy Glenn netted on a pass from Kevin England, but this was not enough to put the Tigers over the top. Clemson was dropped by the score of 2 to 1 in the Greensboro Spartans favor.

Coach I.M. Ibrahim, who has had great success in the past, had this to say about the game: "It

seemed we were right on track after Emory but, the pressure really showed, in lapses, against Greensboro. Drastic changes will be made to correct the mistakes."

The coach also remarked, on a brighter note that the team had a "...strong young goalkeeper in Jaro Zawiswan."

Drastic changes were made indeed as the Tigers rebounded from its first loss of the season to defeat Baptist College by a shocking score of 9-0.

The majority of the first half was scoreless, but with 11:11 remaining in the first, freshman Mike Konopaski passed the ball to Matt Kirk for the score. Kirk then booted in Clemson's second goal of the half with 5:26 left to put the Tigers up 2-0.

Clemson boosted its lead in the second quarter with a Andy Pujats goal with 40:13 remaining in the game. Two minutes later, Pujats repeated with another goal to move Clemson's lead to 4-0 at the 38:45 mark.

Within 39 seconds, the Tiger

offense had struck again as Jean Servy chipped in the Tigers' fifth goal of the night.

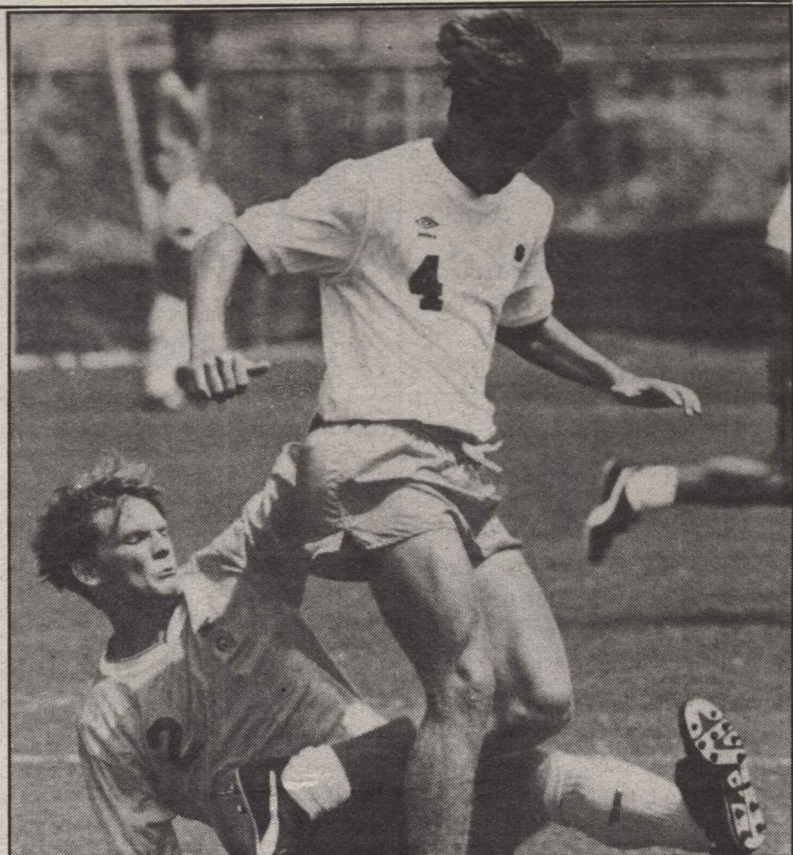
Rob Fritz added another goal for Clemson at 28:35 to increase the Tiger lead to 6-0. Kirk then assisted Kevin England for the seventh goal of the night.

Kurt Lehnert followed up with goal number eight at the 22:47 mark, and England finished the scoring attack with a goal at the the 16:49 point.

"We are looking forward to a renewed commitment from our players," remarked Ibrahim about the new season.

Ibrahim is considered by many as the Father of Clemson Soccer. After 23 years and over 300 victories he has compiled an impressive record to say the least.

He has seen 85 of his players named All-ACC 1st team, distinguishing Clemson with having the most players named in conference history. Ibrahim is the ACC's all-time winningest coach in ACC competition with 83 wins, among them 11 ACC championships.



Chip East/senior staff photographer

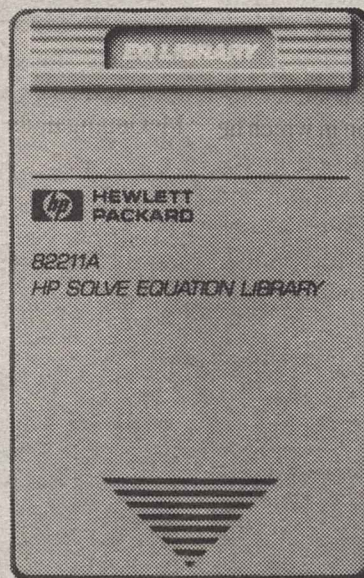
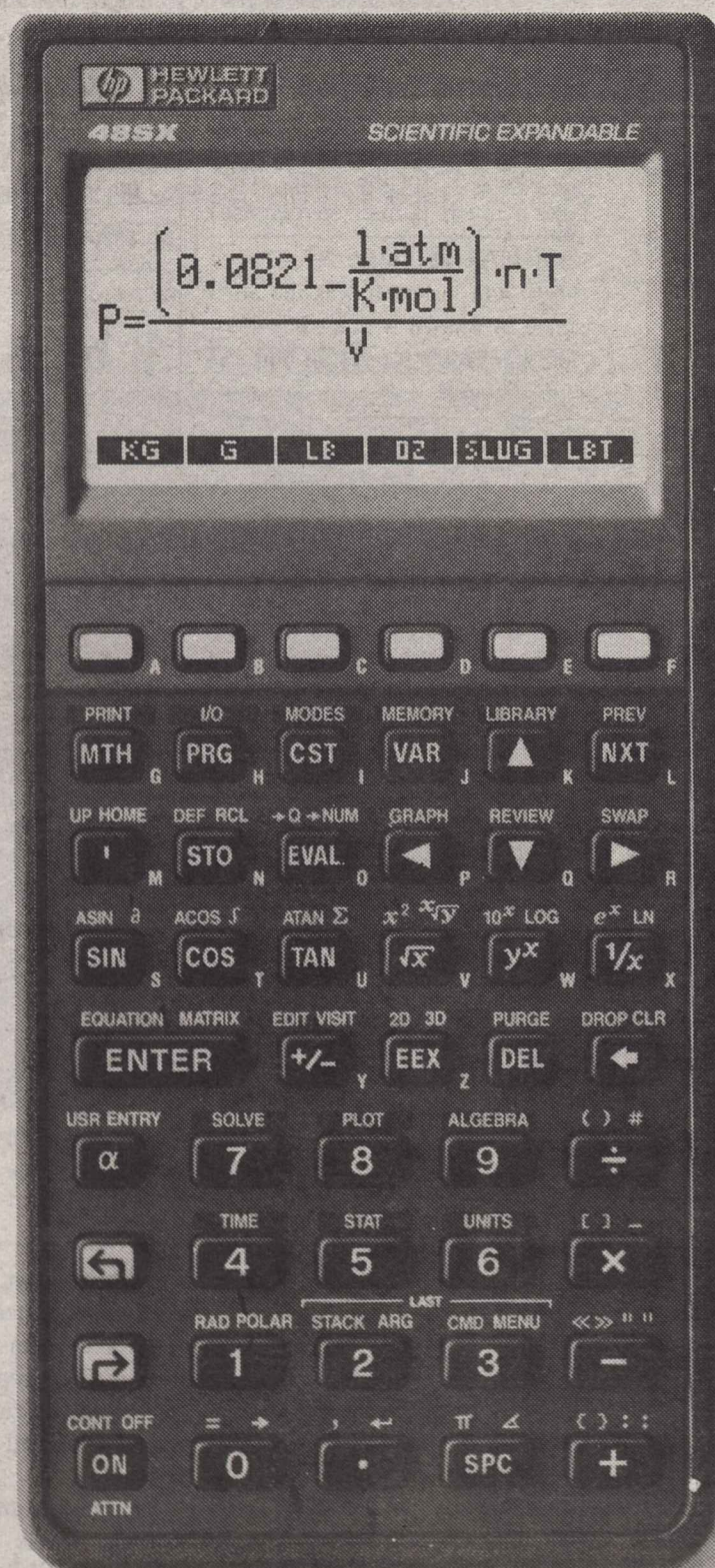
Andy Pujats puts the moves on a UNC-Greensboro player.

He is the 6th all-time winningest coach in collegiate soccer history with 316 W's. Many of these victories came between 1972 and 79 when the teams sported a 38-0-2 ACC record. With Ibrahim at the

helm, Clemson has navigated its way to six Final Four appearances, winning the national title twice.

Clemson's next challenge will be against the UNC Tarheels at Clemson this Sunday at 2:00 pm.

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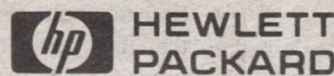
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### TRAILING, from page 21

attention placed on Virginia and the game itself?

"It's a bunch of hype. We've beat 'em in the past and we can beat 'em again," stated reserve linebacker Wayne Simmons. When asked if this was the key game for the ACC Title, Simmons replied, "I look at every game as the key game."

Most of the Tigers seem to be downplaying the importance this game has concerning the ACC Title, but one thing is for sure, the media is doing their share of the work in promoting this game as The ACC Game of the Year.

Although most doubters of Hatfield's ability have come to respect, even like, Hatfield, a win at UVa would put all questions to rest. At least until next game...

**Watch  
Clemson  
and  
Coach  
Hatfield  
take on  
UVa  
on ESPN  
at 4:00  
pm  
Saturday**



**BEACH**, from page 21

disappointed few in pitching a shut-out to start the year. Clemson returns eight starters on defense, six who earned All-ACC last year, and the expectations have been high. The revered linebacking corps played a solid game, while Vance Hammond and Chester McGlockton registered sacks on the line. The fierce play up front made it tough for the 49er's quarterbacks to test the Clemson backfield.

Several Tigers who did not start for the '90 squad actually led the defensive stand Saturday. Ed McDaniel, back in top form after injuries plagued him last season, turned in seven tackles to get top honors. McDaniel was followed closely by redshirt freshman Arthur Bussie who turned in five stops. And of course there was Nunn, who turned in the knock-out blow midway through the first quarter.

Their performance Saturday did nothing to diminish high expectations for a fiercely talented and deep Tiger defense in 1990, much like those of all of Clemson's part championship teams.

Coach Allen said it best once again, "Clemson's defense is not going to give up many points." Period.

With all of this talk about the defensive effort Saturday, you may be wondering how the Tiger's managed 59 points. Welcome to Clemson football, they did it on the

ground. The Tigers rolled up 330 yards on the ground, most of it coming from the fullback position.

Starting fullback Howard Hall, a sophomore from Gastonia, N. C., ripped off 40 yards on Clemson's first touchdown drive before redshirt freshman Rodney Blount took it in from 3 yards out. Gardocki's kick made it 14-0. A DeChane Cameron pass for 29 yards to Doug Thomas set up the Tiger's third score as Cameron took it in from 11 yards out.

Richard Moncrief marched Clemson down the field late in the second quarter with fullback Rudy Harris and tailback Rodney Blunt carrying the ball well. Blount got his second touchdown of the day as Gardocki's point-after made it 28-0 at the intermission.

The 49ers kicked off to Clemson in the second half with maybe a slim chance of not being blown away. Sixteen seconds later Doug Thomas had returned that kick 98 yards for a Tiger touchdown and the slim chance was none. Hall continue to run the ball well and picked up a touchdown for his efforts making the score 42-0. Gardocki added a 23-yard field goal to cap the third quarter scoring as the fourth quarter brought a time to get substitutes some valuable experience.

Freshman running backs Derrick Witherspoon and Ronald Williams looked good in their debuts as Witherspoon got some work at fullback and Williams got his first

collegiate touchdown. Third string quarterback Jimmy McLess made it 59-0 late in the fourth quarter with a nice 29 yard run.

Although the offense was not yet a fine-tuned machine, the Tigers may have partially erased some of the question marks that have marked the preseason.

The fullback position looks strong with Hall having an outstanding game, and leading returning rusher Tony Kennedy is expected to return from an injury next week. This looks to be important as the emphasis in Hatfield's offense has always been placed on the fullback.

However, the Tigers may not miss a beat at tailback, considering Rodney Blunt's two-touchdown performance.

Except for a midfield fumble, Cameron looked especially sharp and Moncrief may prove to be a more than capable backup at quarterback.

All of these positions were question marks heading into the season, and although the Long Beach State game is not to be used as a measuring stick for the season, the performance of these young offensive players seem to show nothing but promise.

Heading into next week, this leaves Clemson as a place George Allen won't soon return to.

When all was said and done, Coach Allen was hardly thrilled to be in Death Valley. "This is my first trip to Clemson, and I doubt if I'll come back again."

## Compliance director 'a full-time job'

CLEMSON—When attorney Paul

Aaron joined the small but growing ranks of college athletic compliance officers, he figured he'd have to answer a lot of questions about National Collegiate Athletic Association policies, procedures and penalties.

But the first question he usually finds himself fielding is: "Is that really a full-time job?"

Aaron, chosen in July to fill the newly created job of director of institutional compliance at Clemson University, smiles and picks up the nearly 400-page NCAA manual of rules governing major college sports—which looks slim, by the way, next to Clemson's own book of athletic politics. Yep, it's a full-time job.

Aaron should know. He has firsthand experience with the NCAA, having assisted with Clemson's case preparation during its recent brush with NCAA investigators. The university's self acknowledged violations led to probation, but no sanctions—a fact the Committee on Infractions contributed to the institutional controls already in place and the school's plan to enhance them by adding the position Aaron now fills.

In the new job, Aaron has day-to-day responsibility for aspects of the athletic program regulated by NCAA rules, including certification of athlete eligibility, administration of financial aid to student-athletes, and re-

He will coordinate educational and monitoring programs aimed at preventing rule violations, and he will conduct inquiries when the university suspects rules violations and report them to the NCAA and the Atlantic Coast Conference when appropriate.

"I don't plan to try and memorize all the NCAA rules. One thing I learned in law school was never to depend on memory," he says. "You have to know where to look or who to call."

He sees the job boiling down to two major functions: Turn policies into practice, and document everything.

"Clemson has a lot of good policies, but it's not enough to have them on the books. You've got to make sure they're presented to people so that they can put them into practice," he says. "And you've got to document everything you do. If the NCAA has a question about a particular prospect's visit, you'd better be able to go back to your records and answer it."

A good example is Clemson's donor handbook—a glossy, colorful publication summarizing pertaining to recruiting that is sent to every booster. Aaron wonders if most do people have ever opened it. "We've got to find better ways to get let boosters know that they can't do anything to help us recruit. Period."

**CAVS**, from page 21

The defense stifled Kansas' offense, holding the Jayhawks to 137 yards passing and only 98 yards rushing. The strong Cavalier defense also forced three fumbles and picked off a Kansas interception.

The Cavaliers return 41 lettermen and 12 starters from last year's 10-3 team, which tied for the ACC championship, the first in Virginia history.

The team's success is due in part to coach George Welsh who

has led the Cavs to three bowls in six seasons since taking the reins in 1982.

Shawn Moore, the team's catalyst, comes off a season in which he was the only quarterback in the nation to pass for 2,000 yards and rush for 500. This game will be especially important to Shawn after missing last year's showdown with the Tigers due to injury.

Shawn Moore's favorite targets have as much to do with his success as his arm does. Herman Moore,

rated by The Sporting News as the top wide receiver in college football, finds himself as Shawn's first pick in the air. Tight end Bruce McGonnigal, an honorable mention All-American last year, provides an excellent second target for Shawn.

Clemson coach Ken Hatfield is concerned not only with Shawn Moore, but also with the Cavaliers' recent consistency.

"They've won 16 out of their last 19 games, and they're really

playing with a lot of confidence right now," Hatfield said.

Both teams are coming off impressive showings both offensively and defensively, and although three of UVa's defensive starters are listed as doubtful Saturday, both teams are relatively injury-free.

A major factor in Clemson's 34-20 win last year was the absence of Shawn Moore, but this year the Tigers must stop him to stop Virginia.

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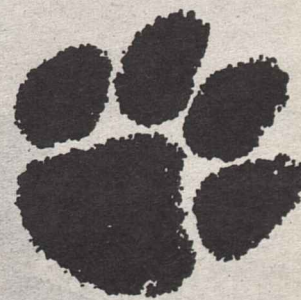
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# Fame doesn't affect Long's traditional southern values

by Pat McGlynn  
staff writer

Atlanta Falcons take note: There is a home-grown All-American at Clemson that wouldn't mind staying at home. His name is Stacy Long, and he is the Tigers 6'2", 275-pound Offensive Tackle.

Stacy holds the Clemson record for knockdown blocks (KD's) at 66. In addition to his 3 ACC Line-man-of-the-week awards last year, another Tiger record, he was named Sporting News First Team All-American. All this, and more, while nursing hernia and wrist injuries.

But the name Stacy Long hasn't always been in the spotlight. Off the field problems slowed him early in his career, and he spent most of 1988 backing up All-ACC performer Jeff Nunamacher. In fact, more often than not the name Stacy isn't used at all.

As the Industrial Education major explains, he used to work up quite a sweat and a puffy red face while jumping on his trampoline as a kid. An Uncle noticed and started calling him "Frog." The name has

stayed with him to this day. His teammates call him "Frog", and even his high school teachers called him "Frog."

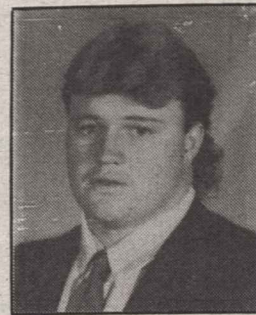
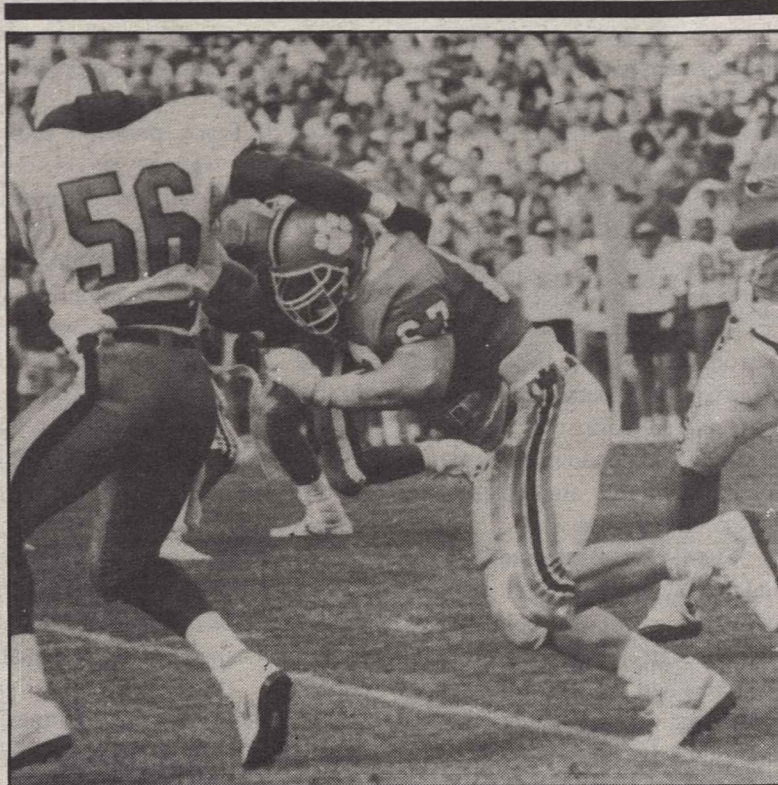
As the nickname suggests, he is a southern boy and he holds on to traditional southern values. Tradition, after all, is what brought Stacy Long to Clemson from Griffin, GA. The big lures for Stacy were Danny Fords' down-home charisma and the Tigers' winning tradition.

Since it all started at age nine in Pee-Wee Football, Stacy Long does not like losing. His competitiveness stems from his older brother. They had a typical childhood of constant fights and sibling rivalry.

"See, because of my size, I was moved up to play with older guys. We (my brother and I) were teammates," says Stacy.

They both would strive to be the best at whatever they did together. "If he had my size he'd be All-World. He had the heart, he just didn't have the size," exclaims the 23 year-old Senior.

Certainly, Stacy Long has the heart and the size. It wasn't until last year that he received the opportunity



Stacy Long proved to be quite a menace to oppsing defenses last season. As an All-American pre-season pick this year, Long is expected to do much of the same this season.

to prove it. He came out of virtual obscurity into All-American status. Now he is a frontrunner for the Outland and Lombardi Trophies, the two top honors for Linemen, and thrust into the media spotlight.

That is something that this reserved, small-town football player isn't accustomed to.

"It's great, but there still is a lot of pressure," notes Stacy. Previously, he could work hard and remain in the background. Now the kids look up to him and the fans expect him to perform. "The problem," says Stacy, "is you almost have to perform well."

It seems like Stacy thrives on the pressure, having his best games against the toughest of competition. For instance, last year at FSU against Odell Haggins, one of the best defensive linemen in the country, he graded at 85% with 10KD's. Ray Agnew of NC State tore apart competition last year, but not Stacy. He stymied Agnew all day in recording 7KD's.

All the accolades and records and stellar performances change things somewhat for the 1990 Football season. Stacy got used to being in the background as a kid. He was reserved and somewhat shy.

"I think he just enjoys the smaller things in life," comments teammate Levon Kirkland.

This year he is no longer in the background, he is the center of attention. With that attention comes a good deal of pressure and responsibility. Kirkland believes he can handle it just fine saying, "The awards and the All-American stuff really doesn't get to him."

The added attention also means that Stacy Long is now the person people will be gunning for. No longer is he looking to get respect by performing exceptionally well against top players like Agnew and Haggins. Long has the respect, and opponents will look to him as the big challenge.

"What I really expect is to get everybody's best shot this season."

How does Stacy handle all this pressure? He enjoys unwinding by playing softball in the off-season, but mostly he copes with the support of family and friends; those traditional southern values of home. His parents attend all the games, even traveling to those glorious Bowl games.

Where does the determination come from to give it his best day after day? Maybe because Stacy Long has never wanted to do anything else but play football. "I just keep going on 'cause I don't want to quit, I never want to quit playing football," he says.

Along with his brother, Stacy lists Coach Bill D'Andrea as a major influence in his life and football career. "I guess it all started with Coach D'Andrea, my position coach when I came here," begins Long. "He helped me and told me I had the ability to play in the NFL."

An education is a must for him, with his current courseload he should graduate next Summer. He would also like to use his Education background and teach, possibly coaching as well.

This past summer he enjoyed working at Jerry Nettles offensive line camp. The kids who attended that camp just may have learned from the best tackle in the country.

When asked where he would like to play in the NFL, he quickly replies with Atlanta; those traditional southern values again. Long would definitely like to stay close to Griffin, GA, and to Clemson. The Falcons would doing quite well if they were to snag Long in next years draft. Are you listening Atlanta?

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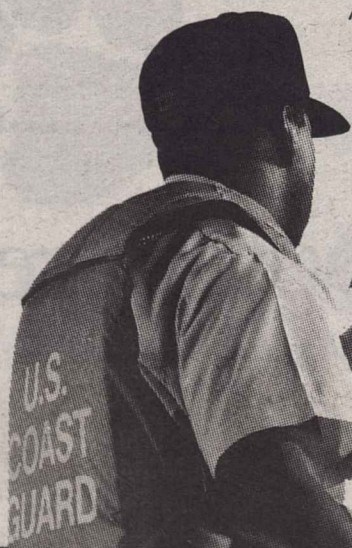
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# Women's Volleyball team experiences deja vu at the Palmetto Classic

by Eric Lyons  
assistant sports editor

After this past weekend, Clemson would probably like to change the site of the Palmetto Classic volleyball tournament.

Where to? Anywhere in South Carolina except Columbia.

For the past two years, Clemson has reached the finals of the tournament, only to take home second place after losing to the host of the tournament, the Gamecocks of South Carolina.

On Friday of last week the Tigers defeated Coastal Carolina in the first round, then South Carolina defeated Clemson 15-2, 15-2, 15-7 to force the Tigers into the losers' bracket.

The Tigers then advanced to the finals with a 15-6, 15-1, 15-1 win over Winthrop and a 15-9, 9-15, 15-13, 15-7 win over the College of Charleston. In the final game of the affair, South Carolina prevailed again 10-15, 13-15, 15-11, 6-15 to drop Clemson's record to 0-3 against South Carolina in the two-year history of the tournament.

The Tigers, however, were not in full force for the tournament.

Junior Anniemarie Castro was missing due to an injured knee, as was sophomore Jill Hensley and freshman Rochelle Thompson. The missing players required lineup

changes, forcing key players to play positions other than their own.

Without outside hitter Tashia Greene, however, the Tigers may not have even reached the finals. Her 54 kills led all Tigers in the tournament, including 15 in the Charleston match.

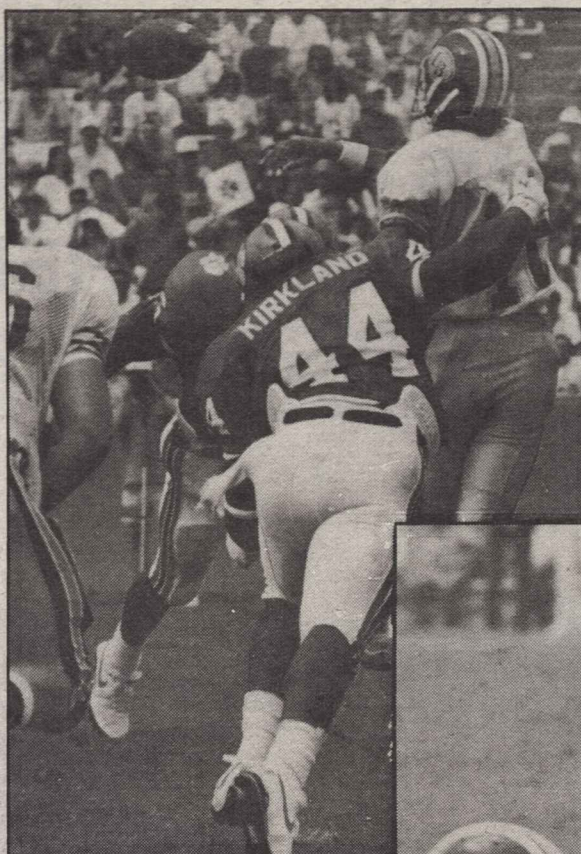
She also led the team in kills with 12 last Tuesday night when the Tigers opened their home season with a 15-6, 15-12, 15-9 victory over Georgia State. The win improved Clemson's record to 4-2 overall.

This weekend the Lady Tigers travel from the Palmetto State to sunny California when Clemson participates in the St. Mary's Invitational on September 7-8. It is the first trip for Clemson to California, and Head Coach Linda White likes the opportunity of the trip.

"They will know little about us, so we have the opportunity to play them on neutral turf. It also gives our program some exposure in a part of the country where it hasn't had any," said White.

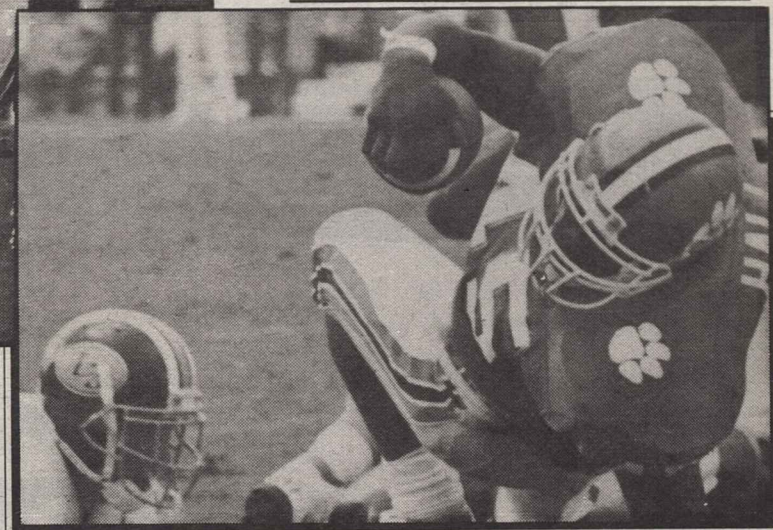
The field in the tournament includes host St. Mary's, regionally-ranked Boise State, last year's NAIA National Champions in BYU-Hawaii, Nevada and San Francisco.

Clemson's next home game is this Tuesday when the Tigers host Western Carolina at 7:00 P. M.



Photos by  
Chip East and  
Kevin Taylor.

Saturday's game with Long Beach State provided plenty of opportunities for Tiger staff photographers. (Left) Outside Linebacker Levon Kirkland helps to put the brakes on the Long Beach offensive attack. (Below) Howard Hall gives it that extra effort to pick up yardage for Tigers.



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UVA vs Clemson	Clemson	Clemson	UVa	Clemson	Clemson	Clemson	Clemson	UVa	Clemson	Clemson
GA Tech vs N.C. State	N.C. State	GA Tech	N.C. State	GA Tech	GA Tech	GA Tech	GA Tech	GA Tech	N.C. State	GA Tech
USC vs UNC	USC	USC	USC	USC	USC	USC	USC	USC	USC	USC
West VA vs Maryland	West VA	West VA	Maryland	West VA	West VA	West VA	West VA	West VA	Maryland	West VA
Wake For. vs App. State	Wake	Wake	Wake	Wake	Wake	Wake	Wake	Wake	App. State	Wake
UCLA vs Oklahoma	Oklahoma	Oklahoma	Oklahoma	Oklahoma	UCLA	UCLA	Oklahoma	UCLA	Oklahoma	Oklahoma
Illinois vs Arizona	Illinois	Illinois	Illinois	Illinois	Illinois	Arizona	Illinois	Illinois	Arizona	Illinois
LSU vs Georgia	GA	LSU	GA	GA	GA	GA	GA	GA	GA	GA
Okla. St vs Florida St.	Florida St.	Florida St.	Florida St.	Florida St.	Okla. St.	Florida St.	Florida St.	Florida St.	Florida St.	Florida St.
Penn State vs Texas	Penn St.	Penn St.	Texas	Penn St.	Texas	Penn St.	Penn St.	Texas	Penn St.	Penn St.
Miami vs BYU	Miami	Miami	Miami	Miami	Miami	Miami	Miami	Miami	Miami	Miami

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# Campus Bulletin

## announcements

Applications are now available for scholarships to be awarded to undergraduate students during the Make-up Scholarship period for the 1990-91 academic year. The deadline to apply is November 1, 1990. Applications are available in the Financial Aid Office located in G-01 Sikes Hall. Students who previously applied for scholarships for the 1990-91 academic year by the March 1, 1990 deadline, will automatically be considered and need not re-apply. To be considered for need-related scholarships a Financial Aid Form should be submitted at least four weeks prior to the November 1, 1990 deadline to allow ample time for processing. Students who have a current Financial Aid Form on file at Clemson University are not required to resubmit.

The Clemson University Botanical Gardens Volunteers are sponsoring a fall plant sale. Order forms are available from volunteers and at the Red Caboose in the Garden from 8:00 a.m. to 3:00 p.m. They are also available from the Framery in Liberty and Pendleton, Lynch's Drug

Store in Clemson, Thee and Me Health Stores in Seneca and Easley, and the Pendleton Oil Mill in Pendleton. All orders are prepaid and the deadline for orders is September 20. The plants will be delivered on September 30 from 1:00 p.m. to 5:00 p.m., at the Red Caboose in the Botanical Gardens. For more information call Betty Cruickshank at 654-1526.

Golden Key National Honor Society will have a general meeting on Thursday, September 13 at 4:00 p.m. in the Student Senate Chambers. All members are urged to attend.

The Clemson Sports Car Club will have a meeting on September 10 at 7:00 p.m. in the Jordan Room. We will also have an Auto-Cross on September 16 at 10:30 a.m. in the lot below the stadium. If you are interested in anything with a motor and wheels. Give us a call or drop in on any of our events. We are planning trips to the Atlanta Dragway-Greenville/Pickens Speedway, Road Atlanta and Chimney Rock. Call Erik at 646-7994 or Jay 639-9542.

Students are invited to

join in a 6-mile fun walk and bring-your-own-sack lunch picnic on Saturday, September 15. Certificates will be given, and there will be a drawing for prizes. The cost is \$6.00 for a team of six. The walk will begin at the resident parking lot below the Horticultural Gardens on Perimeter Road, continue to J.P. Stevens Plant and return to the starting point. Registration is at 8:00 a.m. and the walk begins at 9:00 a.m. The college of Nursing Wellness Center and J.P. Stevens are co-sponsors. Call Ron Alexander at the Wellness Center, 656-5479, for information on how to participate.

## for sale

For Sale: Baseball, Football and basketball cards. Call Dean at 654-9240 or write Box 2002 for price list.

FOR SALE: 1985 Ford Escort, 2 door, AM/FM, stick-shift, perfect condition, excellent gas mileage, 79,600 miles. Call 654-9328.

## help wanted

COLLEGE REP WANTED to distribute "Student Rate" Subscriptions

cards at this campus. Good income. For information and application write to: Collegiate Marketing Services, 303 W. Center Avenue, Mooresville, NC 28115.

CAMPUS SALES REPRESENTATIVE FOR T-shirt screen printing business. Commission basis. Contact Rankin Hobbs (404) 618-3003. Monday-Friday 8:30-5:30.

ATTENTION: Excellent income for home assembly work (504) 646-1700 Dept. P5158.

EARN \$5.25 PER HOUR calling for prestigious colleges and universities. Part-time three to five nights a week. Call Shawn Hall at Fund-Raising and Management Counsel for more information. 231-7104.

HELP WANTED. Baby-sitter needed immediately to care for children during morning Jazzercise class. Call 654-3867 for information.

Need a job? Flexible hours! Good pay! Call University Police 656-2222 or come by for an application.

Raise a thousand in a week. The fund-raiser that's working on 1800 campuses. Your campus group can earn up to \$1,000 in just one week. No investment needed. Be first on your campus. A FREE gift just for calling. Call now 1-800-765-8472 Ext.90.

Classic Photography has immediate openings for photographers. 35mm. experience helpful. Transportation a must! Flexible hours! Good pay! Call 654-8019 Monday-Friday, 12:00-5:00.

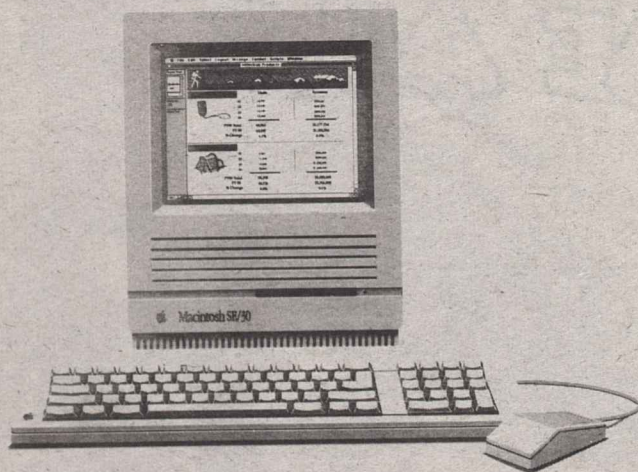
FAST FUNDRAISING PROGRAM: \$1,000 in just one week. Earn up to \$1,000 for your campus organization. Plus a chance at \$5,000 more! This program works! No investment needed. Call 1-800-932-0528 Ext.50.

## housing

Apartment: University Ridge-Girls-Call 235-1264 or 288-4169.

## lost and found

LOST: One gold bracelet. Found between P & A Building and Dairy Sales. To identify: Contact Linda D. Alexander at 656-4700.



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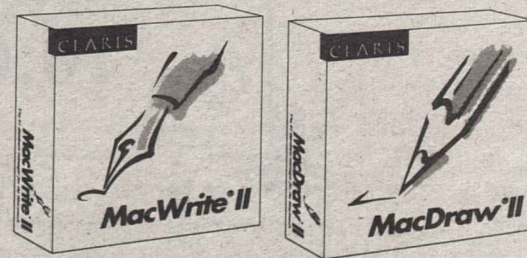
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Stop by PC Days on Campus  
Palmetto Ballroom 9/12 & 9/13  
10 a.m. - 4 p.m.  
or Call the Micro Center at  
656-3714

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