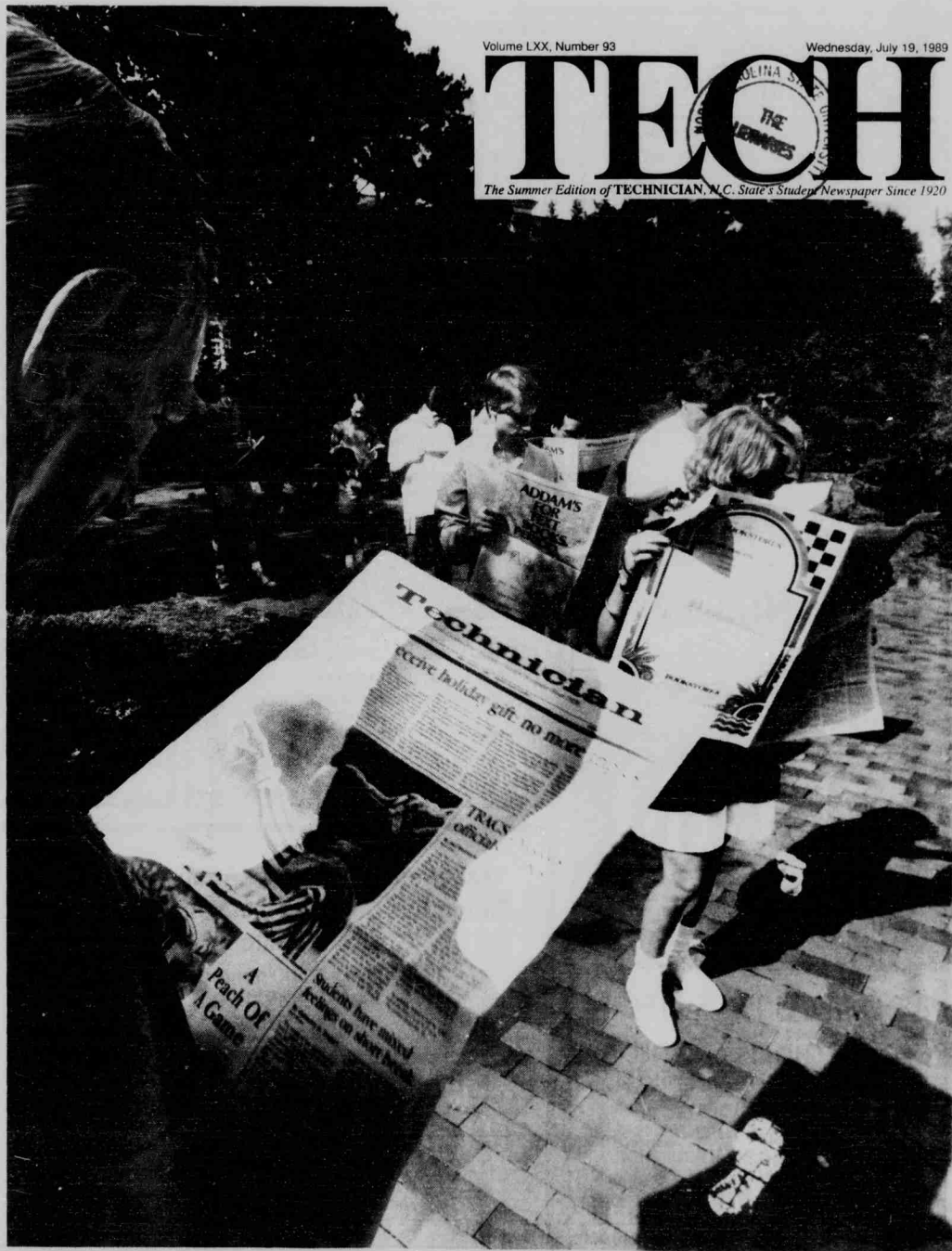


Volume LXX, Number 93

Wednesday, July 19, 1989

TECH

The Summer Edition of **TECHNICIAN**, N.C. State's Student Newspaper Since 1920





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TECH

The Summer Edition of TECHNICIAN

Editor in Chief
Mark S. Inman
Managing Editor
Phil Taylor

A paper that is entirely the product of the student body comes out once the official organ through which the students, the activity and in fact the very life of the campus are registered. It is the mouthpiece through which the students themselves talk. College life without its journal is blank.

Technician, vol. 1, no. 1, February 1, 1920

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Serving North Carolina State University since 1920

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TECHOpinion

UP FRONT

JULY 19, 1989 3

As some of you students out there who pay attention to your cash may have noticed, we are just about to get slapped with a 20 percent increase for in-state tuition. You lucky types from out of state only receive 15 percent; that's five percent off for good behavior.

At first, this is economic bad news: in-state students pay about \$500 a year in tuition fees, and after the raise, that'll be about \$600. Empirically, it can be argued that over the last eight years, N.C. State's rise in the cost of tuition has lagged behind the rise in the cost of living. Since 1982, we've only endured a total of eight percent in tuition increases, as compared to the roughly 40 percent increase in the cost of living. In short, the bad news is that we'll be forking over a total of 28 percent more than we would have in 1982, a total of \$1,020 in tuition and student fees in this coming year. The good news is that we're not forking over 60 percent more, or close to \$1,240.

We at Technician have thought long and hard (through at least two joint editors' meetings) for a solution which will head off future fiscal belt-tightening and fee-raising.

What this state needs is a good lottery. Presently, there are 21 states which have decided to cash in on the modern lottery business; at least 18 additional states have lottery legislation pending. North Carolina government traditionally has skirted the edge of the lottery arena. Our sources close to North Carolina government shrugged their shoulders upon being

asked about the present state of North Carolina lottery legislation. They say that it's a pretty safe bet that there's a committee working on it, but don't hold your breath waiting to hear about it.

For those of you who don't believe in the power of a lottery, according to Madison Avenue magazine—20 million one-dollar tickets are purchased each day. In 1984, roughly \$7 billion was spent on lotteries, and in 1986, \$14 billion.

During the first three months of operation, the California lottery sold 800 million one-dollar tickets, and at that rate, was expected to generate more than \$2 billion in ticket sales by the end of its first year.

The Florida lottery, which began in 1988, has been successful. It generated \$95 million in sales in its first week, breaking records set by California which has twice its population. The Florida lottery was projected to gross \$1 billion in its first 12 months, with education receiving 35 percent of the total intake. It reached the target in only eight months.

The Florida Department of Commerce reveals that the lottery is successful because many people in bordering states who do not have lotteries play in Florida. Retirees and vacationers who come to Florida also have a positive influence on the lottery. Many of these people have lotteries in

their home states and are accustomed to and enjoy playing lotteries.

Invariably, the first argument heard here in North Carolina against lotteries is that they victimize the underclasses, the poor, with the minority poor hit the hardest.

However, research on the five top-grossing state lotteries of 1986 shows that the most successful marketers have moved their lotteries upscale, thus disproving the stereotype of lottery ticket buyers. Using this logic, an upscale lottery would be targeted toward those who would benefit from it most; those who would be sending their children to a state-supported school. And that's the same school system that would be reaping the major bucks from the lottery.

Just like Florida, North Carolina has a great deal of tourism, as anyone who's vacationed anywhere from Manteo to Murphy can tell you. And industry has drawn all types of people to North Carolina from just about everywhere, so it's safe to say that there is an audience, in addition to natives, who would gleefully shell over the bucks to play a lottery here.

All of the indicators are in place. It's just a matter of time before North Carolina legislators catch on. A lottery would benefit the state, especially those enrolled in its state schools.

A SYMBOL OF GREATNESS?

GREG REASONER

I was a bit troubled the other day by something I saw on television. Two men slugged it out on the steps of a great city courthouse as an American flag lay burning on the ground beside them. The first reaction of the crowd was not to separate the combatants, though. Instead they made every effort to extinguish the already disfigured flag while the two men

beat one another bloody.

There are plenty of issues that are certainly more pressing and in dire need of solution than flag-burning. Why then, do the press, the government and the American people waste so much time and energy on such a comparatively meaningless cause?

Only a handful of issues in contemporary American poli-



tics have the power to polarize the masses in such a manner. The majority of these issues deal with the conflict between individuality, chosen morality and governmentally enforced morality, and such issues are always very emotionally charged. Herein lies the power

of the flag-burning issue.

To a great many people, the flag is a deeply personal symbol of sacrifice and patriotic devotion, the best and most tangible evidence that America is worth dying for. Others see the flag as merely a mask behind which a cowardly government hides, the shield of the oppressor and the death shroud of the oppressed.

These people war against each other over the symbol instead of talking with one another about the ideas behind the symbol, and that is truly unfortunate.

There are just too many important problems to solve for us to spend so much time on trivialities. OK, so it may not be as easy to arouse such passions about the national debt or urban decay, but the effort is important and must be made. If we allow ourselves to be swayed away by arguments of mere symbolism, in time we will forget the ideals that made the symbol great.

Then the symbol will stand for nothing.



Vet school surgeons develop research dog

From Staff Reports

Surgeons at the N.C. State University College of Veterinary Medicine (CVM) envision the day when veterinary students will master basic surgery skills by practicing on a totally artificial dog model.

One tissue model, an artificial bone, already has been developed by Dr. David J. DeYoung, veterinary surgeon and associate professor of surgery at the CVM. Associate professor Dr. Elizabeth A. Stone and graduate student Ann E. Andrade are developing artificial soft tissue to simulate the abdominal wall.

"We want to reduce the need for live animals in teaching second- and third-year students," said DeYoung.

DeYoung pioneered development of an artificial bone now used across the country in veterinary teaching. His colleagues, Stone and Andrade, are developing a model of the complex abdominal wall. Dr. Frank C. Abrams, professor of biological and agricultural engineering, and Dr. Daniel C. Richardson, assistant professor of surgery, also are collaborating on the project.

During the four-year course of study leading to the Doctor of Veterinary Medicine degree, students are taught to perform basic animal surgery. Those who want to specialize in more complex surgery can elect to serve an internship and residency.

Traditionally, live animals have been used to teach veterinary students certain surgical techniques. However, DeYoung and Stone said schools are moving toward substituting artificial models when available.

When realistic substitutes are available, the surgeons said, they offer the advantage of giving students extra practice and repetition. "The quality of their work is greatly improved when they can practice on artificial material," DeYoung said.

Stone's work focuses on the special

challenge of making incisions in the abdominal wall and suturing the abdominal area.

The abdominal wall is "a complex tissue with three layers — fascia (connective tissue), muscle and fascia," Stone said. The materials now used to practice incisions and suturing, foam rubber and ham hocks, do not simulate this more complex tissue.

Andrade, who has a bachelor's degree in ceramic engineering from Clemson University, is working to develop a mathematical model of a dog's abdominal

wall which could be used to design a realistic synthetic substitute. Stone plans to discuss with researchers at the NCSU College of Textiles the possibility of manufacturing a material based on the model.

To gather the data needed, Andrade will analyze samples of abdominal wall using an instrument which measures the strength, elasticity and other characteristics of a material.

"My ultimate dream," said Stone, "is big rolls of (artificial) abdominal wall that we

can cut off and give to students for practice and share with other vet schools."

DeYoung, who specializes in teaching students how to repair bone fractures, has developed a hollow-center artificial bone that he now uses in his teaching at the CVM.

Until he developed the bone about four years ago, the only artificial bones available for teaching were solid plastic bones, which could not be used to teach fracture repair with metal pins.

See **ARTIFICIAL**, page 7



Gimme an 'A'

The Apex High School varsity cheerleading squad shows their spirit Thursday afternoon at Tucker beach. The girls were participating in Cathy Buckley's Champion Cheerleading camp which runs through July 27.

MICHAEL RUSSELL/STAFF

Kornegay works toward improved therapy for MD

By Brock Slade
Staff Writer

The most common form of muscular dystrophy in humans may soon have an effective treatment, according to a N.C. State veterinary professor.

Dr. Joe N. Kornegay, a professor of companion animal and special species medicine at the NCSU College of Veterinary Medicine, is hoping that research performed by him and his colleagues will lead to an effective therapy for Duchenne muscular dystrophy.

"(Duchenne) is the most severe of the human muscular dystrophies," Kornegay said. Duchenne, named for the 19th century French physician who identified the disease, is genetically transmitted and is found almost exclusively in young males. "Boys with Duchenne are in wheelchairs by the time they are 12 or 13 years old and oftentimes they are dead by age 20."

Kornegay is using golden retrievers with a disease similar to Duchenne to test

several forms of therapy. Physical signs of muscular dystrophy show up in dogs as young as 10 days old, according to Kornegay. When the dogs try to walk, they "bunny-hop" with their hind legs instead of attempting a normal canine gait. Their tongues become enlarged and the dogs are generally much smaller than their litter mates.

Kornegay is currently testing a treatment which involves introducing normal muscle cells into the muscles of dogs with muscular dystrophy. Like boys with Duchenne, the golden retrievers afflicted with muscular dystrophy lack a protein called dystrophin. "The actual role of dystrophin in the evolution of the disease is not really well-known," Kornegay said.

"We are hoping that the transplanted cells will contribute to the muscle regeneration in the affected dogs," Kornegay said. The transplanted cells were extracted from normal litter mates, then grown in tissue culture and finally transplanted.

Kornegay said other treatments being

contemplated include the transplantation of bone marrow from healthy dogs to afflicted dogs. "Cells arising from bone marrow might potentially serve as primitive precursors for muscle cells," Kornegay said and then added, "It would be impractical to inject every muscle in an affected dog with healthy muscle cells." Bone marrow cells might also benefit heart muscles, the intestines and other tissues affected by muscular dystrophy.

There are two objectives behind the golden retriever research, Kornegay said. "We're interested in knowing the actual mechanisms of the disease so we can find potential treatments for the sake of the dogs themselves," he said. "Beyond that, we're interested in developing potential treatments and understanding the basic mechanisms as these relate to what appears to be an equivalent disease in people."

Kornegay and his colleagues are working with scientists at Duke University Medical Center. A molecular biologist, Dr. Richard Bartlett, is leading the research at Duke.

Kornegay said the Duke scientists are

performing molecular research aimed at finding the specific genetic defect that leads to muscular dystrophy. NCSU researchers are investigating the clinical signs and pathologic expressions of the disease.

TECHFYL

Due to electrical construction in the Stewart Theatre, the following scheduled Summer Session films showing have been canceled:

Tues. July 18, "Witness"
Thur. July 20, "Children of a Lesser God"

Tues. July 25, "The Untouchables"
Thur. July 27, "Ferris Bueller's Day Off"

Look for them during the fall semester.

The cover photo was taken by Michael Russell

Corders returns to head Pack receivers

By Jim Rea
Staff Writer

Chris Corders will return from his season-ending knee injury last year to lead N.C. State's talented young receiving corps into the 1989 football campaign.

Corders, who has hauled in 30 career passes for 422 yards and three touchdowns, missed spring practice to undergo rehabilitation, but the junior from Fayetteville is expected to return for State's home opener against Maryland on Sept. 2, which will be televised live by ESPN.

"(Corders') ligaments were reattached following the Clemson game ... and he doesn't appear to have lost any of his speed," said wide receiver coach Jimmy Kiser.

Corders will have some big shoes to fill at flanker. With the loss of deep threat Danny Peebles and all-ACC selection Naz Worthen to the NFL, as well as the graduation of Eugene Peters, the Wolfpack suffered its biggest losses in the area of wide receiver. This trio was responsible for more than half of the team's receptions last season and nine of 11 receiving touchdowns.

Competing for the wide receiver positions will be senior Mike Kavulich of Marietta, Ga., Bobby Jurgens of

Raleigh, a junior who also holds records for field goals and PATs, and Al Byrd of Smithfield and Dean Mason of Crestview, Fla., both juniors who were converted from defensive back.

Another starter lost to graduation was surehanded tight end Bobby Harrell, who averaged nearly nine yards per reception his senior year.

Harrell's backup was sophomore Todd Harrison of Gainesville, Fla. Harrison and Alex Nicholson of Athens, Ga., are the only returning players with any

game experience at tight end.

Redshirt freshman Neal Auer of Fairview was converted to tight end from his outside linebacker position and was impressive in spring drills.

Kiser said some preseason reports picked the Wolfpack's largely inexperienced receiving corps as the worst in the ACC.

He also said his players were not only up to the challenge but determined to prove the critics wrong.

Like any football coach worth his salt, Kiser was noncommittal about any potential changes in the Pack's offensive philosophy that may compensate for the loss of the team's starting corps.

"We hope to maintain a pretty balanced game this fall," Kiser said.



Chris Corders



Todd Harrison

Baseball, beer, more baseball, more beer make Bulls fun

I'm back! But this time I am a new woman. Yes, I have experienced that baseball phenomenon that has mesmerized all of eastern North Carolina — the Durham Bulls. Now that I have had time to reflect on the event, I have decided to write another one of those exposes that are so hot on the market right now. I thought I'd maybe call it: "The Durham Bulls: The Broken Bais and Shattered Windows of Cars Battered Behind Durham Athletic Park," but I'm so sick of those Goldenbuck spinoffs that pop up all the time that I decided

Jennifer Holland

Sports Columnist

to call it: "Jennifer's Guide to Having a Blast at a Durham Bulls Game." Real catchy, eh?

Here's a glimpse of my soon-to-be bestseller:

— Always go with a large group. If the Bulls don't score in

the first six innings, it's nice to have plenty of people to entertain you and help you steal rally towels from young children. Thanks to Kathy Kienest and Julie Kinane who organized our outing. I had 21 people to pillage and plunder with. And we came home with a hoard of toys.

— Bring your N.C. State All-Campus Card. You can get in for two dollars instead of four or five, so don't forget it. The line for tickets is so cramped you could probably pass it back and let everyone in your group use it if they don't have one. (Shhhhhhh



— I got that idea from a bunch of Meredith girls who like to go to NCSU football games. Personally I think we should turn them all in to Public Safety.)

— Look for the giant bull in right field. If a player hits a home run, the bull's tail flops, his eyes light up red and he snorts smoke out of his nose. Also, any player who hits the bull gets a free steak dinner, or so I've been told. (Lee says he only gets a meal from Subway.) After taking softball in P.E. last year, I figure that the bull doesn't get hit very often because rarely does a hitter hit a ball into right field. I guess that's why my P.E. coach always stuck me out there when my team was on defense.

— Bring your own food. Even though everything, including the beer, costs a dollar, the food leaves a lot to be desired. The hamburgers are soggy and flat — like they've been stacked of top of each other since the last home game, then shoved into a microwave. Put it this way: you can't even peel the bun off to put ketchup on it. The fries taste like the kind we used to get at Aspen Street School. They were pretty gross, not to mention the fact that you have to stand in line for 30 minutes. You might miss a home run or something and that's not good.

— Don't eat the Cracker Jacks. My roommate Elaine got some and they were chewy. If you are the nostalgic type, bring your own peanuts and Cracker Jacks. Believe me, the Bulls will supply the strikes and outs.

— Get there early for good seats. Even when the Bulls are playing teams like the Peninsula Pilots, at least 5,000 people show up at the games. Personally, we felt that there were several hot guys on the Pilots team, so we made sure we sat close enough to get a good view of the scenery. We were hot for this Pilot named Rico until Renee tried to talk to him and he didn't know a lick of English. Rico's loss, I'd say. Andy Tomberlin, our favorite Bull, hit a home run in the ninth inning. Boy, did he look good running around those little bases.

— Get aisle seats. It is so much easier to make beer runs when at least three members of your entourage are sitting at the end of a row. Go ahead and buy beer in quantity. Brian made three beer runs in a row before they decided to give him one of those cardboard beverage containers, so ask for one at your first visit to the beer stand.

— Hassle the bullpen pitchers. When the opposing team begins to warm up a pitcher in the bullpen, pay attention. The crowd does a "woop" when the pitcher throws a pitch and a "wooo" when the catcher tosses it back. Be careful, though. Sometimes a pitcher can get smart and fake a pitch. They get a kick out of that. Have fun!

Editor's note: You can put some of these tips to good use beginning tomorrow. The Bulls are home July 20-22. They go on the road and return on July 29. 'Happy hunting!

Intramurals

Summer Session II Standings

Softball

Open League 1	Open League 2	Open League 3	Faculty/Staff/ Grad League
Endocaps 7-1	Young Guns 8-0	Bees 6-0	Imperfect Competition 7-0
No Respect 7-1	Jetsinis 7-1	Gazoo's Gang 5-1	Carp Busters 6-1
Wolfpack 5-2	Phi Delta Theta 6-2	Flounder's Fence Pounders 5-1	Random Fielders 6-1
Wolfpack Center 2-6	Mad Cats 5-3	Sammy 3-2-1	Deceptively Slow 4-2
Diamond Kings 2-6	Outta Sync 5-3	The Killas 3-3	Animal Science 4-2
Cleveland's Last Hope 2-6	The Crew 5-3	O-fers 2-4	Center Sooners 4-2
	Silent But Deadly 4-4	Bushy Stunts 2-4	Plant Pathology 3-3
	Elimators 2-6	Good Guys 1-4-1	Hue Heads 3-3
	Animal Science 1-7	ECE 1-5	Fly Balls 3-4
	Regular Guys 1-7	Toddheads 1-5	Fighting Pine Warblers 2-3-1
	DU 0-8		Weaver Whompers 2-3-1
			Rix Pack 2-5
			Abenders 1-6
			Dose Response 0-6



Summer Session I Winners

3-player basketball: Otis Day and The Knights def. Delta Sig. 51-39.

Volleyball: Sammy def. Controlling Elements, 2-0.

Tennis: Don Ball def. Kyle Corbin, 6-1, 6-2.

Racquetball: Mohab Hallouda def. Mike Sanderback 2-1.

Alarms at Carmichael Gymnasium will be placed on all outside exits to the men's locker room beginning Monday, July 24. There will be three entrances/exits to Carmichael Gym.

1. Main Entrance/Exit
2. Lobby Entrance/Exit
3. Third Floor Entrance Exit



FILE PHOTO

Former N.C. State defensive back Derrick Taylor started his career at State as a walk-on.

Dreams are realized in the life of a walk-on

By Heather Gool
Staff Writer

Becoming a walk-on, the opportunity of a lifetime. You are dreaming about being an all-star player on a championship team, when you wake up and realize that it can really happen. You wonder why you haven't thought of it before.

You tell yourself that you have talent, are a well-rounded athlete, and have the need for a family-structured organization. So, why not see about joining the baseball, basketball, or even the football team?

Head baseball coach Ray Tanner says, "First of all, you have to be realistic. Since you are not a recruited athlete, you must keep active to be in the best physical condition."

You tell yourself that you want to give Coach Tanner your best shot, or in this case, your best hit. You realize that you have one chance, since walk-on tryouts for baseball are only held once a year — usually around Labor Day weekend.

As you approach the plate, you think "homerun." The ball is released and you make connection. It's a solid stroke, right into left field. You tell yourself you might have a chance.

As Coach Tanner calls out his selections, you recall his words: "There are always positions to fill when you lose a starter." And you already know that three walk-ons dressed last season, three more were red-shirted, and one even received a scholarship.

Your next step is basketball tryouts, if there are positions available. Tryouts for the basketball team are very limited. "There have only been three tryouts for walk-ons since 1980," says head basketball coach Jim Valvano. "The ideal basketball team consists of 12 to 13 players, and most are filled by recruits."

But you're not out of luck, occasionally there is an opening for a walk-on. "When we are a little weak in an area, we look for someone who can project a mirror image for the other players," Valvano says. In fact, this year Valvano hinted that there may be walk-on tryouts to find that ideal mirror image for the new recruits.

If you do get the chance to try out as a walk-on, keep in mind that you can't go into the tryouts without any prior conditioning. Coach V's advice: "Continuously work out. The other athletes have been in conditioning programs year round, and it is unrealistic to come to tryouts without practicing in advance."

Seeing that basketball tryouts are only a slim

See SOMETHING, page 7



John Neville, starring in "The Adventures of Baron Munchausen," woos yet another damsel.

Corey takes brother to movies

Lust continues for Winona Ryder, Uma Thurman, Kim Basinger

BEAVERVILLE — Rumors of me marrying Roseanne Barr are lies. We did not meet at a salad bar outside Vegas and carry on a weekend affair that involved unsafe uses of Jell-O.

Just because the tabloids have a photo that appears to be me dressed up like a Twinkie with a G-string prancing in front of Roseanne doesn't mean it actually happened. It could have been my evil twin brother Obie, who just got out of Central Prison after serving three months on a conspiracy to loiter charge. I'm not sure what prison does to a man, but he told me that now he can truly understand William S. Burroughs and Oscar Wilde.

Anyway, it is because of these rumors that Winona Ryder has not responded to my marriage proposal.

And I'm so heartbroken over the entire thing that I've been living inside the Gogol-plex theater watching every summer blockbuster and eating Good and Plenty's. In fact I now weigh over 867 pounds. My agent is trying to get me a shot on Geraldo and Sally Jessy.

Joe
Corey

Party Favors



But even in my sadness, I'm getting to the point of sheer violence.

I'm going to be force feeding those damn Ghostbusters to those orats pretty soon, with or without the warning.

I've been spending time watching movies and no matter where or when, there's some creep hitting the button and making the thing squeal during a big scene.

I don't care if they aren't afraid of no ghost. I'm going to throttle their penicill necks with my fleshy hands soon.

Call me, Winona, before it is too late and I too discover the inside jokes within "Naked Lunch."

The Adventures of Baron Munchausen Terry Gilliam supposedly spent over \$60 million making this fairy-tale movie. He made it for his daughters as a present. Couldn't he just buy them a couple of ponies?

Actually, "The Baron" is not that bad of a movie and is pretty enjoyable for a summer flick with its mixture of action, fantasy and Uma.

Yes, it is the Uma factor that really makes this movie click. Uma Thurman plays both a member of the Henry Salt Players and the goddess Venus. The scene of her emerging from the shell is worth at least \$30 million of the budget.

Skip was the one who applauded Uma's end credit and not me. Please stop insisting it was me. I think Skip's got a thing for her, and may start hanging around the Russian Tea Room waiting for her. Mark Inman said she did a spread in Playboy last year. Time to go hunting through the back issues.

John Neville, as the Baron, is

See COREY, page 7



The Ghostbusters

Corey yearns for flesh action

Continued from page 6

everything you would want out of the world's greatest liar as he combines charm with a conniving eye.

Jonathan Pryce has a role that goes against everything he did in "Brazil." He plays Horatio Jackson, the paper-pushing mayor of the town. Pryce plays this role reversal as bureaucrat to the hilt.

Oliver Reed does some of his best work since Ken Russell's "The Devils."

Robin Williams' bit as the King of the Moon was truly madcap as he portrayed the struggles between the mind and the body in a literal way.

The one problem with the film is that no matter how hard you try, you keep pricing the scenes trying to add up the big number. Of course, if you go see it at the Rialto, the cost to you will only be \$2.50 if you show your student ID.

Hulk of the Spring

Even though "No Holds Barred" has already left theaters, I can't let it go to the video stores without declaring it the most subversive film of the summer. This is how Andy Warhol would have shot a wrestling movie. Hulk Hogan is one of the great anti-artists of our times. The movie avoids any real form of plot

development, instead just roaming from wrestling match to wrestling match. The characters seem to try to become even more superficial as the movie goes on.

You get a feeling that you should smoke cloves while watching the paradox between the conflict of the flesh and the avoidance of the soul.

"No Holds Barred" proves that American cinema still lurks in the jungles of art.

If this movie had been dubbed in French and given English subtitles, it would have been the greatest art house flick ever to hit our shores.

It changed my life.

Coach's advice for walk-ons: 'Study the plays and keep fit'

Continued from page 6

possibility at best, your third step is football. Coach Dick Sheridan holds tryouts twice a year, once in the fall and in the spring.

The football program is of such a high-caliber, that a few walk-ons have gone pro. Take Derick Taylor, for instance. As a possible walk-on, your best chance is in the spring when open tryouts are held, unless of course, you're lucky and have been invited to try out in the fall.

After you have given the coach your best shot, and are patiently awaiting his decision, you remember assistant coach David Horning's advice: "The first year is only a transition year. Study the plays and keep fit."

As the coach is making the cuts, you decide that

you don't really want to play, but would rather like to manage.

Fortunately, there are just as many opportunities to become a team manager. "We have an opening for a manager with the chance for a scholarship," says Coach Tanner. "You would still have to go to practice everyday, and travel with the team, but you will also be a vital part of the team.

Basketball and football have just as many openings and needs for managers, trainers, etc. Just go down to Case Athletic Center, and talk to any of the sports' assistant coaches.

Whether you choose to manage or play, there is ample opportunity for you to become a part of a team. Who knows, we might just see you sitting on the bench along with the recruits.

Artificial patient aids teaching

Continued from page 4

With the help of Sawbones, Pacific Research Laboratories Inc. of Vashon Island, Wash., DeYoung developed hollow-center bone with simulated soft porous tissue inside each end.

"The model can be pinned, sawed, drilled, tapped for screws, similar to bone," he said. The artificial bones also cost less than real animal bones, and they are readily available, uniform in size, odorless and clean.

DeYoung said he stumbled on the idea for hollow artificial bones by sheer accident. He said he was working on another project and happened to see model human knees made by

Sawbones. "I knew if they had the material to make bone models for humans, they could make artificial bones that simulate real animal bones."

DeYoung first developed dog femurs and later designed models of the canine humerus, radius and tibia.

He said he believes a student's self-confidence is greatly increased by using artificial bones for practice.

"With the artificial bones they have a chance to learn the motor skills they need to apply stainless steel pins and plates, and their comprehension is superior to those students trained using only live animals."

Both DeYoung and Stone believe the potential exists to develop even more artificial model parts and eventually a total model dog for teaching. DeYoung said he has been thinking about developing a knee joint model and pelvis model. Stone says she believes that once an abdominal wall model is developed, models also could be made of the intestines, bladder and urethra so students could practice catheterization.

"Artificial models provide an excellent teaching tool. They reduce the need for live animals. They are relatively low cost. And the students can practice over and over and over," Stone said.

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Dear R. in R.,

If Superman got his super powers by traveling from his solar system, which has a red sun, to our solar system, which has a yellow sun, shouldn't we be able to have super powers by traveling to a solar system with a blue-white sun? What do you think?

Foster Grant
SR Computer Science

Dear F.G.

What do I think? I think idiots like you who have the audacity to ask inane questions like this should be locked up in mental institutions for life. But just to fill up space, I'm going to answer you.

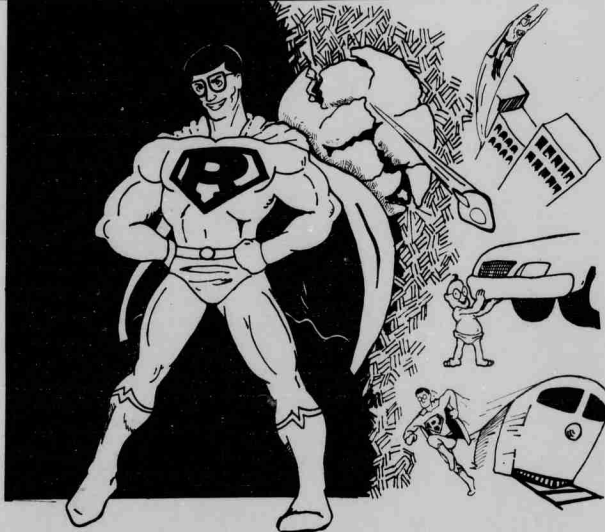
To answer this question appropriately, I annoyed Dr. Steve Reynolds from the physics department (my apologies to him). To begin with, the scientific justification for Superman is nonexistent. You got that? It could never happen! A red sun, a yellow sun, a green sun with purple polka dots — it doesn't matter! The color of the sun has nothing to do with the powers talked about in the comic book. While it might possibly be feasible that he could attain

infrared vision, considering the fact that several insects have this power, the sun has nothing to do with it.

Superman's flying powers, the mechanism of which has never been made clear, are impossible on two accounts. First, if Superman were able to escape/dely the earth's gravitational pull by jumping up, he wouldn't be able to stop, and he'd fly out into space. Secondly, even though he flies around in the same manner that insects do, he does something that they can't do — he suddenly changes directions. Arguably his insides would fly out the side of his body every time he does this.

Concerning super strength: The ability to move huge objects would depend on the mass over gravitational ratio squared, which is why men on the moon can move heavy objects, as the moon has one-sixth of the gravitational pull of the Earth. But even if Krypton had that great of a ratio, after living on Earth his muscles built up from living in that type of atmosphere would dwindle, much the way astronauts weaken after long-term exposure to zero gravity.

Incidentally, you're not the only



MARK S. INMAN AND GEOFF BROOKS/STAFF

imbecile who had this idea. I talked to an obnoxious little editor at D.C. Comics who told me from his cramped Manhattan office with no window that this happened in several Superman issues, and Superman's earth friends did get super powers, but he lost his! Figure that out, Einstein.

Dear R.in R.,
What's the origin behind the "E = mc squared" written in

white bricks to the left of the Free Expression Tunnel?

Joey Wofford
SR Electrical Engineering

Dear Joey,

According our sources — several students who have been in school for at least six years — a tree used to stand in that very spot, but some maniac had etched/imprinted "E = mc squared" on the side

of it, for reasons yet unknown. The tree was uprooted. The plot thickens: the reasons for its destruction are vague. Some say it was transplanted, some say it died, others say it's living in sin with Jim Morrison on a Jamaican beach. As a memoriam, some sweet old campus planner had the words that made the tree famous spelled out in the bricks where the tree once stood. Kinda makes you feel all gushy inside, huh?

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